

November 29

- 7:30 Registration, Exhibits, & Breakfast Buffet**
- 8:30 Welcome (Oklahoma Ballroom E-F)**
Jennifer Castillo, Chairman, Oklahoma Water Resources Board
Governor Kevin Stitt (video)
Senator James Lankford (video)
- Oklahoma Agriculture Update**
Blayne Arthur, Secretary of Agriculture
- Perspectives from Oklahoma Legislators**
Senator Darcy Jech
Representative Dell Kerbs
Representative Carl Newton
Representative John Pfeiffer
Representative Kevin Wallace
- Keynote: Optimizing the Adoption of Water Reuse & Stormwater Management**
Shannon Spurlock, Pacific Institute
- 10:00 Break & Exhibits**
- 10:20 Concurrent Sessions**
- Understanding & Improving Climate Resiliency (University Ballroom A)**
Renee McPherson, University of Oklahoma
Katherine Welch, Oklahoma State University
Brad Rogers, Oklahoma Conservation Commission
Robert Nairn, University of Oklahoma
Kiranmayi Mangalgi, Oklahoma State University
- Collaborative Water Supply Planning Across Sectors (University Ballroom B-C)**
John Rehring, Carollo Engineers
Dani Quissell, North Dakota Water Users Association
Eric Lee, City of Tulsa
Shellie Chard, Oklahoma Department of Environmental Quality
Will Archer, Mountain Park Master Conservancy District
- 12:00 Lunch (Oklahoma Ballroom E-F)**
- Addressing the World's Water Crisis**
Matt Hangen, Water4
- Oklahoma Water Pioneer Awards**
Drew Kersten
Mike Paque
Duane Smith
- 1:45 Concurrent Sessions**
- Student Water Research Lightning Talks (University Ballroom A)**
- Flood Mitigation Planning (University Ballroom B-C)**
Senator Markwayne Mullin (video)
Representative Lonnie Sims
Bobby Howard, Muscogee (Creek) Nation
Marty Chester, FEMA Region 6
Paul Streets, City of Midwest City
- 3:15 Break & Exhibits**
- 3:30 Plenary Session: Advancing Groundwater Solutions Today (Oklahoma Ballroom E-F)**
Kevin Wagner, Oklahoma Water Resources Center
Congressman Frank Lucas (video)
Jerod McDaniel, Panhandle Ag Producer
Mike Shannon, City of Guymon
Daran Rudnick, Kansas State University
Dean Edson, Nebraska Association of Resources Districts
- 5:00 Reception & Poster Presentations (Oklahoma Ballroom G-J)**

November 30

- 7:30 Registration, Exhibits, & Breakfast Buffet**
- 8:30 Welcome (Oklahoma Ballroom E-F)**
Julie Cunningham, Oklahoma Water Resources Board
Congressman Tom Cole (video)
Ken McQueen, Secretary of Energy & Environment
- Water for 2060 Excellence Awards**
Master Irrigator Program, OSU Extension:
Advanced training program for ag producers on irrigation scheduling and crop management.
Johnston Seed Company:
Promotion of cover crops as a conservation tool and contributions to sustainable agriculture.
City of Edmond:
Conversion of system equipment to recycle water and increase efficiency.
Okmulgee County Rural Water District #1:
Implementing multiple strategies to maximize efficiency and sustainability.
- Perspectives from Business & Industry Organization Leaders**
Rodd Moesel, Oklahoma Farm Bureau
Bud Ground, Environmental Federation of Oklahoma
Dalton Miller, The State Chamber
Steve Nikolai, Grand River Dam Authority
- 10:00 Break & Exhibits**
- 10:30 Concurrent Sessions**
- Groundwater Assessment & Outreach (University Ballroom A)**
Zachary Tomlinson, Oklahoma Water Resources Board
Colin Baciocco, U.S. Geological Survey
Lara Fly, Oklahoma Water Resources Board
Jon Fields, U.S. Environmental Protection Agency
Caitlin Barnes, Oklahoma State University
Paul Weckler, Oklahoma State University
- Making the Case for Investment in Water Resources (University Ballroom B-C)**
Congresswoman Stephanie Bice (video)
Jeff Walker, Texas Water Development Board
Trey Lam, Oklahoma Conservation Commission
Dani Quissell, North Dakota Water Users Association
Tony Clyde, U.S. Army Corps of Engineers
- 12:00 Adjournment**



THANK YOU FOR JOINING US.
HAVE A HAPPY AND SAFE HOLIDAY SEASON!



OKLAHOMA
Governor's
**WATER
CONFERENCE**

&
RESEARCH SYMPOSIUM

November 29-30, 2023

WATER MEANS BUSINESS

Hosted by the

Oklahoma Water Resources Board
& Oklahoma Water Resources Center



OKLAHOMA
Governor's
WATER
CONFERENCE

&
RESEARCH SYMPOSIUM

December 7-8, 2022

WATER MEANS BUSINESS


Hosted by the

Oklahoma Water Resources Board
& Oklahoma Water Resources Center

December 7

- 7:30 Registration**
- 8:30 Welcome (second floor)**
Matt Muller, Chairman, Oklahoma Water Resources Board
Governor Kevin Stitt (video)
Matt Dukes, Mayor of Midwest City
- Oklahoma Emergency Drought Cost-Share Program**
Blayne Arthur, Secretary of Agriculture, Food & Forestry
- Oklahoma Drought: Past, Present, & Future**
Gary McManus, Oklahoma State Climatologist
Kevin Kloesel, Oklahoma Climatological Survey
- 10:00 Break, Exhibits, & Student Posters (second floor)**
- 10:30 Innovations in Crop Irrigation (first floor)**
Matt Sanderson, Kansas State University
Bill Golden, Kansas State University
Weston McCary, Kansas Water Office
Jason Warren, Oklahoma State University
- 12:00 Lunch (second floor)**
Oklahoma Water Pioneer Awards
The Honorable Mary Fallin
Charlette Hearne
U.S. Senator James Inhofe (video)
- 2:00 Concurrent Sessions (first floor)**

 **Governor's Water Conference**

 **Research Symposium**

Oklahoma State Flood Plan
Congressman Frank Lucas (video)
Col. Timothy Hudson, Tulsa District Commander, USACE
Jeff Walker, Texas Water Development Board
Mark Gower, Oklahoma Office of Emergency Management
Paul Zachary, City of Tulsa

Agriculture Water Availability & Management

Maryam Samimi, Oklahoma State University
Rio Bonham, Oklahoma State University
Kasra Khodkar, Oklahoma State University
Navdeep Saasan, Oklahoma State University
Aseem Singh, Oklahoma State University

- 3:30 Break, Exhibits, & Student Posters (second floor)**
- 4:00 Keynote (second floor)**
Peter Johnson, Great Lakes St. Lawrence Governors
& Premiers
- 4:45 Reception & Poster Session (second floor)**

December 8

- 7:30 Registration**
- 8:30 Welcome (second floor)**
Julie Cunningham, Oklahoma Water Resources Board
U.S. Senator James Lankford (video)
Ken McQueen, Secretary of Energy & Environment
- Water for 2060 Excellence Awards**
City of Norman
Gary O'Neill
City of Edmond
Oklahoma Strategic Alliance
- Remarks From the Office of Lt. Governor Matt Pinnell**
Kirby Smith, Chief of Staff
- Oklahoma Legislative Perspectives**
Senator Roger Thompson
Senator Dave Rader
Senator Casey Murdock
Senator Darcy Jech
Representative Lonnie Sims
- 10:00 Break & Exhibits (second floor)**
- 10:30 Concurrent Sessions (first floor)**
- Workforce Development**
Markwayne Mullin, U.S. Senator-elect (video)
Don Morris, Oklahoma Works
Robert Keyes, Well Driller & Pump Installer Advisory Council
Sandra Stevenson, Oklahoma Rural Water Association
Paul Streets, Midwest City Public Works
Jessica Brumley & Robin Roberson, East Central University
- Water Quality**
Melissa Reed, Oklahoma State University
Austin Philippe, Oklahoma State University
Grant Graves, University of Oklahoma
Dustin Browning, Grand River Dam Authority
Jason Vogel, University of Oklahoma
- 12:00 Lunch (second floor)**
Congressman Tom Cole (video)
Keynote: John Tracy, Colorado Water Resources Center
- 1:30 Concurrent Sessions (first floor)**
- Source Water Protection**
Mike Paque, Groundwater Protection Council
Shanon Phillips, Oklahoma Conservation Commission
Lindsay Roland, Oklahoma Rural Water Association
Charlene Westmoland, Oklahoma Rural Water Association
Tara Bussing, Oklahoma Department of Environmental Quality
- Water Infrastructure & Reuse**
Robert Nairn, University of Oklahoma
Braden Tanner, University of Oklahoma
Timothy Gualandri, Greeley & Hansen, LLC
Sherry Hunt, USDA-Agricultural Research Service
- 3:00 Break/Governor's Water Conference Adjourns**
OWRB Monthly Meeting (first floor atrium)
- 3:15 Groundwater Sustainability**
Jon Sanford, Oklahoma Water Resources Board
Adam Trevisan, U.S. Geological Survey
Mukesh Mehata, Oklahoma State University
Jacob Kettner, Oklahoma State University
Muhammad Umar Akbar, Oklahoma State University
- 4:45 Research Symposium Adjourns**



Governor's WATER CONFERENCE

&
RESEARCH SYMPOSIUM

41st Oklahoma Governor's Water Conference & Research Symposium

Livestreaming from the Oklahoma State Capitol, Room 100

GWC.live

December 1-2, 2021

Hosted by the Oklahoma Water Resources Board
and Oklahoma Water Resources Center at
Oklahoma State University



OKLAHOMA
Water Resources Board



**OKLAHOMA WATER
RESOURCES CENTER**

December 1, 2021

10:00 Welcome

Matt Muller, Chairman, Oklahoma Water Resources Board
Video Message from Governor Kevin Stitt
Julie Cunningham, Executive Director, Oklahoma Water Resources Board

The One Water Approach: Thinking Bigger About Water

Scott Berry, Director of Policy & Government Affairs, U.S. Water Alliance

Water Coalition Building in North Dakota

Mike Dwyer, North Dakota State Senate/Former Executive Vice President of the North Dakota Water Users Association

2025 Oklahoma Comprehensive Water Plan: Water Means Business

Owen Mills, Director of Planning, Oklahoma Water Resources Board
John Rehring, Vice President, Carollo Engineers

Flood Preparedness: An Overview of State-Level Resilience Plans

Sarah Edwards, Senior Associate, The PEW Charitable Trusts' Flood-Prepared Communities Team

Federal Emergency Management Agency Mitigation Brief

Charles Cook, Floodplain Management & Insurance Branch Chief, Federal Emergency Management Agency Region 6

12:00 Break for Lunch

12:30 Weather & Climate Extremes: Impacts on Water Availability in Oklahoma

Jeffrey Basara, Associate Professor, University of Oklahoma School of Meteorology

1:00 Oklahoma Water Pioneer Awards

Ronnie Graves
Ken Komiske
Linda Lambert

Champions of Oklahoma Water Policy & Legislative Initiatives

Representative Kevin Wallace
Senator Darcy Jech
Senator Susan Paddock
Representative Carl Newton
Representative Paul Roan
Representative Lonnie Sims

Video Message from Congressman Tom Cole

Keynote: Self-driving Water Systems

Branko Kerkez, Arthur F. Thurnau Associate Professor of Civil & Environmental Engineering, University of Michigan

3:30 Adjourn

December 2, 2021

10:00 Video Message from Senator James Lankford

Welcome & Presentation of Oklahoma Water for 2060 Excellence Awards

Ken Wagner, Oklahoma Secretary of Energy & Environment
Julie Cunningham, Executive Director, Oklahoma Water Resources Board

Bartlesville Indirect Potable Reuse Project

Mike Bailey, City Manager, & Terry Lauritsen, Engineering & Water Utilities Director, City of Bartlesville

Innovations in Conservation & Efficiency for Panhandle Ag Producers

Darren Buck, Buck Farms

Choctaw Nation Sustainable Water Planning

Ethan Schuth, Water Resource Manager, Choctaw Nation of Oklahoma

Sustainability and Oklahoma's Small Water & Wastewater Systems

Brandon Bowman, Programs Manager, Oklahoma Rural Water Association

12:00 Break for Lunch

12:30 Video Message from Senator James Inhofe

McClellan-Kerr Arkansas River Navigation System 50th Anniversary & Update from the Tulsa District U.S. Army Corps of Engineers

Col. Scott Preston, Commander & Tulsa District Engineer, U.S. Army Corps of Engineers

1:00 Video Message from Congressman Frank Lucas

Student Water Poster Competition Winners & Master Irrigator Program Update

Kevin Wagner, Director, Oklahoma Water Resources Center

National Water Reuse Action Plan: Building the Technical, Financial, & Institutional Capacity for Communities to Pursue Water Reuse

Sharon Nappier, National Program Leader for Water Reuse, Office of Water, U.S. Environmental Protection Agency

National Trends in Water Reuse: Policy, Technology, & Innovation

Pat Sinicropi, Executive Director, WaterReuse Association

Water Reuse in Norman, Oklahoma

Chris Mattingly, Utilities Director, City of Norman

Effects to Ag Runoff from Effluent Irrigation & Contributions to Surface Water from Multiple Reuse Waters

Jason Masoner, Research Hydrologist, U.S. Geological Survey

Sustainable Water as a Wicked Problem in Oklahoma: The S³OK Project

Hank Jenkins-Smith, George Lynn Cross Research Professor, Department of Political Science, University of Oklahoma

3:30 Adjourn

Water Means Business

DECEMBER 4-5, 2019

Reed Conference Center
Midwest City, OK



www.gwc.live

Hosted by the
Oklahoma Water Resources Board
& Oklahoma Water Resources Center

December 4, 2019

7:30 a.m.—Registration (1st Floor)

8:30—Opening Session (2nd Floor, Reed Ballroom)

Robert L. Stallings, Jr., Chairman
Oklahoma Water Resources Board
Kirby Smith, Field Director
Office of Oklahoma Lieutenant Governor Matt Pinnell
Dean Amhaus, President & CEO
The Water Council

9:45—Break & Exhibits

10:00—Concurrent Sessions (1st Floor)

Water Conference: The Business Case for Building Resilient
Public Water Supply
James Gammill, CEO
Oklahoma Rural Water Association
Matt Foreman, Field Operations Manager, &
Cindy Hubbell, District Manager
Creek County Rural Water District #2
Chris Browning, Utilities Director
City of Oklahoma City
Mike Fina, Executive Director
Oklahoma Municipal League

Research Symposium: Poster Session*

11:30—Luncheon (2nd Floor, Reed Ballroom)

The Honorable Kevin Stitt, Governor of Oklahoma
Oklahoma Water Pioneer Awards
Tom Buchanan, Ann Keeley, & Arnold Miller

Legislative Update

1:15—Concurrent Sessions (1st Floor)

Water Conference: Fueling Industry & Energy Production
Brent Kislung, Executive Director
Oklahoma Department of Commerce
Janet Smith, Manager, Economic & Business Development
Public Service Company of Oklahoma
Kerry Harpole, Manager, Regulatory Policy & Sustainable Practices
Marathon Oil Company
Mark Helm, President & CEO
Dolese

Research Symposium: Water Monitoring & Treatment

Katherine Cook, Biology, OU
Sergio Abit, Plant and Soil Sciences, OSU
Bonheur Tumurere, Civil Engineering & Environmental Sciences, OU
William Marsh, Microbiology & Molecular Genetics, OSU
Diako Mahmodi, Chemical Engineering, OSU

2:45—Break & Exhibits

3:00—General Session (2nd Floor, Reed Ballroom):

Innovating Oklahoma Agriculture Production

Dr. Kevin Wagner, Director
Oklahoma Water Resources Center
Blayne Arthur, Oklahoma Secretary of Agriculture, Food & Forestry
Russ Jackson
2018 Leopold Conservation Award Recipient
Dr. Jason Warren, Plant & Soil Sciences
Oklahoma State University
Dr. Meagan Schipanski, Soil & Crop Sciences
Colorado State University

4:30—Reception (2nd Floor)

**For a complete list of presenters, visit www.gwc.live.*

December 5, 2019

7:30 a.m.—Registration (1st Floor)

8:30—General Session (2nd Floor, Reed Ballroom):
Water Planning for a Sustainable Future

Oklahoma Comprehensive Water Plan Update &
Water for 2060 Excellence Award Presentations
Julie Cunningham, Executive Director
Oklahoma Water Resources Board
Kenneth Wagner, Oklahoma Secretary of Energy & Environment
Colorado River Basin Drought Contingency Plans
Kevin Moran, Senior Director, Colorado River Program
Environmental Defense Fund

10:00—Break & Exhibits

10:30—Concurrent Sessions (1st Floor)

Water Conference: Partners in a Water Secure Future
Anna Wildeman, Principal Deputy Administrator in Water
US Environmental Protection Agency
Bevin Ann Buchheister, Senior Policy Analyst
National Governors Association
Colonel Scott Preston, Commander & Tulsa District Engineer
US Army Corps of Engineers
Dr. Kevin Kloesel, Director
Oklahoma Climatological Survey

Research Symposium: Climate & Land Surface Processes

Jeffrey Basara, Meteorology, OU
Jordan Christian, Meteorology, OU
Jorge Celis, Geography & Environmental Sustainability, OU
Ryann Wakefield, Meteorology, OU
Briana Wyatt, Plant & Soil Sciences, OSU
Noah Brauer, Meteorology, OU

12:00—Luncheon (2nd Floor, Reed Ballroom)

Dr. Thomas Coon, Dean of Agriculture
Oklahoma State University
Dr. Joan Rose, Homer Nowlin Chair in Water Research
Michigan State University

1:30—Concurrent Sessions (1st Floor)

Water Conference: Disrupting the Economic Impacts of Flooding

Trey Lam, Executive Director
Oklahoma Conservation Commission
Sam Marie Hermitte, Assistant Deputy Executive Administrator
Water Science & Conservation, Texas Water Development Board
Lonnie Sims, Oklahoma State Representative, District 68
Janet Meshek, PE, CFM
Oklahoma Floodplain Managers Association

Research Symposium: Education, Outreach & Protecting Our Lakes

Christopher Eck & Binod Chapagain, Oklahoma Water Resources Center
Tiffany Legg, Oklahoma Water Survey
Robert Knox, Civil Engineering & Environmental Sciences, OU
Jennifer Salvo, Civil Engineering & Environmental Sciences, OU
Ahmed Ismail, Geology, OSU
Maxwell O'Brien, Oklahoma Water Survey

3:00—Adjourn Water Conference/Research Symposium Break

3:15—Research Symposium: Water Availability & Use

Chris Neel, Oklahoma Water Resources Board
Walter Chandler, Oklahoma Water Survey
Aseem Singh, Biosystems & Agricultural Engineering, OSU
Jon Sanford, Oklahoma Water Resources Board
Kayla Lockmiller, US Geological Survey
Eric Fiorentino, Oklahoma Water Resources Board

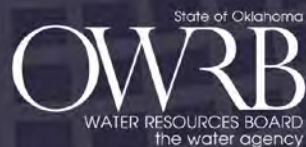
3:30—OWRB Monthly Meeting (Reed Ballroom D)

5:00—Adjourn Research Symposium

CONNECTIONS

39th Annual Oklahoma Governor's Water Conference & Research Symposium

December 5-6, 2018
www.gwc.live



December 5, 2018

7:30 Registration (First Floor)

8:30 General Session (Second Floor, Reed Ballroom)

Welcome: Jason Hitch, Chairman, Oklahoma Water Resources Board (OWRB)
The Honorable Mary Fallin, Governor of Oklahoma
Oklahoma Water for 2060 Excellence Award Presentations
Michael Teague, Oklahoma Secretary of Energy & Environment
Jim Reese, Oklahoma Secretary of Agriculture, Food & Forestry
Fred Morgan, President & CEO, Oklahoma State Chamber
Senator James Lankford (video welcome)

10:00 Break and Exhibits

10:30 Concurrent Sessions (First Floor)

Water Conference: Opportunities in Marginal Quality Water Use

Mike Nickolaus, Groundwater Protection Council
Jason Vogel, Oklahoma Water Survey
Andrea Croskrey, Texas Water Development Board
Mary Elizabeth Mach, Garver

Research Symposium: Poster Presentations*

12:00 Luncheon (Second Floor, Reed Ballroom)

Oklahoma Water Pioneer Awards
State Legislative Update
Congressional Update: Senator James Inhofe (video)

1:30 Concurrent Sessions (First Floor)

Water Conference: Innovations in Agriculture Water Use

Congressman Frank Lucas (video welcome)
Tom Cannon, Farmer, Blackwell, OK
Amy Hays, Noble Research Institute
Jason Warren, Oklahoma State University

Research Symposium: Drought Monitoring & Management

Jad Ziolkowska, Associate Professor, University of Oklahoma
Jeffrey Basara, Associate Professor, University of Oklahoma
Jordan Christian, Graduate Student, University of Oklahoma
Ryann Wakefield, Graduate Student, University of Oklahoma
Ali Ajaz, Graduate Student, Oklahoma State University
Ali Mirchi, Assistant Professor, Oklahoma State University

3:00 Break and Exhibits

3:30 General Session (Second Floor, Reed Ballroom)

Grand River Dam Authority Video Presentation: *Our Borrowed Water*
Congressman Tom Cole (video welcome)
From Sole Source to Diversified: Challenges and Successes
Darren Thompson, San Antonio Water System
Poster Awards: Kevin Wagner, Oklahoma Water Resources Center

5:00 Reception (Second Floor)

*Poster presenters/titles and symposium presentation titles and abstracts are listed on the Oklahoma Water Resources Center website at water.okstate.edu.

December 6, 2018

8:30 General Session (Second Floor, Reed Ballroom)

Welcome: Julie Cunningham, Executive Director, OWRB
Use of Temperature Sensing Via Infrared Camera to Identify Groundwater Interactions With Streams
Shana Mashburn, US Geological Survey
From Filing Cabinets to Tablets: Migrating Digital Workflows
Monique Nava & Chad Holton, Trinity River Authority
The Big Data Revolution: Autonomous Systems & Simulation in Environmental Science
Jamey Jacob, Oklahoma State University

9:45 Break and Exhibits

10:00 Concurrent Sessions (First Floor)

Water Conference: Maximizing Water Storage Capacity
Jimmy Bramblett, Natural Resources Conservation Service
Dave Taylor, Waurika Lake Master Conservancy District
Shanon Phillips, Oklahoma Conservation Commission

Research Symposium: Irrigation Management & Soil Moisture Monitoring

Briana Wyatt, Graduate Student, Oklahoma State University
Mukesh Mehata, Graduate Student, Oklahoma State University
Sumon Datta, Graduate Student, Oklahoma State University
Karthik Ramaswamy, Graduate Student, Oklahoma State University
Christopher Reid, Graduate Student, Oklahoma State University
Lizbeth Pena-Zuniga, Graduate Student, Oklahoma State University

11:30 Luncheon (Second Floor, Reed Ballroom)

Chad Pregracke, Living Lands & Waters

1:00 Concurrent Sessions (First Floor)

Water Conference: Leveraging Partnerships for Water Solutions

Mike Brown, Walton Foundation
Collins Balcombe, US Bureau of Reclamation
Susan Paddock, Oka' Institute

Research Symposium: Groundwater Availability

Jon Sanford, OWRB
John Ellis, US Geological Survey
Chris Neel, OWRB
Byron Waltman, OWRB
Guy Sewell, Oka' Institute/East Central University
Alexander Hess, Graduate Student, University of Tulsa

2:15 Break

2:45 Research Symposium (First Floor)/OWRB Meeting (Second Floor, Joyner)

Research Symposium: Water Use & Management

Robert Nairn, University of Oklahoma
Sean Hussey, Graduate Student, University of Oklahoma
Kyle Murray, Oklahoma Geological Survey
Ronald Miller, Oklahoma State University
Thomas Neeson, Geography & Environmental Sustainability at OU
Chris Eck & Kevin Wagner, Oklahoma Water Resources Center

4:15 Adjourn



Governor Mary Fallin

THE VALUE OF WATER INVESTMENT IN OKLAHOMA

OCT 31-NOV 1, 2017
EMBASSY SUITES, NORMAN

LIQUID ASSETS

October 31, 2017

7:30 Registration

8:30 General Session (Oklahoma Ballroom E-F)

Welcome and Introductions:

Ford Drummond, Chairman, Oklahoma Water Resources Board (OWRB)
The Honorable Mary Fallin, Governor of Oklahoma
Video Welcome from Senator James Lankford

Keynote: Seth M. Siegel, Author, *Let There Be Water: Israel's Solution for a Water-Starved World*

10:00 Break and Exhibits (University Ballroom)

10:30 Concurrent Sessions

Water Conference: Energy Panel (Oklahoma Ballroom G-J)

Michael Teague, Oklahoma Secretary of Energy & Environment
Michael Dunkel, CH2M, Facilitator of the Produced Water Working Group
Nicki Fuller, Executive Director, Southwestern Power Resources Association
Usha-Maria Turner, Director, Environmental Affairs & Federal Public Policy, OGE Energy Corp

Research Symposium: Poster Presentations (see pg. 4)

12:00 Luncheon (Oklahoma Ballroom E-F)

Oklahoma Water Pioneer Awards

OWRB 60th Anniversary Celebration:

Julie Cunningham, Executive Director, OWRB
Dr. Bob Blackburn, Executive Director, Oklahoma Historical Society

Video Welcome from Senator James Inhofe

2:00 Concurrent Sessions

Water Conference: Nonconsumptive Use Panel (Oklahoma Ballroom G-J)

Video Welcome from Congressman Tom Cole
Scott Robinson, Director, Port of Muskogee
Roy Williams, CCE, President & CEO, Greater Oklahoma City Chamber
Dr. Dian Jordan, Sociologist

Research Symposium: Irrigation Water Use Efficiency (see pg. 5)

3:00 Break and Exhibits (University Ballroom)

3:30 General Session (Oklahoma Ballroom E-F)

Gary McManus, Oklahoma State Climatologist
Col. Christopher Hussin, Tulsa District Commander, USACE
Kenneth Wagner, Senior Advisor for Regional & State Affairs, US EPA

Poster Awards (Provided by the USGS via the Water Resources Research Act):

Dr. Kevin Wagner, Director, Oklahoma Water Resources Center (OWRC)

5:00 Reception (University Ballroom)

November 1, 2017

7:30 Registration

8:30 General Session (Oklahoma Ballroom E-F)

Welcome: Ford Drummond, Chairman, OWRB

Keynote: Layne Carter, Systems Engineer, NASA Marshall Space Flight Center Water for 2060 Excellence Awards:

Julie Cunningham, Executive Director, OWRB
Jim Reese, Oklahoma Secretary of Agriculture
Michael Teague, Oklahoma Secretary of Energy & Environment

10:00 Break and Exhibits (University Ballroom)

10:30 Concurrent Sessions

Water Conference: Municipal & Industrial Panel (Oklahoma Ballroom G-J)

Matt Newman, Tulsa Regional Water Policy Task Force
Robert Moore, Manager, Marshall County Water Corporation
Kim Peterson, Mayor, Guymon, OK
Marc Hoss, Plant Manager, Koch Fertilizer, Enid, OK

Research Symposium: Role of University Water Centers & Institutes/ Federal & State Programs to Support Water Management (see pg. 6)

Oklahoma Bar Association CLE (Sooner Room)

12:00 Luncheon (Oklahoma Ballroom E-F)

Welcome: Kevin Wagner, Director, OWRB

Keynote: Dr. Todd Halihan, Professor of Hydrogeophysics, OSU 4H Speech Contest Winner

2:00 Concurrent Sessions

Water Conference: Agriculture Panel (Oklahoma Ballroom G-J)

Video Welcome from Congressman Frank Lucas
Trey Lam, Executive Director, Oklahoma Conservation Commission
Tracy Streeter, Director, Kansas Water Office
Jimmy Emmons, President, Oklahoma Association of Conservation Districts
Dr. Dan Sebert, Executive Director, National Watershed Coalition

Research Symposium: Surface Water Assessment & Management (see pg. 6)

3:00 Break/Adjourn Water Conference

3:30 Research Symposium: Groundwater Hydrologic Investigations (see pg. 7)



Seth M. Siegel, Author

Seth M. Siegel is the author of *Let There Be Water: Israel's Solution for a Water-Starved World*. He is a businessman, activist, and writer. His essays on business, political, and cultural issues have appeared in the *New York Times*, the *Wall Street Journal*, the *Los Angeles Times*, and other publications around the world. Siegel has often appeared on television and has been widely quoted in major print media. He is a member of the Council on Foreign Relations.



Layne Carter, NASA

Layne Carter is a Systems Engineer at NASA's Marshall Space Flight Center. During his 29 years at NASA, he has worked on the development, design, delivery, and operation of the International Space Station (ISS) Water Recovery System, which includes the Water Processor Assembly and Urine Processor Assembly. In addition, he is the co-lead for NASA's Advanced Exploration Systems Wastewater Processing and Water Management team, which is responsible for developing the technologies to be used for NASA's future manned missions.

OKLAHOMA WATER PIONEERS

Glen Cheatham
Jim Townsend
Pete White

Weathering Oklahoma's Extremes

October 11-12, 2016

Keynote Speakers



Robert Glennon is one of the nation's preeminent experts on water policy and law. The recipient of two National Science Foundation grants, Glennon serves as an advisor to governments, corporations, think tanks, law firms, and NGOs looking to solve serious challenges around water sustainability and planning.

Glennon is the author of *Unquenchable: America's Water Crisis and What To Do About It*, which has become a go-to resource for environmental policy stakeholders nationwide. *Unquenchable* received a Rachel Carson Book Award for Reporting on the Environment from the Society of Environmental Journalists. He is also the author of *Water Follies: Groundwater Pumping and the Fate of America's Fresh Waters*.

In 2014, Glennon and two co-authors collaborated with the Hamilton Project at the Brookings Institution to explore solutions to broken federal and state laws that are contributing to worsening water shortages in California and other Western states. Their groundbreaking report, "Shopping for Water: How the Market Can Mitigate Water Shortages in the American West," received widespread national attention and is viewed by many as a game-changer for water policy moving forward.



In addition to leading KOCO's weather team, Damon Lane has served as a guest meteorologist for ABC's *Good Morning America* and is a frequently featured speaker at weather conferences around the country, where he shares his experience forecasting one of the nation's most active weather regions.

In 2016, Lane was featured in the nationally televised ABC 20/20 primetime special "In An Instant" about the 2013 tornado outbreak that impacted Moore, Oklahoma. He shared his personal experiences covering the 2013 tornado outbreak that impacted his home town of Moore. The massive tornado struck his own neighborhood as he covered it live on-air. His wife rode out the storm in their shelter with the family dogs while many nearby homes were damaged or destroyed. Lane has been active in community recovery efforts ever since. His coverage of the Tornado Outbreak was nominated for an Emmy award.

Previously, Lane served as Chief Meteorologist at KTXS-TV in Abilene, TX, forecasting severe weather on the southern edge of "Tornado Alley." Lane was born and raised in Northern Virginia and was drawn to science and weather from a young age. Lane earned two bachelor degrees in college. After graduating in less than four years in Communications/Mass Media from Old Dominion University, Lane earned his Bachelor of Science in Atmospheric Sciences/Meteorology from The University of North Carolina, Asheville.

Water Pioneers



Robert Henry has long been involved with water issues in our state. While a member of the Oklahoma state legislature (from 1976 to 1986), he worked on water law under the mentorship of well-known Oklahoma Water Law expert and OU Law Professor Joe Jarick.

Henry was elected Attorney General of Oklahoma in 1986 and served until 1991. He led efforts to create the Environmental Awareness Council, which met regularly to monitor matters of environmental concern and to educate both the public and lawmakers about the importance of environmental issues in Oklahoma.

As Attorney General, Henry officially led the fight to preserve our state's scenic rivers from degradation. The City of Fayetteville had created a ten-mile canal that would be used to discharge its treated effluent, which would eventually end up in the Illinois River in Oklahoma. The battle led to a victory in the Tenth Circuit Court of Appeals but ended up in a divided decision at the U.S. Supreme Court. While the divided Supreme Court ultimately allowed Fayetteville to discharge its wastewater into the Illinois River watershed, the decision also established the precedent that upstream states must meet downstream states' water quality standards—a critically important factor in protecting water quality on interstate streams across the nation.



Frank Keating was sworn in as Governor of Oklahoma in 1995 and served two terms. In 1997, Keating formed the "Animal Waste and Water Quality Protection Task Force"—a special task force he appointed that ultimately led to legislation to impose regulations on the state's growing commercial animal feeding operations in an effort to protect water quality. The resulting laws and regulations were recognized as the most stringent in the country at the time.

In 2000, Keating created the Tar Creek Superfund Task Force in order to gather facts and find solutions to the enormous environmental threats posed by the nation's most hazardous Superfund Site—the Tar Creek Superfund Site in northern Ottawa County. The task force's final report ultimately recommended relocation of the most impacted residents, as well as the use of constructed wetlands to expedite water quality improvement in Tar Creek and other tributaries of Grand Lake—a remediation effort that is still underway today.

In 2001, it was brought to the attention of Keating and other state leaders that the Illinois River's status as a Scenic River was seriously threatened by excess nutrients. Without intervention, the Illinois River's exceptional ecological and recreational significance was in jeopardy. In response, the Oklahoma Water Resources Board (OWRB) adopted its Water Quality Standards a total phosphorus criterion of .037 mg/L for Scenic Rivers, which was consequently approved by Gov. Keating despite some controversy. Fifteen years later, this cutting-edge standard is being implemented, and water quality improvements have been measured in the Illinois River watershed.

Tuesday, October 11	
8:00 Registration	
8:30 Opening Session	
<p>Welcome Linda Lambert, Chairman, Oklahoma Water Resources Board</p> <p>State of Oklahoma, Choctaw Nation of Oklahoma, Chickasaw Nation, City of Oklahoma City Water Settlement Governor Mary Fallin, State of Oklahoma Chief Gary Button, Choctaw Nation</p> <p>Water Settlement Roundtable Michael Burrage, Attorney for the Choctaw & Chickasaw Nations and former Federal District Court Judge Stephen Greetham, General Counsel to the Chickasaw Nation Department of Commerce Glenn Coffee, Special Counsel to Governor Mary Fallin and former Secretary of State Mike Hunter, First Assistant Attorney General, State of Oklahoma J.D. Strong, Executive Director, Oklahoma Water Resources Board</p>	
10:00 Break	
10:15 Regional Water Planning Roundtable	10:15 Café Style Poster Session
<p>David Berrong, Mayor-Elect, Clinton, OK Foss Reservoir Master Conservancy District Jed Winters, Water Task Force Co-chair Southwest Water Supply Action Plan Alan Riffe, City Manager, Woodward, OK Northwest Oklahoma Water Action Plan Cody Holcomb, City Manager, Ada, OK Arbuckle-Simpson Drought Contingency Plan</p>	<p>Moderator: Dr. Garey Fox, Director, Oklahoma Water Resources Center</p> <p>Riley Jones Beatriz Gallucci Mazziero Sonisa Sharma Yan Zhou Charles Fontanier Curt Dikes Melissa Reed Karthik Ramaswamy Manabendra Saharia Holly Enlow Kathryn Wenger Russell Doughy Joanna Quiah Andrew Baird Shuhao Yu Alex McLemore Chen Xu Lexi Freeman John McMaine Briana Wyatt</p> <p>Visit GWC Live to view poster titles.</p>
12:00 Luncheon	
<p>Legislative and Executive Update Michael Teague, Oklahoma Secretary of Energy and Environment Bryce Mariatt, Oklahoma State Senate Congressman Tom Cole</p> <p>Oklahoma Water Pioneer Awards Robert Henry, President, Oklahoma City University Frank Keating, Governor of Oklahoma, 1995-2002</p>	
2:00 Water for 2060 Magazine	2:00 Climate Variability and Drought
<p>Overview JD Strong, OWRB</p> <p>Produced Water Working Group Update Michael Durkin, CH2M</p> <p>Showcase of Other Initiatives John Rehberg, Carollo</p>	<p>Moderator: Phil Alderman, Oklahoma State University (OSU) Rainfall Timing Extremes, Albert Sutherland, Oklahoma Mesonet/OSU Estimating Drought-Influenced Streamflow Exceedance Curves in Oklahoma, Ronald Miller, OSU Forests Bring Water to Oklahoma, Holden Zhang, The University of Tulsa Current State of Climate Education in the United States: Are Graduate Students Being Adequately Prepared to Address Climate Issues? Emma Kutzer, Oklahoma EPSCoR/OSU</p>
3:15 Break	
3:30 Joint Session	
<p>Keynote: Our Future in a Water-Stressed World Dr. Robert Glennon, University of Arizona</p> <p>Poster Contest Winners</p> <p>4-H Speech Contest Winners</p>	
5:00 Reception	

Wednesday, October 12	
8:00 Registration	
8:30 Opening Session	
<p>Welcome Linda Lambert, Chairman, Oklahoma Water Resources Board</p> <p>Keynote: Why We Don't Understand Drought Damon Lane, Chief Meteorologist, KOCO 5 First Alert Weather</p> <p>State and National Outlook Gary McManus, State Climatologist</p> <p>Climate Monitoring and Prediction Tools Dr. Derek Arndt, NOAA/NCEI Climate Monitoring Chief</p>	
10:00 Break	
10:15 Partners in Drought and Flood	10:15 Stormwater and Streamflow
<p>Col. Christopher Musin Commander/District Engineer USACE Tulsa District</p> <p>Bill Honker EPA Region 6 Water Division Director</p> <p>Collins Balcombe USBR Supervisory Program Coordinator</p>	<p>Moderator: Lucie Guertault, OSU No Adverse Impact: The State of the Art in Stormwater Management, Ronald Flanagan, Flanagan & Associates, LLC Evaluation of aged, fly ash amended filter media to remove phosphorus from stormwater, Glenn Brown, OSU Non-contact remote sensing of streamflow, Jonathan Gourley, NOAA/National Severe Storms Laboratory</p> <p>Groundwater Moderator: Ron Miller, OSU Petroleum Release Assessment and Impacts of Weather Extremes, James Weaver, USEPA Office of Research and Development Carbonate mineral dissolution drives hazardous chromium occurrence in the Central Oklahoma Aquifer, Andrew Ewood Madden, University of Oklahoma (OU) Groundwater and Soil Moisture: Indicators and Predictors of Long-Term Drought in Oklahoma, Jad Ziolkowska, OU</p>
12:00 Luncheon	
<p>Oklahoma Water Resources Center Updates and Announcements Screening of "Thirsty Land" and Q&A with Producer/Director Conrad Weaver</p>	
2:00 Break	
2:30 OWRB Monthly Meeting	2:00 Reservoirs
	<p>Moderator: Deidre Smith, Oklahoma Department of Transportation Application of the 3D model ELCOM-CAEDYM to estimate phosphorus load reduction needs for Lake Wister, Oklahoma, Thad Scott, Baylor University Assessing and mitigation source water ecosystem vulnerability, Steven D. Patterson, Bio + Design Relationship Between Landsat Spectral Reflectance and Water Quality at Different Depths in Grand Lake, Oklahoma, Abubakar Mansaray, OSU Numerical modeling of sedimentation in Fort Cobb Reservoir, Lucie Guertault, OSU</p>
3:15 Break	
3:30 Irrigation, Recharge, and Reuse	3:30 Break
<p>Moderator: Dave Lambert, OSU Algal Wastewater Remediation, Nurhan Durdan, OSU Regional Transfer vs. Water Reuse: A Comparison of Cost, Energy, and GHG Emissions, Jim F. Chamberlain, OU Western OK Irrigation Water and Energy Audits: Findings, Recommendations and Educational Materials - Preliminary Results, Robert Frazer, OSU Application of Soil-Water-Balance Code to Estimate Aquifer Recharge in Truckee Meadows, Nevada for Groundwater Flow Modeling, Michael Keester, LBC-Guyton Associates On-Farm Evaluation of Water Dynamics around Subsurface Drip Irrigation, Jason Warren, OSU</p>	

36th Annual Oklahoma Governor's Water Conference and Research Symposium



December 1-2, 2015
Embassy Suites Hotel & Conference Center
Norman, Oklahoma

Tuesday, December 1

7:30 Registration

8:30 Joint Session

Welcome
Linda Lambert, OWRB Chairman

Keynote
Dr. Peter Gleick, President and Co-Founder of the Pacific Institute
Water for 2060 Overview
J.D. Strong, OWRB Executive Director



Dr. Peter Gleick
Dr. Peter Gleick is a world renowned expert, innovator, and communicator on water and climate issues. In 1987 he co-founded the Pacific Institute, a global water think tank that provides science-based thought leadership with active outreach to influence local, national, and international efforts in developing sustainable water policies.

10:15 Break

10:30 Regional Water Planning

Northwest Oklahoma Water Action Plan
Brent Kislring, Executive Director, Enid Regional Development Alliance
Southwest Oklahoma Water Supply Action Plan
Brian Bush, President and CEO, Altus Chamber of Commerce

Regionalization

South Delaware County Regional Water Authority
Jay Updike, President, Holloway, Updike and Bellen, Inc.
Gore & Sequoyah County Rural Water District #5
Horace Lindley, Public Works Administrator, City of Gore

10:30 Café Style Poster Session

Moderator: Dr. Garey Fox, Director, Oklahoma Water Resources Center

Somala Amir	Saraj Yasochi	Andrea Parrington
Caillier Barnes	Ashah Khalid	Joseph Patton
Nicole Colston	Kate Klovan	Heather Rubin
Jon Daniels	Whitney Lisenbey	Salma Alrasuladeh Ghadransini
Carl Dilkes	Dustin Livingston	Reuben Reyes
Jingma Dong	Brigitte Nizalero	Blanca Shirima Ashaya
Holly Enlow	Alan McLemore	Ben Tang
Paul Hanigan	John McMaine	Briana Wyatt
Riley Jones	Michelle Melione	Yan Zhou

Go to www.owrb.ok.gov/GWC/mobile/posters.html to view poster titles.

12:00 Luncheon

Legislative Update
Mike Schulz, Majority Floor Leader, Oklahoma State Senate
Oklahoma Water Pioneer Awards
Richard C. Seybolt, Bill Sims

Honorary Oklahoma Water Pioneer Awards
Bob Chipman and Trudy Rigney, In Memoriam





Senator Mike Schulz
Richard Seybolt
Bill Sims

1:30 Conservation in Other States

Advancing Conservation Goals: The San Antonio Example
Karen Guo, Conservation Director, San Antonio Water System (SAWS)
Innovative Conservation Approaches in Southern Nevada
Doug Bennett, Conservation Manager, Southern Nevada Water Authority
Vision for the Future of Water in Kansas
Tracy Streetz, Director, Kansas Water Office

1:30 Drought and Climate Change

Moderator: Al Sutherland, Mesonet Agricultural Coordinator, Oklahoma State University (OSU)
New Insights into Drought Evolution and Recovery in the Great Plains
Jeffrey Basso, University of Oklahoma (OU), Co-Author: Jordan Christian & Rotarino Christian
Drought-Influenced Low-Flow Non-Exceedance Plots for Selected US Geological Survey (USGS) Gauges in Oklahoma
Ron Miles, OSU, Co-Author: Garey Fox
Hydrogeology and Simulated Effects of Future Water Use and Drought for the North Fork Red River Alluvial Aquifer, Southwest Oklahoma
Janet Smith, US Geological Survey (USGS)
Threats to the Luper-Altus Irrigation District: Untangling the Effects of Drought, Land Use Change, and Groundwater Development
Tyson Ochsner, OSU, Co-Author: Erik S. Fyfe & Shannon Badcoe Wynn
Projecting Hydrologic Impacts on the Canadian River Ecosystem under Future Climate Change Scenarios
Staver Voss, OLI, Co-Author: William Andrews, Shannon Brewer, Thomas Worthington, Jonathan Kimmer, & Jennifer Lucas

3:00 Break

3:15 Joint Session

Gubernatorial Welcome and Address
Governor Mary Fallin

Education and Outreach Campaigns for Water Conservation and Reuse
Ken Kamiske, Utilities Department Director, City of Norman
Melissa Meeker, Executive Director, WaterReuse Association
Justin Moss, Associate Professor, Oklahoma State University
Bret Weingart, Assistant Director, Oklahoma City Utilities

Poster Contest Winners
Dr. Garey Fox, Director, Oklahoma Water Resources Center



Governor Mary Fallin
Oklahoma elected Mary Fallin as its first female governor in 2010. She was reelected in 2014 to her second term by a 15-point margin, carrying 71 out of 77 Oklahoma counties. Prior to her election, she served two terms in the U.S. House of Representatives. She also served two terms as an Oklahoma state representative before her election in 1995 as Oklahoma's first Republican and first female lieutenant governor.

5:00 Reception
Hosted by the Oklahoma Rural Water Association and sponsored by Bank of America/Merrill Lynch and Mustang Brewing Company

Wednesday, December 2

8:00 Registration

8:30 Joint Session

Welcome
Michael Teague, Oklahoma Secretary of Energy and Environment

Federal Partnerships
Col. Richard Pratt, Tulsa District Engineer, U.S. Army Corps of Engineers
Ron Curry, Region 6 Administrator, U.S. Environmental Protection Agency
Drought Reports and Forecast
Courtney Black, National Integrated Drought Information System (NIDIS)
Gary McManus, Oklahoma State Climatologist





Sec. Michael Teague
Col. Richard Pratt
Ron Curry

10:15 Break

10:30 Drought-Proofing Gazette

Water Loss Audits and Leak Detection
Brandon Bowman, Oklahoma Department of Environmental Quality
Richard Desha, Oklahoma Rural Water Association

Fort Sill Nonpotable Reuse Project
Ronnie Graves, General Manager, American Water

Energy Water Initiative Report: Recycling Flowback and Produced Water
Michael Dunkel, Vice President, CH2M

10:30 Water Availability, Demand, and Use

Moderator: Dr. Saleh Taghvaeian, OSU
Is the demand for recreation at Grand Lake affected by swim warnings and do visitors value improvements in water conditions?
Max Melstrom, OLI, Co-Author: Tracy Boyer, Susan Brand, & Art Stoever
Water Reservoir Data Visualization Tool
Shawn Brown, OSU
Hydrologic Investigation and Numerical Groundwater-Flow Model of the Canadian River Alluvial Aquifer
Shawn Melstrom, USGS, Co-Author: John Ellis
Proximity of Private Domestic Wells and Underground Storage Tank Sites in Oklahoma
Jim Weaver, US Environmental Protection Agency (EPA), Co-Author: Andrew Murray & Fran Kravens
Using Public Data to Quantify Oil and Gas Impact to Oklahoma's Water Resources
Shawn Brown, OSU, Co-Author: Nelly Ruiz

12:00 Luncheon

4-H Speech Contest Winners
Bayli Hyde and Tyler Zwick
Assessing the Future of the High Plains Aquifer
James Butler, Jr., Kansas Geological Survey

1:30 Aquifer Storage and Recovery (ASR)

Wichita's Equus Beds ASR Experience
Brian Meier, Associate Environmental Engineer, Burns & McDonnell
A Texas Regulator's Perspective
Dr. Robert Mace, Deputy Executive Administrator, Texas Water Development Board

ASR Challenges in Oklahoma
Dan Yates, Associate Executive Director, Groundwater Protection Council

A National Perspective on ASR
David Pyle, President, ASR Systems

1:30 Research Funding and Partnership Opportunities

Moderator: Dr. Garey Fox, OWRB
Bureau of Reclamation (USBR) Research Funding and Partnership Opportunities
Collins Colcombe, USBOR
USGS Research Needs in Oklahoma
William Andrews, USGS
Oklahoma Water Resources Board (OWRB) Research Needs
Derek Smolles, OWRB
EPA's Safe & Sustainable Water Resources Research Program
Joe Williams, EPA
USGS 104b and 104g Funding Opportunities
Garey Fox, OWRB

Research Funding Highlight in Oklahoma

Moderator: Dr. Garey Fox, OWRB
The Influence of Crop Row Configuration on Yield using Subsurface Drip Irrigation
Jason Warren, OSU
Maximizing the Value of Remaining Groundwater
Art Stoecker, OSU

3:00 Break

3:30 OWRB Regular Monthly Meeting (Sooner Meeting Room)

3:30 Featured Session on NSF EPSCoR Project

Moderator: Erinna Kuster, Program Coordinator, OK EPSCoR
Integrating Socio-Cultural Community-Level Research into Water and Climate Research in Oklahoma's 2013-18 NSF EPSCoR Research
Jack Friedman, OLI, Co-Author: Michael Stanton, Tony Wanklyn, & Allison Layton
Groundwater Shortage as a Result of Drought in Oklahoma and Potential Socio-Economic Implications
Paul Zwickhamer, OLI, Co-Author: Shanon Hayes
Water Policy and Governance Networks in OK: A Pathway to Enhance Resilience to Climate Change
Beth Caniglia, OLI, Co-Author: Beatrice Friml, Bridget Kerner, & Tammy Mck
Demand for Water-based Recreation: The Impact of Water Levels and Climate Variation in Oklahoma
Tracy Boyer, OSU, Co-Author: Max Melstrom, Larry Sanders, & Brandon Daniels
Dynamic Maps of Open Surface Water Bodies in Oklahoma at 30-m Spatial Resolution during 1984-2014
Xiangping Xiao, OLI, Co-Author: Michael Almaraz, Binwei Dong, & Zhenshan Zou

35th Annual

Oklahoma Governor's Water Conference & Research Symposium



October 22-23, 2014

Cox Convention Center, Oklahoma City

October 22, 2014

7:30 Registration

8:30 Plenary Session *Great Hall C*

Welcome and Introductions

Rudy Herrmann, Chairman, Oklahoma Water Resources Board
Oklahoma Lieutenant Governor Todd Lamb

Keynote: The Las Vegas Story: Adapting to a New Normal

Pat Mulroy, Senior Fellow, Climate Adaptation & Environmental Policy, Brookings Mountain West; Maki Distinguished Faculty Associate, Desert Research Institute

State of the State's Water

J.D. Strong, Executive Director, Oklahoma Water Resources Board

10:00 Break and Exhibits *Great Hall D & E*



Lt. Gov. Todd Lamb

Oklahoma Lieutenant Governor Todd Lamb was elected to office in November of 2010. Prior to his election, he served for six years in the Oklahoma Senate, and in 2009 became the state's first Republican Majority Floor Leader. In addition to serving as Chairman of the state's Tourism and Recreation Commission, he serves as Past Chairman of the National Lieutenant Governor's Association Executive Committee, Vice Chair of the Republican Lieutenant Governor's Association (RLGA), and Vice Chair of the Aerospace States Association.



Pat Mulroy

Pat Mulroy served as general manager of the Las Vegas Valley Water District from 1989 until retirement in 2014. From 1993 until retirement she also served as general manager of the Southern Nevada Water Authority (SNWA), where she was responsible for acquiring, treating, and delivering water to the region. Mulroy was a principal architect of the Authority, which allowed Southern Nevada not only to weather the stresses of growth, but also to thrive during one of the worst droughts of record in the Colorado River basin.

10:30 Regional/Local Planning for Future Droughts *Meeting Rooms 16-18*

Kim Meek, City Manager, City of Guymon
Ken Komiske, Director of Utilities, City of Norman
Will Archer, Manager, Mountain Park Master Conservancy District
Robert Moore, General Manager, Marshall County Water Corporation
Brent Kislung, Executive Director, Enid Regional Development Alliance

12:00 Lunch *Great Hall C*

Oklahoma Water Pioneer Awards

Jack W. Keeley
Mike Thralls

U.S. Congressional Update

Rep. James Lankford
Rep. Frank D. Lucas
Rep. Markwayne Mullin



Rep. Lankford Rep. Lucas Rep. Mullin

1:30 Oklahoma Drought Update *Meeting Rooms 16-18*

Gary McManus, Oklahoma State Climatologist
Kevin Kloesel, Director, Oklahoma Climatological Survey

2:15 Meeting Water Reuse Challenges *Meeting Rooms 16-18*

Developing an Effective PR Campaign

Patricia Tennyson, Katz & Associates

Legal and Regulatory Hurdles for Wichita Falls, TX

Brad Castleberry, Lloyd Gosselink

3:00 Break and Exhibits *Great Hall D & E*

3:30 Oklahomans Solving Global Water Crises *Meeting Rooms 16-18*

David Sabatini, Director
OU Water Technologies for Emerging Regions (WaTER) Center
Ken Surritte, President
WATERisLIFE
Richard Greenly, Board Chair
Water4

5:00 Reception *Great Hall D & E Foyer*

October 23, 2014

7:30 Registration

8:30 Plenary Session *Great Hall C*

Welcome and Introductions

Rudy Herrmann, Chairman, Oklahoma Water Resources Board
Michael Teague, Oklahoma Secretary of Energy & Environment

Keynote: Governor Mary Fallin

Federal Updates

James Allard, Deputy Area Manager
United States Bureau of Reclamation, Oklahoma-Texas Area Office
Colonel Richard Pratt, Commander & District Engineer
United States Army Corps of Engineers, Tulsa District
Sam Coleman, Deputy Regional Administrator
United States Environmental Protection Agency, Region 6

10:00 Break and Exhibits *Great Hall D & E*



Governor Mary Fallin

Oklahoma elected Mary Fallin as its first female governor in 2010. Prior to her election, she served two terms in the U.S. House of Representatives. She also served two terms as an Oklahoma state representative before her election in 1995 as Oklahoma's first Republican and first female lieutenant governor.

Governor Fallin demonstrated her dedication to the stewardship of Oklahoma's invaluable water resources by signing the Water for 2060 Act into law and more recently by pledging \$1.5 million in drought grants for projects highlighting responsible use of water.



James Allard



Col. Richard Pratt



Sam Coleman

10:30 Water Fuels Oklahoma's Economy *Meeting Rooms 16-18*

Larry Parman, Oklahoma Secretary of Commerce
Michael Teague, Oklahoma Secretary of Energy & Environment
Blayne Arthur, Deputy Commissioner
Oklahoma Department of Agriculture, Food & Forestry
Scott Robinson, Port Director, Port of Muskogee
Kris Marek, State Parks Director
Oklahoma Tourism and Recreation Department
Ken Cunningham, Assistant Chief of Fisheries
Oklahoma Department of Wildlife Conservation

12:00 Lunch *Great Hall C*

4-H Speech Contest Winners

Hadley Griffith, Pottawatomie County
Bayli Hyde, Alfalfa County

Poster Contest Winners

High frequency water quality data: is this really necessary?
Dr. François Birgand, Associate Professor, North Carolina State University

1:30 Water Rights Administration in Oklahoma: Broken or Just Right?
Meeting Rooms 16-18

Dean A. Couch, Esq., GableGotwals
James R. Barnett, Esq., Doerner, Saunders, Daniel & Anderson
Mike Fuhr, State Director, The Nature Conservancy, Oklahoma Chapter
Mike Mathis, Regulatory Affairs Adviser, Continental Resources
Will Archer, Manager, Mountain Park Master Conservancy District

2:45 Conference Wrap-Up *Meeting Rooms 16-18*

Rudy Herrmann, Chairman, Oklahoma Water Resources Board

3:00 Adjournment

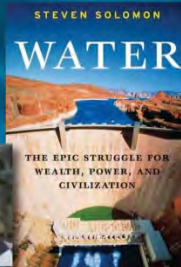
3:30 Monthly OWRB Meeting *Meeting Rooms 14-15*

THE FUTURE ON TAP



Keynote Speaker: Steven Solomon

In *Water: The Epic Struggle for Wealth, Power, and Civilization*, Steven Solomon offers the first-ever narrative portrait of the power struggles, personalities, and breakthroughs that have shaped humanity from antiquity's earliest civilizations, the Roman Empire, medieval China, and Islam's golden age to Europe's rise, the steam-powered Industrial Revolution, and America's century. According to Solomon, freshwater scarcity is one of the twenty-first century's decisive, looming challenges and is driving the new political, economic, and environmental realities across the globe.



2013 Oklahoma Water Pioneers

Each year, the Oklahoma Water Pioneer Award is presented to those men and women who have made significant lifetime contributions to the planning, development, management, and conservation of Oklahoma's water resources. This year's recipients are Bob Blazs and Patty Eaton.



Bob Blazs served for two decades as Data Chief and Assistant District Chief of the U.S. Geological Survey's Oklahoma District. In 2010, he was appointed by the President as Federal Commissioner to the Canadian River Compact. He retired from the USGS in 2010 after more than 43 years of service.



Patty Eaton was Oklahoma's first Secretary of Environment, serving jointly as Executive Director of the Oklahoma Water Resources Board (1990-95). She is a long-time board member of the Tulsa Metropolitan Utility Authority, and served six years as the Tulsa Water and Sewer Commissioner.

Water for 2060

With passage of the "Water For 2060 Act" in 2012, Oklahoma established a goal of consuming no more fresh water in 2060 than is consumed today, reflecting a fundamental Oklahoma Comprehensive Water Plan (OCWP) recommendation. For more information, please visit www.owrb.ok.gov/2060.



October 22-23, 2013
Sheraton-Reed Conference Center
Midwest City, Oklahoma

Tuesday, October 22

7:30	Registration & Oklahoma Water Resources Center Poster Viewing	
8:30	PLENARY SESSION Welcome Rudy Herrmann, Chairman, Oklahoma Water Resources Board L.L. Governor Todd Lamb Water Issues in Region Six Ron Curry, Administrator, EPA Region Six Keynote: <i>Water: The Epic Struggle for Wealth, Power, and Civilization</i> Steve Solomon, Author	
10:00	Break, Book Signing, & OWRC Poster Viewing	
10:30	WATER FOR 2060: PREPARING FOR THE NEXT DROUGHT Drought Impacts and Outlook Vivian Daniels, National Integrated Drought Information System Drought Mitigation Tools Collins Balcombe, Bureau of Reclamation Minimizing Drought Impacts through the Water Plan J.D. Strong, OWRC Executive Director	10:30 SYMPOSIUM SESSION 1: UPDATES AND NEW DEVELOPMENTS Session Chair: Derek Smithee, OWRB Strategies for Compliance with Disinfectants & Byproducts Rule in WTP Dr. Brian Wente, Professional Engineering Consultants How the Corporation Commission Can Help RWD and Town Water Systems Patricia Billingsley, Oklahoma Corporation Commission The Changing Dynamics of Oklahoma Water Ken Senour and Larry Roach, Guernsey Water Research Issues in Hydraulic Fracturing: The Economist Perspective Dr. Larry Sanders, OSU
12:00	LUNCHEON Luncheon Address Michael Teague, Oklahoma Secretary of Energy & Environment Coli Richard A. Pratt, Tulsa District Engineer, U.S. Army Corps of Engineers Oklahoma Water Pioneer Awards	
1:30	OKLAHOMA WATER MAGAZINE Navigation in Oklahoma Bob Porras, Tulsa Port of Catoosa Water Provider Issues & State Question 784 Bill Sims, Oklahoma Rural Water Association Water for Recreation & Tourism Gene Gilliland, Oklahoma Department of Wildlife Conservation OCWP Instream Flow Workgroup John Rehner, Carolo Engineers, Inc. Groundwater Monitoring Assessment Program Derek Smithee, OWRC	1:30 SYMPOSIUM SESSION 2: AQUATIC SPECIES Session Chair: Dr. Jim Long, US Fish & Wildlife Service/OSU Effects of Water Quantity on Fish Communities in the Upper Cimarron River Dr. Jim Long, US Fish & Wildlife Service/OSU Mercury Exposure from Fish Consumption Among Fishers in Grand Lake Dr. Robert Lynch, OU Health Sciences College Freshwater Mussels and Environmental Flows in Southeastern Oklahoma Dr. Caryn Vaughn, Oklahoma Biological Survey/OU Water Quantity and Quality Impacts to an Economically Important Fishery Jim Burroughs, ODWC
3:00	Break & OWRC Poster Viewing	
3:30	ROUNDTABLE DISCUSSION Conjunctive Water Management Moderator: J.D. Strong Nathan Kuhnert, Devon Energy Corporation John K. Simpson, Albany, Boise, Idaho Jerry Wiebe, Farmer/Rancher, Hooker, Oklahoma Will Archer, Mountain Park Master Conservancy District	3:30 SYMPOSIUM SESSION 3: GROUNDWATER Session Chair: Mr. David Mott, USGS Oklahoma Water Science Center Hydrologic Investigation Update of the Rush Springs Aquifer Chris Neel, OWRB Sustainability of Oklahoma Groundwater Systems: Climate Versus Human Impact Dr. Kyle Murray, Oklahoma Geological Survey/OU Fate of Nitrate in the Capillary Fringe and Shallow Groundwater of a Sandy Soil Dr. Sergio Abot, OSU Hydrogeology, Distribution & Volume of Saline Groundwater, South Midcontinent U.S. Noel Osborn, National Park Service
5:00	Reception & OWRC Poster Viewing	

6:30	CONTINUING LEGAL EDUCATION (CLE) SESSION, OBA ENVIRONMENTAL LAW SECTION 10:30 Michael C. Welford, Confluence of Water Quality & Water Supply Issues in Oklahoma Matt Caves, Stormwater vs. Storm Water Dean Couch, Update on the Tarrant County and Supreme Court Decision 12:00 Luncheon 1:30 Janet Stewart, Oklahoma's Flood Control Structures Brooks Trammel, Wetlands in Oklahoma 3:00 Adjourn
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Wednesday, October 23

7:30	Registration	
8:30	PLENARY SESSION Welcome Rudy Herrmann, OWRC Chairman Legal Update Scott Pruitt, Oklahoma Attorney General Legislative Developments Sen. Brian Bingaman, President Pro Tempore Developing Sustainable Water Systems Sharlene Leung, Ceres	
10:00	Break	
10:30	WATER FOR 2060: BREAKTHROUGHS IN WATER SUSTAINABILITY Partnerships in Conservation Jon Radtke, Coca-Cola Water for People Conservation as a Water Supply Solution Greg Fisher, Denver Water Oil & Gas Production Water Recycling John Tintera, Seabee & Tintera	10:30 SYMPOSIUM SESSION 4: WATER AND SOIL CONSERVATION Session Chair: Shannon Phillips, Oklahoma Conservation Commission Sediment and P Loads from Streambank Erosion in the Illinois Watershed Dr. Garey Fox, OSU Water Use in Ada, Oklahoma During 2011 and 2012 Dr. Jim Weaver, EPA Identification of the Source(s) of Fecal Contamination in Oklahoma Dr. Yuening Lu, OU Using R to Analyze Data from Probabilistic Monitoring in Oklahoma Jean Lemmon, Oklahoma Conservation Commission
12:00	LUNCHEON Luncheon Address: The End of Abundance Dr. David Zelland, Author OWRC Poster Contest Winners 4H Speech Contest Winners Baty Hyde and Star Peoples	
1:30	ROUNDTABLE DISCUSSION: OUT-OF-BASIN WATER TRANSFERS Moderator: J.D. Strong Jeff Converse, Carlton Lake Association John Collison, Oklahoma Farm Bureau David Taylor, Wauka Lake Master Conservancy District Greg Fisher, Denver Water	1:30 SYMPOSIUM SESSION 5: WATER REUSE Session Chair: Dr. Bob Puls, Oklahoma Water Survey Quantifying the First Flush in Rooftop Rainwater Harvesting Jessica Lay, OSU Water Reuse: A Regulatory Overview Patty Thompson, ODEQ Challenges and Advancements in Produced Water Reuse and Recycling Matt Mantell, Chesapeake Energy Advancing Indirect Potable Reuse in Oklahoma: Strategies for Reducing Biochemically-Active Pollutant Loads in Drinking Water Supplies Michael Graves, Garver Consultants
3:00	Break (Water Conference adjourns)	
3:30	SYMPOSIUM SESSION 6: WEATHER AND CLIMATE Session Chair: Gary McManus, Oklahoma Climatological Survey New Weather Analysis Tools Albert Sutherland, OSU OKC Outdoor Water Conservation Education Program Dr. Justin Moss, OSU Sorghum and Corn Production on Limited Water Supply in the Panhandle Dr. Jason Williams, OSU Taking the Long View: Adapting to the Risk of Increasing Frequency and Severity of Drought in Oklahoma Dr. Duncan Wilson, OSU	
5:00	Adjourn	

33RD ANNUAL GOVERNOR'S WATER CONFERENCE 10TH ANNUAL OWRRI WATER RESEARCH SYMPOSIUM

NOVEMBER 13-14, 2012

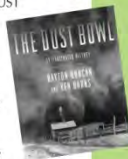
TULSA MARRIOTT SOUTHERN HILLS



DAYTON DUNCAN
Keynote Speaker

Dayton Duncan is an award-winning writer and documentary filmmaker. He served as principal writer for THE DUST BOWL, a

two-part series airing November 18 and 19 on PBS. The series chronicles the worst man-made ecological disaster in American history, in which the frenzied wheat boom of the "Great Plow-Up," followed by a decade-long drought during the 1930s nearly swept away the breadbasket of the nation. Vivid interviews with twenty-six survivors of those hard times, combined with dramatic photographs and seldom seen movie footage, bring to life stories of incredible human suffering and equally incredible human perseverance. It is also a morality tale about our relationship to the land that sustains us—a lesson we ignore at our peril.



2012 OKLAHOMA WATER PIONEERS

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the individuals who have made significant contributions in the planning, development, management, and conservation of Oklahoma's water resources.



Ed Brocksmith



Roman Cripp



Phil Richardson

Tuesday, November 13	
8:00 Registration & OWRRI Poster Viewing	
8:30 PLENARY SESSION	
Welcome Ford Drummond, OWRB Chairman & Dewey Bartlett, Jr., Mayor of Tulsa Keynote: <i>The Dust Bowl, Lessons from the Land</i> Dayton Duncan, Writer/Producer/Filmmaker Water for 2060 & Beyond J.D. Strong, OWRB Executive Director	
10:00 Break & OWRRI Poster Viewing	
10:20	SESSION 1: UPDATES AND NEW DEVELOPMENTS
Salon A-E First Floor	<p>INNOVATIONS IN WATER CONSERVATION, EFFICIENCY, & REUSE</p> <p>The San Antonio Example Karen Guz, Director of Conservation, San Antonio Water System</p> <p>Water Supply and Uses: The Reality in 2012 Karl Stickle, P.E., Guernsey Engineering Kevin Alexander, P.E., Separation Processes, Inc.</p> <p>Conserving Water at a Dairy Farm Anita Van der Laan, Frederick, OK</p>
Salon B-D First Floor	<p>Session Chair: Derek Smith, OWRB</p> <p>Mitigated Creek/Turkey Wetlands: Twenty Years Later; Success or Succession? Hal Reed, ORU</p> <p>Riparian Songbirds as Indicators of Watershed Condition Timothy O'Connell, OSU</p> <p>Hydrologic Investigation of the Rush Springs Aquifer Chris Neal, OWRB</p> <p>Introducing the New South Central Climate Science Center Kim Winton, USGS-SCCSC</p>
Salon B-D Second Floor	<p>10:20</p>
Salon A-E Second Floor	<p>10:20</p>
Noon LUNCHEON	
State & Federal Partnerships for a Shared Water Future Bill Werkheiser, Associate Director for Water, US Geological Survey Oklahoma Water Pioneer Awards Presented by Ford Drummond & J.D. Strong	
1:30	SESSION 2: EFFECTS OF RED CEDAR ENCRoACHMENT ON WATER QUANTITY
Salon B-D First Floor	<p>INNOVATIONS IN WATER CONSERVATION, EFFICIENCY, & REUSE</p> <p>Water as a Crop Ken Klavness, Executive Director, Trinity Waters</p> <p>Energy Water Conservation & Recycling Richard Luedtke, Devon Energy</p> <p>Conserving Water through No-Till Farming Jay Franklin, Vinita, OK</p>
Salon B-D Second Floor	<p>Session Chair: Mike Fuhr, The Nature Conservancy</p> <p>Introduction and Throughfall, Interception, and Stemflow Results Don Turton, OSU</p> <p>Watershed Infiltration, Soil Water Dynamics, and Stream Flow Chris Zeig, OSU</p> <p>Water Use of Individual Red Cedar Trees Rodney VIII, OSU</p> <p>Invasive Species Public Policy: Eastern Red Cedar Management, Options & Consequences Larry Sanders, OSU</p>
3:00	SESSION 3: THE 2010-2012 OKLAHOMA DROUGHT
3:20	SESSION 4: WATER QUALITY AND NUTRIENT MANAGEMENT
Salon B-D First Floor	<p>3:00 Break, Rainfall Simulator Demonstration (Greg Scott, NRCS), & OWRRI Poster Viewing</p>
Salon B-D Second Floor	<p>ROUNDTABLE DISCUSSION: REGIONAL WATER PLANNING</p> <p>Moderator: J.D. Strong, OWRB</p> <p>Fred Fischer, Oklahoma Panhandle Water Planning Group</p> <p>Carolyn Britton, Texas Water Development Board</p> <p>Brian Woodard, Oklahoma Independent Petroleum Association</p> <p>Amy Ford, Citizens for the Protection of the Arbuckle-Simpson Aquifer</p>
Salon A-E First Floor	<p>3:20</p> <p>Session Chair: Jason Lewis, USGS-WSC</p> <p>Evolution and Persistence of the 2010-2012 Drought in Oklahoma Gary McManus, OU</p> <p>Hydrologic Drought of Water Year 2011 Compared to Four Major Drought Periods of the 20th Century in Oklahoma Bill Andrews, USGS-Water Science Center</p> <p>Soil Moisture-Based Drought Monitoring in Oklahoma Tyson Ochsner, OSU</p> <p>Impacts and Responses to the Drought Dave Shideler, OSU</p>
5:00 Reception & OWRRI Poster Viewing	
CONTINUING LEGAL EDUCATION (CLE) SESSIONS, OGA ENVIRONMENTAL LAW SECTION	
10:30	Cool Water: Texas, Tribes, and Comprehensive Plans—Implications of Three Current Water Disputes, Drew Kershner
12:00	Luncheon (Sequoia Room)
1:30	Current Issues from the Perspective: Oklahoma Municipalities, Ken Williams
2:30	Section 404 of the Clean Water Act: Permitting Requirements and Authority, Shane Charleston and Jeri Fleming
3:30	Section 401 Water Quality Certification, Mark Derschwiler and Jeri Fleming
4:30	In-Stream Flows and Non-Consumptive Uses of Water in Oklahoma, Deann Couch
5:00	Adjourn

Wednesday, November 14	
8:00 OWRRI Poster Viewing	
8:30 PLENARY SESSION	
Welcome Ford Drummond, OWRB Chairman & Gary Sherrer, Oklahoma Secretary of Environment Partnerships in Sustainability Curt Brown, Bureau of Reclamation Brian Richter, The Nature Conservancy	
10:00 Break & OWRRI Poster Viewing	
10:20	SESSION 4: WATER QUALITY AND NUTRIENT MANAGEMENT
Salon A-E First Floor	<p>IMPLEMENTING OCWP PRIORITIES: MONITORING & INFRASTRUCTURE</p> <p>Water Monitoring & Analysis Derek Smith, Julie Cunningham, OWRB</p> <p>Water/Wastewater Financing Solutions Joe Freeman, OWRB</p> <p>Ann Burger Entekin, FirstSouthwest</p> <p>Chris Cochran, BOSG, Inc.</p>
Salon B-D First Floor	<p>Session Chair: Claude Bess, OK Cooperative Extension Service</p> <p>Phosphorus Concentrations Have Been Declining in the Illinois River: Was it Point Sources, Farm-Level Nutrient Management, or What? Brian Haggard, Univ. of Arkansas</p> <p>Within-River Phosphorus Retention in the Illinois River: A Missing Piece in the Watershed Phosphorus Puzzle? Helen Jarvis, Centre for Ecology & Hydrology, United Kingdom</p> <p>Investigating Algal Response to Changing Phosphorus Concentrations in British Rivers Using Flume Mesocosms Mike Bowes, Centre for Ecology & Hydrology, United Kingdom</p> <p>Oklahoma's Poultry Waste Management Education Program Josh Payne, OK Cooperative Extension Service</p>
Salon B-D Second Floor	<p>10:20</p>
Salon A-E Second Floor	<p>10:20</p>
Noon LUNCHEON	
The Blue Revolution Cynthia Barnett, Author OWRRI Poster Contest Winners 4-H Speech Contest Winners Luke Chapman & Bayli Hyde	
1:30	SESSION 5: WATER USE AND MANAGEMENT FOR ENERGY PRODUCTION
Salon B-D First Floor	<p>ROUNDTABLE DISCUSSION: INSTREAM ENVIRONMENTAL FLOWS</p> <p>Moderator: J.D. Strong, OWRB</p> <p>Charlette Heame, Oklahomans for Responsible Water Policy</p> <p>Mike Fuhr, The Nature Conservancy</p> <p>Drew Kershner, OU College of Law</p> <p>Marla Peck, Oklahoma Farm Bureau</p>
Salon B-D Second Floor	<p>Session Chair: Robert Puls, Oklahoma Water Survey, OU</p> <p>Innovative Strategies for Management of Water in Unconventional Resource Projects David Allemen, ALL Consulting</p> <p>Old Oil Wells Verses New Water Wells: A Case Study Patricia Billingsley, Oklahoma Corporation Commission</p> <p>Estimating Freshwater and Saline Water Volumes Associated with Oil and Gas Production in Oklahoma, 2000 to Present Kyle Murray, OU</p> <p>Land Application of Drilling Mud Chad Penn, OSU</p>
3:00	SESSION 6: ENVIRONMENTAL CHEMISTRY FOR WATER RESOURCE PROTECTION
3:30	OWRRI NOVEMBER MONTHLY MEETING
Salon A First Floor	<p>3:00 Break</p> <p>3:30</p> <p>Session Chair: Jason Vogel, OSU</p> <p>DOC Characterization for Surface Water Impoundments in Northeast Oklahoma Brian Wintle, Professional Engineering Consultants</p> <p>Mercury Exposure from Fish Consumption Among Recreational Fishers in the Grand Lake Watershed Robert Lynch, OUHSC</p> <p>Polycyclic Aromatic Hydrocarbons (PAHs) in Harvested Rainwater Jisson Vogel, OSU</p> <p>Relation Between pH and Occurrence of Trace Elements and Radionuclides in Water from Private Wells, Central OK, 2011 Carol Becker, USGS-WSC</p>
Salon A Second Floor	<p>3:30</p>
5:00	Adjourn

OKLAHOMA COMPREHENSIVE WATER PLAN:
**THE FOUNDATION FOR
 OKLAHOMA'S
 WATER
 FUTURE**

OCTOBER 18-19, 2011

32nd Annual Governor's Water Conference & 9th Annual OWRRI Water Research Symposium

EMBASSY SUITES HOTEL AND CONFERENCE CENTER • NORMAN, OKLAHOMA



Tuesday, October 18

8:00 AM	OKLAHOMA BALLROOM		
	WELCOME: Linda Lambert, OWRB Chairman Todd Lamb, Oklahoma Lieutenant Governor	Keynote: Charles Fishman, Author, <i>The Big Thirst</i>	2012 Update of the Oklahoma Comprehensive Water Plan: J.D. Strong, OWRB Executive Director Kyle Arthur, OWRB Director of Planning
9:30	BREAK		
10:00	UNIVERSITY BALLROOM	ROOM G-H	ROOM I-J
	OCWP Panel 1: THE VALUE OF WATER <i>Agriculture:</i> Mark Nichols <i>Public Supply:</i> Bill Sims, ORWA <i>Energy Production:</i> Patricia Horn, OG&E <i>Navigation:</i> Bob Portiss, Port of Catoosa <i>Fish & Wildlife:</i> Richard Hatcher, ODWC	Water Research Symposium Session 1: UPDATES AND NEW DEVELOPMENTS Welcome: Bob Whitson, OSU <i>Session Chair:</i> Caryn Vaughn, OU <i>The Oklahoma Water Survey:</i> Paul Risser, OU <i>Future Changes in Stormwater Program Requirements:</i> Richard Smith, INCOG <i>Harmful Algae in Oklahoma:</i> David Hambright, OU <i>Mosquitoes as Bioindicators of Inefficient Wastewater Disposal:</i> Valerie O'Brien, OSU	Oklahoma Association of Reclamation Projects Meeting
11:30	OKLAHOMA BALLROOM		
	LUNCHEON Oklahoma Water Pioneer Awards R. Thomas Lay & Rick A. Smith	Water Outlook from Washington DC: Congressman James Lankford	
1:00	BREAK		
1:30	UNIVERSITY BALLROOM	ROOM G-H	ROOM I-J
	OCWP Panel 2: WATER SUPPLY LIMITATIONS, OPTIONS, & SOLUTIONS <i>OCWP Water Demand/Hot Spots:</i> Jessica Fritsche, CDM <i>OCWP Water Supply Options:</i> Dan Reisinger, CDM <i>Regional Water Supply:</i> Karl Stickle, C H Guernsey <i>Maximizing Existing Storage:</i> Robert Toole, OCC	Water Research Symposium Session 2: EFFECTS OF DROUGHT IN OKLAHOMA <i>Session Chair:</i> Stan Paxton, USGS <i>Incorporating Climate Change Science into Water Supply Planning:</i> Tim Cox, CDM <i>Drought Effects on Mussels in SE Oklahoma Rivers:</i> Caryn Vaughn, OU <i>Drought Monitoring: A System for Tracking Plant Available Water Based on the Oklahoma Mesonet:</i> Al Sutherland, OSU <i>Measuring Drought Impacts:</i> Dave Shideler, OSU	Hydrologic Studies & Tools I <i>ABRFC, CoCoRAHS, and You:</i> James Paul, Arkansas-Red Basin River Forecast Center <i>Groundwater Levels in Oklahoma:</i> Chris Neel, OWRB <i>Future OWRB Hydrologic Investigations:</i> Chris Neel, OWRB <i>Rush Springs Aquifer in Caddo County:</i> Mark Becker, USGS
3:00	BREAK		
3:30	UNIVERSITY BALLROOM	ROOM G-H	ROOM I-J
	OCWP Panel 3: INNOVATIONS IN CONSERVATION, RECYCLING, & REUSE <i>OCWP Conservation Assessment:</i> Jessica Fritsche, CDM <i>Agricultural Water Efficiency:</i> Jason Hiltz, Hitch Enterprises <i>Energy Water Conservation:</i> Richard Luedecke, Devon <i>Marginal Quality Water Use:</i> Mike Irbeck, Abengoa Water <i>Municipal Water Reuse:</i> Phil Spitzer, Alan Plummer Associates.	Water Research Symposium Session 3: APPLICATIONS IN ENVIRONMENTAL ENGINEERING <i>Session Chair:</i> Jason Vogel, OSU <i>A Fluvial Geomorphic and Sediment Transport Study of the Little River:</i> Russell Duttineil, OU <i>Garnett Regional Detention Facility- Balancing Development, Flood Mitigation and Environmental Restoration:</i> Brandon Claborn, Meshek & Associates <i>Passive Flow Regulated Chemical Injection System for Sediment Removal from Runoff:</i> Karl Gartrecht, OSU <i>The Use of Sterol Distributions to Determine the Origin of Fecal Contamination:</i> Coralie Blache, OU	Hydrologic Studies & Tools II <i>Stream Water Allocation:</i> Bob Fabian & Maria Moreno, OWRB <i>Garber-Wellington Hydrologic Investigation:</i> Shana Mashburn, USGS, & Chris Neel, OWRB
5:00	RECEPTION		

Wednesday, October 19

8:00 AM	OKLAHOMA BALLROOM		
	WELCOME: Linda Lambert, OWRB Chairman Gary Sherrer, Oklahoma Secretary of Environment	Joint Legislative Water Committee: Kris Steele, House Speaker Brian Bingman, Senate President Pro Tempore	Federal Update: Col. Michael Teague, Tulsa District Engineer, USACE
9:30	BREAK		
10:00	UNIVERSITY BALLROOM	ROOM G-H	ROOM I-J
	OCWP Panel 4: REGIONAL PLANNING EXPERIENCES IN OTHER STATES Texas Regional Water Planning Groups: Carolyn Brittin, Texas Water Development Board Kansas Basin Advisory Committees: Tracy Streeter, Kansas Water Office Colorado Basin Roundtables & Georgia Regional Water Planning Councils: Rick Brown, CDM	Water Research Symposium Session 4: SOCIAL & ECONOMIC STUDIES OF WATER RESOURCES <i>Session Chair:</i> Guy Sewell, ECU <i>Building Partnerships for a Coordinated Flood Vulnerability Assessment and Readiness Plan:</i> William Smiley, USACE <i>Household Perspectives of Pico and Non-price Water Conservation Tools:</i> Tracy Boyer, OSU <i>A Water Rights Comparison of AR, TX, OK, NM, GA, AL, & FL:</i> Rebecca Harjo & Jeri Fleming, OSU <i>Beyond OCWP 2012: Future Allocation Strategies for Oklahoma's Water Resources:</i> Guy Sewell, ECU	Oklahoma Association of Reclamation Projects Meeting
11:30	OKLAHOMA BALLROOM		
	LUNCHEON Poster Contest Winners	4-H Speech Contest Winners Maddi Shires, Galera Jenna Murray Fletcher	Ancient Israeli Water Systems: Dr. Dan Warner
1:00	BREAK		
1:30	UNIVERSITY BALLROOM	ROOM G-H	ROOM I-J
	OCWP Panel 5: INSTREAM/ENVIRONMENTAL FLOWS OKLAHOMA: Derek Smith, OWRB TEXAS: Mark Wentzel, Texas Water Development Board NEBRASKA: Rick Eades, Nebraska Game and Parks Commission KANSAS: Tracy Streeter, Kansas Water Office	OWRRI Water Research Symposium Session 5: WATER QUALITY MANAGEMENT SUCCESS STORIES <i>Session Chair:</i> Phillip Moershel, OWRB <i>Nutrient TMDLs for Sensitive Water Supply Lakes:</i> Andrew Fang, ODEQ <i>Passive Treatment Opportunities in a Drastically Disturbed Watershed:</i> Robert Naim, OU <i>Solving Water Quality Problems through Voluntary Programs:</i> Shannon Phillips, OCC <i>Detecting Water Quality Improvements through Trend Analyses:</i> Monty Potter, OWRB	OCWP Panel 6: WATER PROJECT & INFRASTRUCTURE FUNDING Amber Wooten, CDM Anne Burger, FirstSouthwest Chris Cochran, BOSC, Inc. Joe Freeman, OWRB
3:00	BREAK		
3:30	UNIVERSITY BALLROOM	ROOM G-H	
	Joint Legislative Water Committee Open Meeting Senator Brian Crain & Representative Phil Richardson	OWRRI Water Research Symposium Session 6: STREAM WATER-GROUNDWATER INTERACTION <i>Session Chair:</i> Kim Winton, USGS <i>One Water:</i> Chris Harich, USGS <i>The Importance of Understanding Groundwater- Surface Water Interaction for Integrated Water Management in Nebraska:</i> James Carnis, USGS NE Water Science Center <i>GW/SW Interaction in the Arbuckle-Simpson Aquifer:</i> Noel Osborn, USGS <i>Quantification & Heterogeneity of Phosphorus Leaching in Ozark Floodplains:</i> Derek Heeren, OSU	
5:00	ADJOURN		

2011 Oklahoma Water Pioneers

R. Thomas Lay
 Rick A. Smith

31st Annual Oklahoma Governor's Water Conference and 8th Annual OWRRI Water Research Symposium

8:00 AM October 26

Welcome

Rudy Herrmann, OWRB Chairman

Cindy Rosenthal, Mayor, City of Norman

Address: Jari Askins, Lt. Governor, State of Oklahoma

Keynote: Scott Huler, Author, *On the Grid*

State of the State's Water

J.D. Strong, OK Sec. of Environment, OWRB Exec. Director

10:00 AM OCWP Municipal/Public Water Supply Panel

Moderator: Steve Thompson, Executive Director, ODEQ

Bill Sims, President, Oklahoma Rural Water Association

Jerry Johnston, Mayor, Braman, Oklahoma

Rodney Ray, City Manager, Owasso, Oklahoma

Marsha Slaughter, Director, OKC Water Utilities Trust

11:30 AM Luncheon Program

Federal Update

Congressman Tom Cole

Laura Furgione, Deputy Director, National Weather Service

Oklahoma Water Pioneer Awards

1:30 PM OCWP Agriculture Panel

Moderator: Terry Peach, OK Sec. of Agriculture

Dr. Larry Sanders, Professor & Extension Economist, OSU

Tom Buchanan, Director, Lugert-Altus Irrigation District

Mike Armitage, Owner/CEO, A Bar Ranch/Armitage Livestock

3:30 PM OCWP Tribal Panel

Moderator: Bill Anoatubby, Chickasaw Nation Governor

Chris Tweeten, Chairman, MT Reserved Rights Compact Commission

Chris Kenney, Director, USBR Office of Native American Affairs

Stephen Greetham, Special Counsel for the Chickasaw Nation

5:00 Adjourn to Reception

8:00 AM October 27

Welcome

Rudy Herrmann, OWRB Chairman

Federal Update

Congresswoman Mary Fallin

Colonel Michael Teague, Tulsa District Engineer, USACE

Water Plan Update

Kyle Arthur, Director of Planning, OWRB

John Rehring, CDM

Ken Senour, C H Guernsey

Will Focht, OWRRI

10:00 AM OCWP Environment Panel

Moderator: Richard Hatcher, Director, OK Dept. of Wildlife Conservation

Mike Fuhr, The Nature Conservancy

Barney Austin, INTERA

Tracy Boyer, Associate Professor of Agricultural Economics, OSU

Shannon Brewer, OK Cooperative Fish and Wildlife Research Unit

11:30 AM Luncheon Program

Inca Water Engineering—Machu Picchu, Típon, & Moray

Kenneth R. Wright and Ruth Wright

Poster Contest Winners

4H Speech Contest Winners

1:30 PM OCWP Commerce and Industry Panel

David Myers, Ponca City Development Authority

David Braddock, Altus Economic Development Corporation

Brent Kisling, Enid Regional Development Alliance

3:30 PM OCWP Energy Panel

Bud Ground, Public Service Company of Oklahoma

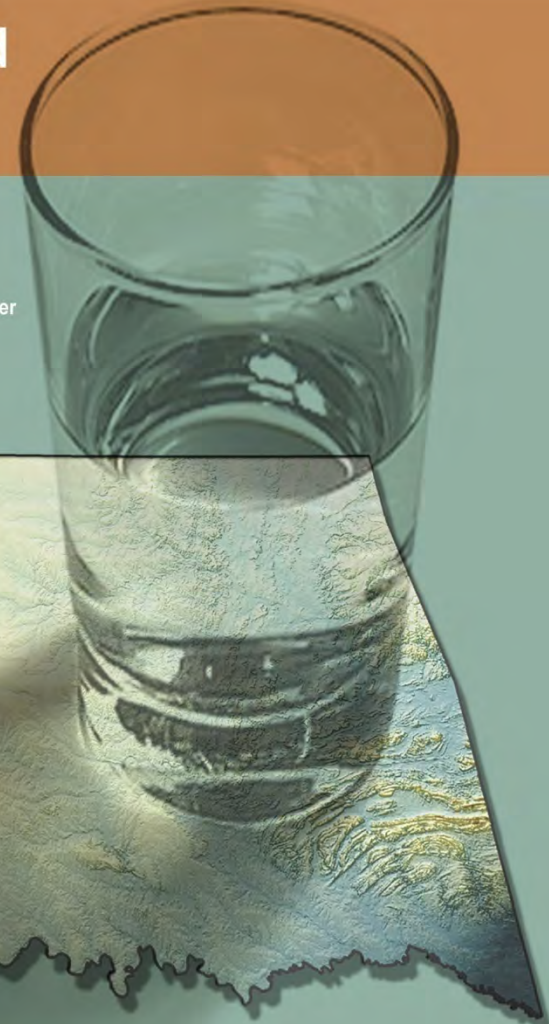
Richard Luedecke, Devon Energy Corporation

Trish Horn, OGE Energy Corporation

5:00 PM Adjourn

October 26-27, 2010

Embassy Suites Hotel and Conference Center
Norman, Oklahoma



2010 Oklahoma Water Pioneers



Drew Edmondson



Mike Melton



Diane Pedicord

A Shared Resource, A Shared Responsibility

30th Annual Oklahoma Governor's Water Conference

7th Annual OWRRI Water Research Symposium



Governor's Water Conference

Tuesday, November 3

- 7:45 Registration
- 8:15 Welcome & Introductions
Rudy Herrmann, OWRB Chairman
Lt. Gov. Jari Askins
- 8:45 America's Water Crisis
Robert Glennon, Law Professor, Author
- 10:00 Break/Book Signing (Robert Glennon)
- 10:30 Oklahoma's Water Resources: Past, Present, and Future
Duane Smith, OWRB Executive Director
- 10:50 National Water Policy
Steve Stockton, Director of Civil Works, USACE
- 11:10 Regional Water Issues
Col. Anthony Funkhouser, Tulsa District Engineer, USACE
- 11:30 Reclamation Activities
Mike Ryan, Regional Director, Bureau of Reclamation
- Noon Luncheon
Oklahoma Water Pioneer Awards
Rudy Herrmann
Duane Smith
Water Outlook from Washington DC
Congresswoman Mary Fallin
Rural Development Stimulus Funding
Ryan McMullen, State Director, USDA Rural Development
- 2:00 Legal Update
Drew Edmondson, OK Attorney General
- 2:20 Planning for Oklahoma's Water Quality
Derek Smithee, Chief, OWRB Water Quality Division
- 2:40 ODEQ/OWRB Stimulus Funding
Steve Thompson, ODEQ Executive Director
- 3:00 Break
- 3:30 Legislative Water Perspective
Susan Paddack, OK State Senate
- 3:50 Arbuckle-Simpson Hydrology Study
Duane Smith
- 4:10 Garber-Wellington Aquifer Study
Scott Christenson, USGS
- 4:30 OCWP Tribal Issues
Lindsay Robertson, Professor, OU College of Law
- 4:50 Adjourn to Reception
(5:00-7:00 p.m., Joyner Room)

Wednesday, November 4

- 7:45 Registration & Poster Viewing
- 8:15 Welcome & Introductions
Duane Smith
- 8:30 Panel: OK Comprehensive Water Plan
OCWP Overview & Update
Kyle Arthur, OWRB Director of Planning
OCWP Technical Studies Update
John Rehning, Engineer, CDM
OCWP Public Participation Process Update
Will Focht, OWRRI Director
- 10:00 Break
- 10:30 Oklahoma Water: Leading the Way
Glenn Coffee, President ProTempore, OK State Senate
Chris Bengt, Speaker, OK House of Representatives
- 11:00 GRDA Water Planning
Kevin Easley, CEO, Grand River Dam Authority
- 11:20 Interstate Stream Compacts
Chuck Dumars, Attorney, Law & Resource Planning Associates
- 11:40 OCS Water Planning Research
Renee McPherson, Acting Director, OK Climatological Survey
- Noon Luncheon
J.D. Strong, Secretary of the Environment
4-H Club Speech Contest Winners

Thursday, November 5

- 7:45 Registration & Poster Viewing
- 8:15 Welcome & Introductions
- 8:30 Session 3: Surface Water
Chair: Kim Winton, District Chief, USGS
 - Volunteers and Their Data: What We Know About Blue Thumb Streams, Jean Lemmon, OK Conservation Commission
 - Assessment of Environmental Flows in Oklahoma, Don Turton, NREM, OSU
 - Changes in Selected Metals Concentrations from the Mid-1980s to the Mid-2000s in a Stream Draining the Picher Mining District of Oklahoma, William Andrews, USGS
 - Concentrations of Selected Metals in Bottom Sediments from Grand Lake o' the Cherokees, Oklahoma, Mark Becker, USGS
- 10:00 Break & Poster Viewing
- 10:30 Session 4: Evaporation, ET, and Soil Water
Chair: Dave Engle, Water Research & Education Center, OSU
 - Quantifying Evapotranspiration Across Varying Seasonal and Within-Season Climatic Signals Across Oklahoma, Jeffrey Basara, OK Climatological Survey
 - Oklahoma's White Water, Tyson Ochsner, Plant & Soil Sciences, OSU
 - Remote Sensing of Evapotranspiration, Yang Hong/Baxter Vieux, Civil Engineering & Environmental Science, OU
 - Soil Water in Oklahoma No-Till, Jason Warren, Plant & Soil Sciences, OSU
- 12:00 Luncheon
The Nabataeans: An Ancient Hydraulic Society
Dr. Mac McKee, Univ. of Utah
Announcement of Poster Contest Winner
- 1:30 Session 5: Field Techniques in Water Research
Chair: Baxter Vieux, Professor, OU
 - Using Helicopter Electro-Magnetic Survey Maps and Cross-Sections and Aerial Photos to Locate and Differentiate Salinity Pollution Sources, Patricia Billingsley, OK Corporation Commission
 - Three-Dimensional Electrical Resistivity Imaging in the El Reno Well Field, Canadian County, Oklahoma, John Harrington, Association of Central OK Governments
 - Implementation Monitoring: Use of Automated Samplers to Effectively Document Water Quality Improvements, Brooks Trammell, OK Conservation Commission
 - Climate Impacts on Sediment Production at Fort Cobb Reservoir, Jurgen Garbrecht, USDA
- 3:00 Break
- 3:30 Session 6: Monitoring and Modeling Nutrient Transport Processes
Chair: Mike Smolen, Biosystems & Agricultural Engineering, OSU
 - Distributing Phosphorus Load for a TMDL, Mike Smolen
 - Estimates of Nutrient Concentrations in the Eucha-Spavnavn Basin Using Real-Time Continuous Water Quality Monitoring, Rachel Esralew, USGS
 - Subsurface Transport of Phosphorus in Alluvial Floodplains, Garey Fox, Biosystems & Agricultural Engineering, OSU
 - Demonstrating Success: Oklahoma's Beaty Creek Watershed Implementation Project, Greg Kloxin, OK Conservation Commission
- 5:00 Adjournment

OWRRI Water Research Symposium

Wednesday, November 4

- 1:00 Poster Viewing
Poster Session Chair: Michael Holmes, Assistant Professor, OSU
- 1:30 Session 1: Updates and New Developments
Chair: Glenn Brown, Professor, OSU
 - Development of a Model for Evaluating Future Supply Needs of Rural Water Districts and Small Communities, Arthur Stocker, Agricultural Economics, OSU
 - Arkansas River Low Water Dams, Gaylon Pinc, Program Mgmt. Group
 - Bioremediation Cells/LID Project in Grove, OK, Glenn Brown
 - Using Geologic Data and GIS to Make Base of Treatable Water Maps that Protect Fresh Water Aquifers, Charles Lord, OK Corporation Commission
 - 3-D Booth Introduction, Tim Sickbert, Boone Pickens School of Geology, OSU
- 3:05 Break & Poster Viewing
- 3:30 Session 2: Garber-Wellington Aquifer in Central Oklahoma
Chair: Noel Osborn, Geologist, OWRB
 - Using Outcrops to Describe Aquifer Properties: A Garber-Wellington Example, Stan Paxton, USGS
 - Water Levels in the Garber-Wellington (Central Oklahoma) Aquifer, 1986-87 to 2009, Shana Mashum, USGS
 - Removing Arsenic from the Garber-Wellington Aquifer with Granular Ferric Oxide, Mary Elizabeth Mach, Garver Engineers
 - Potential for Arsenic Remediation by Well Modification, Norman, Oklahoma, 2003-2006, Jerrod Smith, USGS
- 5:00 Adjourn/Poster Viewing

Understanding Oklahoma Water

November 3-5, 2009

Sheraton-Reed Conference Center
Midwest City, Oklahoma

Oklahoma Comprehensive Water Plan

OCWP



JAMES BARNETT



JON CRAIG



STEVEN MOORE



GENE WHATLEY

2009 Oklahoma Water Pioneers

29th Annual Governor's Water Conference & 6th Annual OWRRI Water Research Symposium

Sheraton-Reed Conference Center
Midwest City, OK

October 28-30, 2008



Oklahoma Comprehensive Water Plan

Water Solutions for Oklahoma

October 28

GOVERNOR'S WATER CONFERENCE AGENDA

- 7:45 **Registration**
8:15 Welcome
Mark Nichols, Chairman, OWRB
J.D. Strong, Oklahoma Secretary of the Environment
- 8:30 Comprehensive Water Planning in Oklahoma: Duane Smith, OWRB Executive Director
- 9:15 The Corps of Engineers' Water Planning Role: Steve Stockton, Director of Civil Works, Corps of Engineers
- 9:30 The Corps' Tulsa District - Working with Oklahoma: Col. Anthony Funkhouser, Tulsa District Engineer
- 9:45 **Break**
- 10:15 OCWP Public Participation: Will Focht, Director, OWRRI
- 10:35 **Panel: OCWP Technical Studies**
Overview: John Rehring, Camp Dresser & McKee Inc.
Statewide Water Supply/Demand Analysis: Kelly DiNatale, Senior Water Resources Engineer, CDM
Public Water Provider/Infrastructure Survey: Bryan Mitchell, Deputy Project Manager for the OCWP, CDM
- 11:40 **Break**
- Noon **Conference Luncheon**
Oklahoma Water Pioneer Awards
Chairman Nichols, Duane Smith
Legislative Water Perspective
Senator Glenn Coffee, Co-President Pro Tempore
Representative Dale DeWitt
Water Outlook from Washington DC
Representative Mary Fallin
Representative Tom Cole
- 1:40 **Break**
- 2:00 Interior Update
Kris Polly, Dep Asst Sec for Water and Science, Dept of Interior
- 2:20 The New State/Federal Water Planning Model
Fred Caver, President, Caver & Associates Inc.
- 2:40 The Great Lakes Compact
Cameron Davis, President, Alliance for the Great Lakes
- 3:00 Water Supply Management in a Variable Climate
Ken Crawford, Director, Oklahoma Climatological Survey
- 3:20 Arbuttle-Simpson Study Proposed Management Options
Noel Osborn, Water Resources Geologist, OWRB
Scott Christenson, Hydrologist, U.S. Geological Survey
- 4:20 **Adjourn to Reception**
- October 29**
- 7:45 **Registration and Poster Viewing**
8:15 Welcome
Duane Smith, OWRB Executive Director
Mayor Mick Cornett, Oklahoma City
- 8:40 The Energy/Water Nexus
Tom Price, Jr., Senior VP-Corporate Development, Chesapeake
- 9:00 The Tribal Role in Water Plan Development
Governor Bill Anoatubby, Chickasaw Nation
- 9:20 Nexus Between Water Supply Planning & Environmental Flows - The Texas Experience
Bill Mullican, Water Science & Cons, Texas Water Dev Board
- 9:40 Partnerships in Oklahoma Water Quality
Steve Thompson, Executive Director, ODEQ

- 10:00 **Break & Poster Viewing**
10:30 **Panel: Protecting Oklahoma's Water Interests**
Michael Fuhr, Director, Nature Conservancy of Oklahoma
Jeff Todd, Attorney, Oklahoma Farm Bureau Legal Foundation
Diane Pedicord, General Counsel, Oklahoma Municipal League
Bob Portiss, Director, Tulsa Port of Catoosa
- 11:20 **Panel: Regional Water Solutions for Oklahoma**
Rob Johnson, CEO, National Rural Water Association
Steve Lewis, Manager, City of Norman
Kelly Hurt, Engineer, Chickasaw Enterprises
- Noon **Conference Luncheon**
4-H Speech Contest Winners
From Wall Street to Main Street: The Financial Crisis & Its Impact on Water Infrastructure: Chris Cochran, Capital West Securities Inc.
Rick Smith, Municipal Finance Services Inc.

October 29

OWRRI WATER RESEARCH SYMPOSIUM AGENDA

- 1:30 **Session 1: Updates and New Developments**
Chair: Ed Rossman, Adjunct Professor, Environmental Science, OSU
- 3:00 **Break & Poster Viewing**
- 3:30 **Session 2: Trends in Water Use**
Chair: Stan Paxton, USGS Oklahoma Water Science Center - Chief, Study Section
- 5:00 **Adjourn to Reception & Poster Viewing**

October 30

- 7:45 **Registration and Poster Viewing**
8:15 Welcome & Introductions: Glenn Brown, Symposium Chair, and Professor, Biosystems and Agricultural Engineering, OSU
Burns Hargis, System CEO & President, OSU
- 8:30 **Session 3: Climate Change and Water Planning in Oklahoma**
Chair: Jurgen Garbrecht, Research Hydraulic Engineer, ARS USDA
- 10:00 **Break & Poster Viewing**
- 10:30 **Session 4: Information/Data Flow Through Federal Agencies**
Chair: Kim Winton, District Chief, USGS
- 12:00 **Symposium Luncheon**
Announcement of Poster Contest Winners
Presentation: Transbasin Water Supply in the Kingdom of Urartu: Jurgen Garbrecht, ARS USDA
- 1:30 **Session 5: Water Research by Tribes in Oklahoma**
Chair: Talee Redcorn, Minerals Council, Osage Nation
- 3:00 **Break**
- 3:30 **Session 6: Water Budgets as a Basis for Water Resource Management**
Co-Chairs: Noel Osborn, OWRB, and Jeanne Schneider, Meteorologist, ARS USDA
- 5:00 **Adjourn**

2008 Water Pioneers



Garner Garrison



Mason Mungle



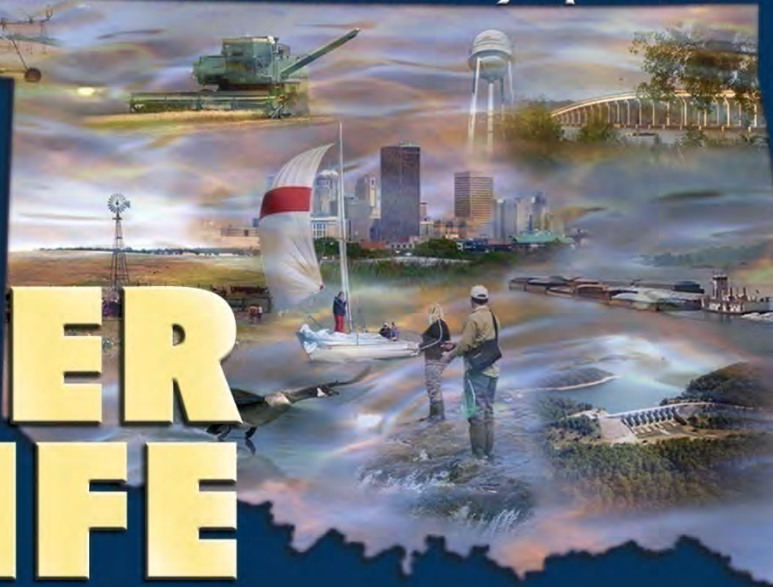
Robbie Robbins

28th Annual Governor's Water Conference & 5th Annual OWRRI Water Research Symposium

Cox Convention Center
Oklahoma City, OK

October 23-25, 2007

WATER for LIFE



Tuesday, October 23

8:00 Registration

8:30 Welcome

Dr. Glenn Brown, Biosystems & Agricultural Engineering, Oklahoma State University

8:45 **Session 1A: The Arbuckle-Simpson Hydrology Study—Hydrology of the Arbuckle-Simpson Aquifer**

Session Chair: Noel Osborn, Water Resources Geologist, Oklahoma Water Resources Board
Overview of the Arbuckle-Simpson Hydrology Study
Noel Osborn, OWRB

Geologic Framework of the Arbuckle-Simpson Aquifer
Dr. Todd Halihan, Assistant Professor, School of Geology, OSU

Groundwater Hydrology of the Arbuckle-Simpson Aquifer
Scott Christenson, Hydrologist, New Mexico Water Science Center, U.S. Geological Survey
Stream Hydrology and Water Balance of the Arbuckle-Simpson Aquifer
Dr. Baxter Vieux, Director, Center for Natural Hazards & Disaster Research, Oklahoma Univ.

10:00 **Break/Student Poster Competition Viewing**

10:30 **Session 1B: The Arbuckle-Simpson Hydrology Study—Putting the Pieces Together for Water Management**

Session Chair: Noel Osborn, OWRB
The Role of Science in Evaluating Management Options for the Arbuckle-Simpson Aquifer
Noel Osborn, OWRB

Modeling Surface Water Rights
Benjamin Harding, Principal Engineer, Hydrosphere Resource Consultants

Modeling Fish Habitat in Streams Draining the Arbuckle-Simpson Aquifer
Dr. Bill Fisher, Research Ecologist, Oklahoma Cooperative Fish & Wildlife Research Unit, OSU
Simulations of Groundwater Flow in the Arbuckle-Simpson Aquifer
Scott Christenson, USGS

11:45 **Luncheon**

ARS Water Resources Research in Oklahoma: From Floods to Droughts & Everything in Between, A Story Worth Telling
Jurgen Garbrecht, Agricultural Research Service, U.S. Department of Agriculture

1:30 **Session 2: Updates & New Developments**

Session Chair: Dr. Glenn Brown, OSU
Issues with Setting Water Quality Based Endpoints for a Quantitative P Index
Dr. Dan Storm, Biosystems & Agricultural Engineering, OSU
Harmful Algal Bloom Management Policy for Corps of Engineers Tulsa District Reservoirs
Dr. Gerard A. Clyde, U.S. Army Corps of Engineers, Tulsa District
Research & Evolving Tools on Earthen Embankment Breach Failure Processes & Erodibility
Dr. Greg Hanson, USDA-ARS

3:00 **Break/Student Poster Competition Viewing**

3:30 **Session 3: The Grand Lake Watershed Interstate Public/Private Plan**

Session Chair: Dr. Michael Smolen, OSU
Introduction to Cooperative Programming in the Four States & the Four-State Alliance Partnership
Dr. Michael Smolen, OSU

Grand Lake—It's a Big Watershed
Carl Metcalf, Grand Lake Watershed Alliance Foundation
Grand Lake Watershed Implementation (Oklahoma) & Four State Planning Efforts
Dr. Kevin Gustavson, Oklahoma Conservation Commission

Watershed Education Programs & Stakeholder Groups in the Shoal Creek & Elk River Watershed of Missouri
Drew Holt, University of Missouri Extension

Watershed Education Programs & Stakeholder Groups in the Neosho River Watershed of Kansas
Jim Triplett, Pittsburgh State University

5:00 **Adjournment to Reception**

Wednesday, October 24

8:00 Registration

8:15 **Welcome & Introductions**

Dr. Marlene Strathe, Interim President, OSU

8:30 **Oklahoma's Water Future**

Dr. John F. Luthy, President, The Futures Corporation

9:15 **Session 4: Defining Water Sustainability**

Session Chair: Dr. Kim Winton, Director, Oklahoma Water Science Center, USGS
Assessment of Water Availability in Regional Aquifer Systems Using Modflow's Farm Process
Randall T. Hanson, Research Hydrologist, USGS
Precipitation Variability & Sustainability of Water Supply & Demand
Dr. Jurgen Garbrecht, USDA-ARS
An Introduction to Ecological Flows
Rachel Esralew, Stream Ecologist, USGS Oklahoma Water Science Center
Ellen Tejen, The Nature Conservancy

10:45 **Break**

11:00 **Session 5: Science and Policy**

Session Chair: Ed Rossman, Assistant Chief, Planning & Environmental Division, Corps of Engineers, Tulsa District

The Division of Agricultural Sciences & Natural Resources' Initiative in Water Resources
Dr. Robert Whitson, Vice President, Dean and Director for Agricultural Programs, OSU
Shared Vision Planning Applied to Regulatory Decisions

Hal Cardwell, Corps of Engineers, Institute for Water Resources
Bill Warwick, Corps of Engineers, Institute for Water Resources (retired)
Gene Lilly, Corps of Engineers, Tulsa District

Assembly & Use of a Decision Support System in an Efficient Drinking Water Distribution
Planning of Public Rural Water Supply Systems in Northeastern Oklahoma
Anna Childers, OSU

Tribal Water Quality: A Cherokee Nation Perspective
Cara Cowan Watts, Cherokee Nation Tribal Council

12:30 **Luncheon**

Mark Nichols, OWRB Chairman

OWRRI Student Poster Competition Winner Announcement

EPA Pisces Award Presentation

Oklahoma Water Pioneer Awards

Water Planning at the Federal Level

John Paul Woodley, Jr., Assistant Secretary of the Army, Civil Works, Corps of Engineers

2:00 **Oklahoma Legal Briefs**

Attorney General Drew Edmondson

2:20 **Conservation as a Planning Tool**

Gary Mast, Deputy Undersecretary for Natural Resources & the Environment, USDA

2:40 **Water Plan Update**

Overview of the Oklahoma Comprehensive Water Plan

Duane Smith, OWRB Executive Director

OCWP Public Participation

Dr. Will Focht, Director, Oklahoma Water Resources Research Institute

Private Sector Partnering

John Rehring, Vice President, Camp Dresser & McKee, Inc.

3:25 **Break**

3:40 **Kansas Water Plan**

Tracy Streeter, Director, Kansas Water Office

4:00 **OCWP Forum**

Oklahoma Water: Envisioning the Next 50 Years. Moderator: Dr. John Luthy

Terry Peach, Oklahoma Secretary of Agriculture

Ron Stahl, Discover Oklahoma, Oklahoma Tourism & Recreation Dept.

Zach Taylor, Executive Director, Association of Central Oklahoma Governments

Howard (Bud) Ground, Manager, State Governmental & Environmental Affairs, Public Service Company of OK

Tom Buchanan, General Manager, Lugert-Altus Irrigation District

5:30 **Adjournment to Reception**

6:30 **"Celebration of Oklahoma Water" Banquet**

Thursday, October 25 (Rooms A & B)

8:00 Registration

8:15 **Welcomes & Remarks**

Duane Smith, OWRB Executive Director

8:30 **Sustainable Water Planning**

Miles Tolbert, Oklahoma Secretary of the Environment

8:50 **Bureau Update**

Robert W. Johnson, Commissioner, Bureau of Reclamation

9:10 **Responding to Climate Change**

Dealing with Climate Change in Oklahoma

Ken Crawford, State Climatologist, Oklahoma Climatological Survey

The National Water Program Strategy

James R. Brown, Chief, Planning and Analysis Branch, U.S. Environmental Protection Agency, Region 6

10:00 **Break**

10:15 **A View from the State Legislature**

Senator Glenn Coffee, Co-President Pro Tempore

Senator Jay Paul Gumm, Co-Chairman, Energy & Environment Committee

Representative Guy Liebmann, Chairman, General Government & Transportation Committee

Representative Skye McNeil, Vice-Chair, Natural Resources Committee

11:00 **Water Outlook from Washington DC**

Oklahoma's Congressional Delegation

Adjournment

2007 Oklahoma Water Pioneers



Ken Crawford



Jerry Johnston



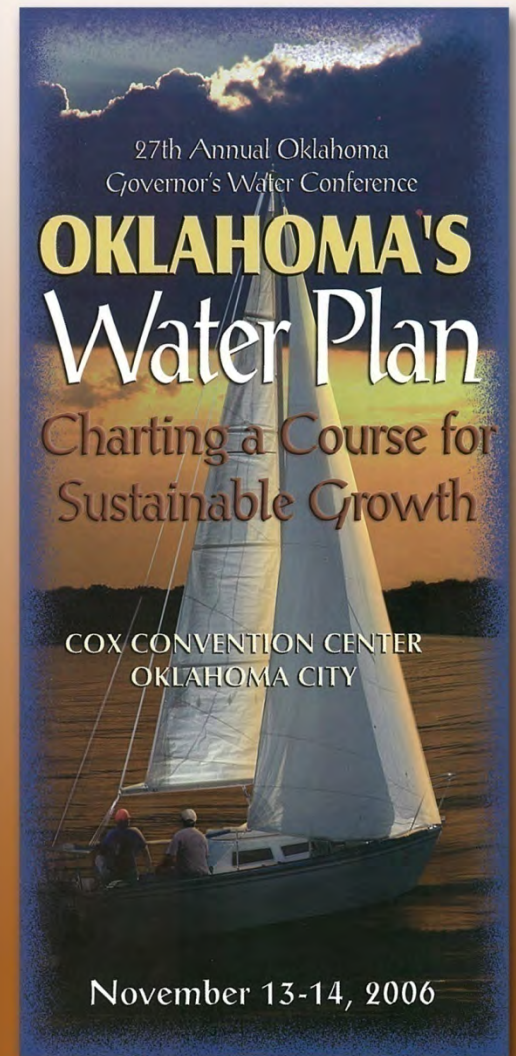
Don Kiser

MONDAY, NOVEMBER 13, 2006

- 1:00 REGISTRATION**
- 1:30 Welcome and Overview**
Duane A. Smith, Executive Director, OWRB
Rep. Guy Liebmann
- 1:50 Comprehensive Water Planning in New Mexico**
John D'Antonio, New Mexico State Engineer
- 2:10 Panel—Oklahoma's Water Planning Process**
OCWP Study Organization and Management
Mike Mathis, OWRB Water Plan Coordinator
Stakeholder Involvement and Participation
Dr. Will Focht, Director
Oklahoma Water Resources Research Institute
Water Infrastructure Inventory
Trish Weedn, Executive Director
Oklahoma Association of Regional Councils
Federal Planning Assistance
Sue Haslett, Planning and Environmental
Division Chief, U.S. Army Corps of Engineers
Tulsa District
- 3:10 Partnerships in Regional Water Planning**
Representative of U.S. Bureau of Reclamation
- 3:25 Break**
- 3:40 Future Water Policy Considerations**
Rudy Herrmann, OWRB Chairman
- 3:55 Planning for Environmental Protection**
Steve Thompson, Executive Director
Oklahoma Dept. of Environmental Quality
- 4:10 Banking on Bristow's Water Future**
Kel Kelly, President, Spirit Bank
- 4:25 Panel—Incorporating Water User Concerns**
Municipal Interests
Danny George, Executive Director
Oklahoma Municipal League
Agricultural Interests
Terry Peach, Secretary of Agriculture
Industrial/Navigation Interests
Ronn Cupp, Senior Vice President
Government Affairs, The State Chamber
- 5:10 Watershed Planning in Oklahoma**
Clay Pope, Executive Director
Oklahoma Association of Conservation Districts
- 5:25 Summary & Adjournment to Reception**

TUESDAY, NOVEMBER 14, 2006

- 8:00 REGISTRATION**
- 8:30 Welcome and Introductions**
Rudy Herrmann, OWRB Chairman
- 8:45 Keynote: The Worst Hard Time**
Timothy Egan, Author
- 9:30 The Oklahoma Drought**
Ken Crawford, Director
Oklahoma Climatological Survey
- 9:50 Coffee Break/Exhibits**
- 10:10 Update of the Oklahoma Comprehensive Water Plan**
Duane Smith, OWRB Executive Director
- 10:30 State of the State's Environment**
Miles Tolbert, Secretary of Environment
- 10:50 Legal Considerations in Oklahoma Water Planning**
Gary D. Allison, Professor of Law
University of Tulsa
- 11:10 Oklahoma's Future: Strategies for Our 2nd Century**
Larry Rice, Executive Assistant to the President
University of Tulsa
- 11:30 Oklahoma Legal Briefs**
Attorney General Drew Edmondson
- Noon LUNCHEON PROGRAM**
Gubernatorial Address
Oklahoma Water Pioneer Awards
Water Outlook from Washington D.C.
Michele Nellenbach, Senior Professional Staff
Member, U.S. Senate Committee on
Environment & Public Works
State Legislative Water Perspective
Rep. Lance Cargill, House Speaker Designate
Rep. Don Armes
Sen. Charlie Laster
- 2:30 Adjournment**



2006 OKLAHOMA WATER PIONEERS

W. C. Austin
Ervin Mitchell

Investing in Water

It's Time for Action!

Oklahoma Groundwater Symposium

TUESDAY, NOVEMBER 1

- 1:00 Registration
- 1:30 **Welcome and Overview**
Duane A. Smith, Executive Director, OWRB
Rep. Curt Roggow
- 1:40 **Keynote Address--Water Follies: Ground Water Pumping and the Fate of America's Fresh Waters**
Robert Glennon, Professor, Univ. of Arizona College of Law
- 2:25 **Oklahoma Groundwater Law**
Dean Couch, General Counsel, OWRB
- 2:40 **Oklahoma's Dependence on Groundwater**
Kim Winton, Director, OK Water Science Center, USGS
- 2:55 **Pitfalls in Groundwater Planning**
Todd Hallhan, Professor of Geology, OSU
- 3:10 **Break**
- 3:25 **Unconstitutional Takings of Water Interests**
James H. Davenport, Esq., Chief
Water Division, Colorado River Commission of Nevada
- 3:45 **Groundwater Quality Standards & Implementation**
Derek Smithee, Water Quality Division Chief, OWRB
- 4:00 **Groundwater Panel**
The Water Well Drilling Industry: Protecting Our Groundwater
Cheryl Cohenour, Cherokee America Drilling
(CRC&Associates)
Developments in USGS Groundwater Research:
Age-Dating Groundwater
Scott Christenson, Hydrologist, USGS
Arsenic in Our Groundwater: A Municipal Approach
Brad Gambill, City Manager, Norman, Oklahoma
Arbuckle-Simpson Hydrology Study Update
Noel Osborn, Geologist, OWRB
- 5:00 **Adjourn to Reception**

WEDNESDAY, NOVEMBER 2

- 8:00 **Registration**
- 8:30 **Welcome and Introductions**
Rudy Herrmann, OWRB Chairman
Pete White, Chairman, Oklahoma City Water Utilities Trust
- 8:50 **State of the State's Water**
Duane A. Smith, OWRB
- 9:10 **Water for the Environment**
Miles Tolbert, Secretary of Environment
- 9:30 **Water for Agriculture**
Terry Peach, Secretary of Agriculture
- 9:50 **Helping Oklahoma's Small Communities**
Steve Thompson, Executive Director
Oklahoma Department of Environmental Quality
- 10:10 **Break/Exhibits**
- 10:25 **Federal Water Resources Development & Planning Panel**
U.S. Army Corps of Engineers Activities
Colonel Miroslav Kurka, Tulsa District Engineer
Bureau of Reclamation Activities
Mike Ryan, Great Plains Regional Director
Natural Resources Conservation Service Activities
Larry Caldwell, National Policy Coordinator
Watershed Rehabilitation
- 11:25 **Protecting the Nation's Waters**
Susan Branning, Assistance Branch Chief, EPA Region 6
- 11:45 **Illinois River Update**
Drew Edmondson, OK Attorney General
- Noon **Luncheon Program**
Luncheon Address
Lt. Governor Mary Fallin
Oklahoma Water Pioneer Awards
Water Outlook from Washington D.C.
Oklahoma's Congressional Delegation
Blu Hulsey, Majority Counsel, U.S. Senate Committee
on Environment & Public Works
Oklahoma State Legislative Update
Sen. Richard Lerblance, Rep. Susan Winchester,
Sen. Kenneth Corn, Rep. Don Armes, Sen. Jeff Rabon
- 3:00 **Adjournment**



2005 Oklahoma Water Pioneers



Jay Galt, 1943-2005 Julian Fite, 1945-2005

OKLAHOMA WATER. A QUALITY OF LIFE

25th Annual Governor's Water Conference

October 19-20, 2004

Tuesday, October 19

A Symposium on Tribal Claims and Water

- 1:00 **Registration**
- 1:30 **Welcome & Overview**
Duane A. Smith, OWRB Executive Director
Justice Yvonne Kauger, Oklahoma Supreme Court
- 1:50 **Land of Many Cultures: American Indians in Oklahoma**
Bob Blackburn, Director, Oklahoma Historical Society
- 2:10 **Coordination of State/Tribal Water Quality Administration**
Miles Tolbert, Oklahoma Secretary of the Environment
- 2:30 **Negotiating Indian Water Rights Claims**
Susan Cottingham, Director, Montana Reserved Water Rights Compact Commission
- 2:50 **EPA Perspective on Tribal Water Claims**
Chuck Sheehan, Regional Counsel, U.S. Environmental Protection Agency
- 3:10 **Break**
- 3:25 **Congressional Viewpoint**
Ryan Jackson, Counsel, Senate Environment and Public Works Committee
- 3:45 **Town of Taos & Aboya Water Right Adjudication**
Tomas Benavidez, Town Attorney, Taos, New Mexico
- 4:05 **Tribal Perspectives**
Chad Smith, Principal Chief, Cherokee Nation
John Berrey, Chairman, Quapaw Tribe
Bill Anoctabby, Governor, Chickasaw Nation
- 5:05 **Resolution of Tribal Water Claims**
Lindsay Robertson, Associate Professor, OU College of Law
- 5:25 **Adjournment to Reception**

Wednesday, October 20

Governor's Water Conference Program

- 8:00 **Registration**
- 8:30 **Welcome and Introductions**
Ervin Mitchell, OWRB Chairman
- 8:35 **Video - "Oklahoma Water: A Quality of Life"**
- 9:05 **Keynote Address**
Lt. Governor Mary Fallin
- 9:20 **Congressional Senate Candidate Forum**
Representative Brad Carson
Dr. Tom Coburn
- 9:50 **Water Development Infrastructure Financing**
Scott Meacham, Director, Oklahoma Office of State Finance
- 10:05 **Planning for the Future of the Grand River Basin**
Kevin Easley, General Manager, Grand River Dam Authority
- 10:20 **Break / Exhibits**
- 10:35 **Infrastructure Financing Panel**
Moderator: Joe Freeman, OWRB
Ted Lockin, Mayor of Bartlesville
Dennis Krueger, General Manager, Kiwash Electric Cooperative
Dr. Joe Taron, Chairman, Pattawatamie Co. Dev. Authority
Chris Cochran, Senior Vice President, Capital West
- 11:30 **Water Magazine**
Oklahoma River Development Project
Jim Hasenbeck, Studio Architecture, Oklahoma City
Arkansas River Vision Plan
Kevin Conner, Carter & Burgess, San Antonio, TX
Navigation Update
Scott Robinson, Director, Port of Muskogee
Interstate Compact News
Diek Seybolt, Chairman, Arkansas-Oklahoma Arkansas River Compact Commission
- 12:15 **Luncheon Program**
Oklahoma Water Pioneer Awards
State of the State's Water
Duane Smith, OWRB Executive Director
Miles Tolbert, Oklahoma Secretary of the Environment
Water Outlook from Washington D.C.
Oklahoma's Congressional Delegation (invited)
Oklahoma State Legislative Water Perspective
House Speaker-Elect Jari Askins
Representative David Braddock
Senator Johnnie Crutchfield
Senator Jay Paul Gunn
- 2:30 **Adjournment**

Coordinated by The Oklahoma Water Resources Board
Duane A. Smith, Executive Director

Registration Coordinator: Mary Nell Brueggen

Conference Coordinators: Mike Melton, Mary Schooley,
Brian Vance, Darla Whitley, and Barry Fogerty



2004 Oklahoma Water Pioneers

Glenn Sullivan Joe Taron



The 24th Annual Governor's Water Conference

All Things Water

November 4-5, 2003

Cox Convention Center
Oklahoma City

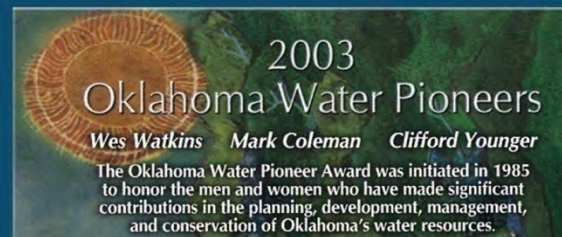
November 4

Arbuckle Simpson Aquifer Symposium

- 1:00 Registration
- 1:30 Welcome and Introductions
*Grady Grandstaff, Chairman
Oklahoma Water Resources Board*
- 1:45 Water 2025 Initiative: Preventing Crises and Conflict
John Keys, Commissioner, Bureau of Reclamation
- 2:05 Can Private Property Rights be Protected Without Strong Regulations?
*Gregory Ellis, General Manager
Edwards Aquifer Authority (San Antonio)*
- 2:25 Water Law Issues in Senate Bill 288
*Drew L. Kershen, Earl Sneed Centennial Professor
University of Oklahoma*
- 2:45 Coffee Break
- 3:00 Study Overview and Technical Challenges
*Moderator: Duane Smith, OWRB Executive Director
Randall Ross, U.S. Environmental Protection Agency
Noel Osborn, OWRB
Neil Suneson, Oklahoma Geological Survey
Scott Christenson, U.S. Geological Survey*
- 4:00 Local Water Management Issues
*Dick Scalf, Ada Water Resources Board
Jim Crosby, Manager, City of Yukon
Senator Jay Paul Gumm
Representative Susan Winchester*
- 5:00 Adjournment
- 6:00 Reception

November 5

- 8:00 Registration
- 8:30 Welcome and Introductions
*Grady Grandstaff, Chairman
Oklahoma Water Resources Board*
- 8:50 Keynote Address
Governor Brad Henry
- 9:10 State of the State's Water
*Duane Smith, Executive Director
Oklahoma Water Resources Board*
- 9:30 Western States Water Issues
*Paul Sweeney
NRCS Liaison to Western Governor's Association*
- 9:50 EPA Update
*Miguel Flores, Director of Water
EPA Region 6*
- 10:10 Corps of Engineers Activities
*Christine Altendorf
Tulsa District, U.S. Army Corps of Engineers*
- 10:30 Coffee Break/Exhibits
- 10:45 Cabinet Secretary Panel - Water for the Environment, Agriculture, Tourism and Recreation, and Transportation
*Miles Tolbert, Secretary of Environment
Terry Peach, Secretary of Agriculture
Kathryn Taylor, Secretary of Commerce & Tourism
Phil Tomlinson, Secretary of Transportation*
- 12:00 Luncheon Program
U.S. Coast Guard Public Service Awards
Oklahoma Water Pioneer Awards
Featured Luncheon Speaker, George Nigh
Water Outlook from Washington DC
*Oklahoma Congressional Delegation (invited)
State Legislative Water Perspective
Speaker Larry Adair
Representative Jari Askins
Representative Danny Hilliard
Senator Jay Paul Gumm*



23rd Annual

Oklahoma

Governor's Water Conference

Coordinated by the Oklahoma Water Resources Board

October 9, 2002

Adams Mark Hotel &
Conference Center
Tulsa, Oklahoma

Celebrating Water

Past Successes/Future Challenges

AGENDA

8 a.m. Registration

8:30 Welcome

Grady Grandstaff, Chairman
Oklahoma Water Resources Board
Bill LaFortune, Mayor
City of Tulsa

8:50 Addressing Interstate Water Quality Issues

Brian Griffin, Secretary of Environment
State of Oklahoma

9:10 Celebrating 30 Years of Clean Water

Allan Stokes, Chief Operations Officer
America's Clean Water Foundation

9:30 Tribal Water Rights and Water Quality Administration

Taiawagi Helton, Professor
University of Oklahoma College of Law
Lindsay G. Robertson, Associate Professor
University of Oklahoma College of Law
Michael Brophy, Attorney
Ryley, Carlock & Applewhite

10:30 Coffee/Exhibits

10:45 A Century of Water for the West: The Bureau of Reclamation's Centennial Celebration

Larry Walkoviak, Manager
OK-TX Area Office, Bureau of Reclamation

11:05 The Legal Ramifications of Water Transfer

Drew L. Kershen, Earl Sneed Centennial
Professor, University of Oklahoma
Gary Allison, Professor
University of Tulsa College of Law

11:40 Science for a Changing World

Kim T. Winton, Oklahoma District Chief
U.S. Geological Survey

Noon Luncheon Program

OK Water Pioneer Awards

State of the State's Water

Duane A. Smith, Executive Director
Oklahoma Water Resources Board

The Outlook from Washington D.C.

Oklahoma's Congressional Delegation

State Legislative Outlook

Sen. Rick Littlefield
Sen. James Dunlap
Rep. M.C. Leist
Rep. Mark Liotta

Oklahoma's Gubernatorial Candidates

Brad Henry
Steve Largent
Gary Richardson

2:30 Adjournment



Celebrating Water

Past Successes/Future Challenges

TWENTY-THIRD ANNUAL OKLAHOMA GOVERNOR'S WATER CONFERENCE - OCTOBER 9, 2002

2002

OKLAHOMA WATER PIONEERS

Frank Condon

Mae Cooper

Murray Williams

The **Oklahoma Water Pioneer Award** was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management, and conservation of Oklahoma's water resources.

"Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms, and industries."

Agenda

8:a.m. Registration

2nd Level - Myriad Convention Center

8:30 Welcome

Grady Grandstaff, Chairman, Oklahoma Water Resources Board

8:40 Governor's Address

Frank Keating, Governor of Oklahoma

9:00 State/Tribal Water Compact and Water Marketing Update

Howard Barnett, Governor Keating's Chief of Staff and a representative of the Choctaw and/or Chickasaw Nation

9:30 Thirsting for Power: Potential Impact of New Powerplants on Oklahoma Water Supplies

Ted Coombes, President, Southwest Power Resources Association

9:50 Water Gazette

Terrorism - Protecting Our Water Sources

Albert Ashwood, Director, Oklahoma Department of Civil Emergency Management

Compacting to Protect State Water Rights

Dean Couch, General Counsel, Oklahoma Water Resources Board

Well Drillers Advisory Council

Danny Ewbank, Ewbank Inc. Fairview, Oklahoma

Economic Impact of the McClellan-Kerr Arkansas River Navigation System

Scott Robinson, Director Port of Muskogee

10:20 Coffee/Exhibits

10:40 National Agenda for Water

Roberta (Robbi) Savage, Executive Director, Association of State and Interstate Water Pollution Control Administrators - Washington DC

11:00 Big Plans for Small Systems

Robert Johnson, CEO, National Rural Water Association, Duncan, Oklahoma

11:20 Meeting Oklahoma's Future Water Infrastructure Financing Needs

Gene Rainbolt, Chairman of the Board, BancFirst

22nd Annual Governor's Water Conference

Water

the KEY to
Oklahoma's Future

November 14, 2001 - Myriad Convention Center - Oklahoma City, Oklahoma

11:40 Oklahoma Comprehensive Water Plan - a New Focus

Duane Smith, Executive Director, Oklahoma Water Resources Board

12:00 Noon - Luncheon Program

The Texas Water Plan, a Regional Approach

Texas State Senator J. E. "Buster" Brown

Washington DC Outlook

Oklahoma Congressional Delegation

State Legislative Outlook

Senator Cal Hobson, Vice Chairman, Senate Appropriations Committee, Oklahoma State Senate

Senator Jim Dunlap, Republican Floor Leader, Oklahoma State Senate

Representative Larry Adair, Speaker, Oklahoma House of Representatives

Rural Economic Action Plan (REAP)

Announcement of 2002 Grant Recipients
Mr. Smith

Oklahoma Water Pioneer Awards

Mr. Grandstaff, Mr. Smith

2:30 Adjournment

2001 Oklahoma Water Pioneer Awards

Robert Johnson
Phillip B. Lorenz
Ken McFall
James H. Norick

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's water resources.

Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

OKLAHOMA WATER

Shaping The Future

November 15, 2000

Program



21st Annual GOVERNOR'S WATER CONFERENCE

Myriad Convention Center
Oklahoma City, Oklahoma

- 8 a.m. **Registration**
2nd Level – Myriad Convention Center
- 8:30 **Welcome**
Lonnie Farmer, Chairman
Oklahoma Water Resources Board
- 8:40 Governor Frank Keating
- 9:00 **Water for Oklahoma City's Future**
Mayor Kirk Humphreys, Oklahoma City
- 9:20 **Water for Oklahoma: The Kiamichi Basin Plan**
Brian C. Griffin, Secretary of Environment
- 9:40 **The Waste by Pollution Ruling**
Duane A. Smith, Executive Director
Oklahoma Water Resources Board
- 10:00 **The Importance of Research in Weather Modification Planning**
Dr. Kelvin Droegemeir, Director
Center for Analysis and Prediction of Storms – University of Oklahoma
- 10:20 **Coffee/Exhibits**
- 10:40 **The Continuing Development of the McClellan-Kerr Arkansas River Navigation System**
Scott Robinson, Director
Port of Muskogee
- 11:00 **New Protection for the Nation's Waters**
Gregg Cooke, Administrator, Region 6
U.S. Environmental Protection Agency
- 11:20 **Endangered Species – The Ultimate Trump Card**
William H. Satterfield, Attorney
Balch & Bingham, Birmingham, AL
- 12:00 **Luncheon Program**
- Gold on Tap – Water in the 21st Century**
T. Boone Pickens, President, CEO
Mesa Water, Inc., Dallas, TX

Washington D.C. Outlook

State Legislative Outlook

Senator Billy Mickel
Majority Floor Leader, Oklahoma Senate

Senator Jim Dunlap
Incoming Republican Floor Leader
Oklahoma Senate

Representative Larry Adair
Speaker-Elect
Oklahoma House of Representatives

Representative Randall Erwin
Chairman, Natural Resources Appropriations
and Budget Subcommittee
Oklahoma House of Representatives

Others Invited

Rural Economic Action Plan (REAP)

Announcement of 2001 Grant Recipients
Mr. Smith

Oklahoma Water Pioneer Awards

Mr. Farmer, Mr. Smith

2:30 **Adjournment**

2000 Water Pioneers

*Michelle (Mike) Henson
James C. Leake
Jim C. Murphy*

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Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

November 17, 1999

Agenda

8 a.m. Registration

8:30 Welcome

Lonnie Farmer, Chairman
Oklahoma Water Resources Board

8:35 Lieutenant Governor Mary Fallin

8:50 Water Quality Issues 2000 and Beyond

Carolyn S. Richardson
Director of Environmental Advocacy
California Farm Bureau Federation

Gregg Cooke
Administrator, Region 6
U.S. Environmental Protection Agency

Patsy Bragg, Chair
Tulsa Metropolitan Utility Authority

9:45 Water for Oklahoma 2000

PANEL
Chuck Thomas, Member
Stillwater City Commission

Gene Whately, Executive Director
Oklahoma Rural Water Association

Zach D. Taylor, Executive Director
Association of Central Oklahoma Governments

Purcy Walker, Commissioner
Beckham County District 3

10:25 Break - Coffee/Exhibits

10:45 The Federal Agencies Look Ahead
PANEL

Col. Leonardo V. Flor, District Engineer
U.S. Army Corps of Engineers
Tulsa District

Mark F. Becker, Hydrologist
U.S. Geological Survey



Oklahoma Water 2000: BLUEPRINT FOR THE FUTURE

20th Annual
Governor's Water Conference

Larry Caldwell, State Conservation Engineer
Natural Resources Conservation Service

Elizabeth Cordova-Harrison, Area Manager
Oklahoma - Texas Area, Bureau of Reclamation

11:30 The Industry Underwrites Hail Suppression

Carroll Fisher, Insurance Commissioner
Oklahoma Insurance Department

11:50 Kiamichi River Basin Plan: Deadline 2/2000

Greg Pyle, Chief
Choctaw Nation

Duane A. Smith, Executive Director
Oklahoma Water Resources Board

12:40 p.m. Luncheon Program

Introductions – Mr. Farmer

Water Pioneer Awards

Mr. Farmer, Mr. Smith

Legislative Outlook – 21st Century

Congressman Ernest Istook
Congressman Frank Lucas
Congressman Wes Watkins
Speaker Loyd Benson, House of Representatives
Representative Randall Erwin
Representative Larry Rice
Senator Mark Snyder
Senator Rick Littlefield

Luncheon Address

Larry Watkins, General Manager
Electric Cooperatives of Oklahoma

Grant Presentation 2000 Ceremony
Rural Economic Action Plan (REAP)

Representative Mike Mass
Mr. Smith

2:30 Adjournment

Mr. Farmer

1999 Oklahoma
Water Pioneer Awards

*Sidney D. Williams
James Eddie Phillips
Jimmie Pigg*

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's water resources.

Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

AGENDA

9:30 *Registration, Coffee, Exhibits*

10:00 *Welcome*

J. Ross Kirtley, Chairman
Oklahoma Water Resources Board

Welcome to Muskogee

Jim Bushnell, Mayor

10:15 *National Outlook for Water Development*

Dr. Joseph W. Westphal
Assistant Secretary of the Army
for Civil Works

10:40 *The Corps' Mission in Oklahoma*

Col. Leonardo V. Flor, District Engineer
Tulsa District, U.S. Army Corps of
Engineers

11:00 *State of the State's Environment*

Duane A. Smith, Executive Director
Oklahoma Water Resources Board

Dennis V. Howard, Secretary of Agriculture

Mike Thralls, Executive Director
Oklahoma Conservation Commission

Jon L. Craig, Director, Water Quality Division
Oklahoma Department of Environmental
Quality

12:00 *Luncheon Program*

Musical Interlude
Parkview School Jazz Band
Jim Gilmartin, Director

Introductions - Mr. Kirtley

Legislative Update
Sen. Ben Robinson, Sen. Rick Littlefield
Rep. Bill Settle, Rep. Larry Adair

The Honorable Frank Keating
Governor of Oklahoma

Oklahoma Water Pioneer Awards
Mr. Smith

1:40 *Insight to Oklahoma Water Law*

Drew Edmondson, Attorney General
State of Oklahoma

2:00 *Native American Issues*

Chris Kenney, Native American Coordinator
U.S. Department of Interior, Bureau of
Reclamation

Joe Byrd, Principal Chief
Cherokee Nation

Bill Anoatubby, Governor
Chickasaw Nation

2:45 *Is Drought Our Destiny?*

Albert Ashwood, Director
Oklahoma Department of Emergency
Management

Dr. Kenneth C. Crawford, Director
Oklahoma Climatological Survey

3:10 *Environmental Initiatives for Oklahoma*
Brian C. Griffin, Secretary of Environment

Patsy Bragg, Vice-Chair,
Tulsa Metropolitan Utility Authority

3:40 *A Delicate Balance:
Environment and Economy*

Gregg Cooke, Region 6 Administrator
U.S. Environmental Protection Agency

4:00 *Adjournment* - Mr. Kirtley

1998 Oklahoma Water Pioneer Awards

Bill Secret
Robert W. "Bob" Portiss

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's water resources.

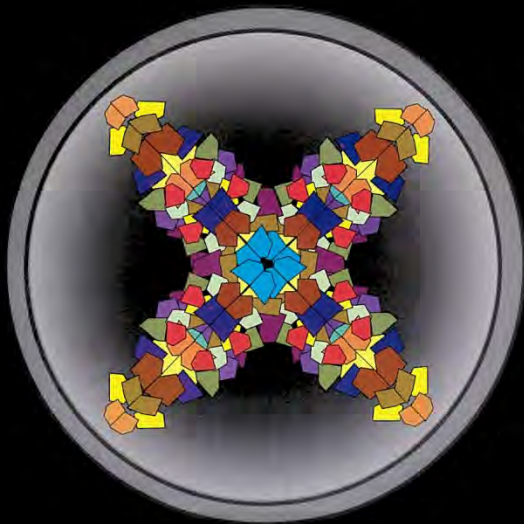
Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

*Rollin' on the River
Toward Changin' Times*



19th Annual
Governor's Water Conference

Muskogee, Oklahoma
September 29-30, 1998



OKLAHOMA WATER

A KALIDOSCOPE OF ISSUES

18th Annual Governor's Water Conference

November 5, 1997
Marriott Hotel - Oklahoma City

AGENDA

- 8:00 **Registration**
- 8:30 **Welcome**
J. Ross Kirtley, Chairman
Oklahoma Water Resources Board
- 8:45 **Native American Water Issues**
Larry EchoHawk
Professor of Law, Brigham Young University
- Bob Rabon, General Counsel
Choctaw Nation, Chickasaw Nation
- Tim Vollmann, Regional Solicitor
SW Region, U.S. Department of Interior
- 9:50 **Coffee, Networking, Exhibits**

- 10:10 **State Agency Issues**
Panel Moderator: Richard Sevenoaks, Member
Oklahoma Water Resources Board
- Duane A. Smith, Executive Director
Oklahoma Water Resources Board
- Mark S. Coleman, Executive Director
Oklahoma Department of Environmental Quality
- Dennis V. Howard, Commissioner
Oklahoma Department of Agriculture
- John Hassell, Director, Water Quality Programs
Oklahoma Conservation Commission
- 11:00 **Can Good Water and Poultry Production Co-Exist?**
M. Susan Savage, Mayor
City of Tulsa
- 11:20 **Legal and Environmental Issues Affecting Animal Feeding Operations**
Janie Simms Hipp, Attorney
National Agricultural Law and Research Center
- 11:45 **Interstate Water Gazette**
Moderator
Glen Cheatham, Jr., Executive Vice-President
Arkansas Basin Development Association

Here Comes El Nino
Ken Crawford, State Climatologist
Oklahoma Climate Survey

The Arkansas Shiner Minnow
Jerry Brabander, Field Supervisor
Tulsa Office, U.S. Fish & Wildlife Service

Weather Modification
Patrick H. Sweeney, President
Weather Modification, Inc., Fargo, N.D.

12:30 **Luncheon Program**
Introductions - Mr. Kirtley

Brian Griffin, Secretary of Environment
Chairman, Governor's Animal Waste and
Water Quality Protection Task Force

Legislative Issues

Speaker Loyd L. Benson
Oklahoma House of Representatives

Senator Billy Mickle
Majority Floor Leader, Oklahoma Senate

Senator Bill Gustafson
Senate Minority Leader

Representative Larry Rice
Chairman, House Committee on Energy,
Environment and Natural Resources

Representative Al Sadler
Chairman, Natural Resources Subcommittee
House Appropriations and Budget Committee

Oklahoma Water Pioneer Awards
Duane A. Smith, Executive Director

2:30 Adjournment - Mr. Kirtley

1997 Oklahoma Water Pioneer Awards

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's Water Resources.

Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

Wayne A. Pettyjohn, Ph.D.
Lonnie L. Farmer
John "Jack" Story, Jr.

Seventeenth Annual Governor's Water Conference

November 20, 1996
Marriott Hotel - Oklahoma City

*"Working Together in Managing 21st
Century Water Resources"*

AGENDA

- 8:00 *Registration*
- 8:30 *Welcome*
J. Ross Kirtley, Chairman
Oklahoma Water Resources Board
- 8:45 *Forging Unity from Diversity on Capitol Hill*
J.D. Williams, Washington, D.C. Attorney
Specialist in Legal and Political Affairs
- 9:10 *Panel - Partners in Infrastructure Financing*
Moderator:
Gary L. Sherrer, Executive Director
Oklahoma Water Resources Board
- Charles P. Rainbolt, State Director
Rural Development
- James G. Fulmer, President, CEO
Oklahoma Finance Authorities
- Joe S. Freeman, Chief
Financial Assistance Division
Oklahoma Water Resources Board
- Leo Presley, Director
Oklahoma Department of Commerce
- 10:15 *Coffee, Networking, Exhibits*
- 10:35 *Partnering with the States in Regulation*
William B. Hathaway, Director
Water Quality Protection Division
Region 6, U.S. EPA
- 11:00 *Teamwork in Tempering Drought*
Dr. Donald A. Wilhite, Director
National Drought Mitigation Center
University of Nebraska - Lincoln



*Working Together
in Managing 21st Century
Water Resources*

Seventeenth Annual Governor's Water Conference

- 11:25 *Cloud Seeding as a Water Management Tool*

Patrick H. Sweeney, President
Weather Modification, Inc., Fargo, N.D.
- 11:50 *Luncheon Program*
Introductions - Mr. Kirtley
- The Honorable Frank Keating
Governor of Oklahoma
- The View from the State Capitol
Senator Robert M. Kerr
Chairman, Senate Rules Committee
- Speaker-Elect Loyd L. Benson
Oklahoma House of Representatives
- Representative Mike Mass, Chairman
Subcommittee on Natural Resources,
Appropriations and Budget Committee
- The View From Capitol Hill
Senator Don Nickles
Other Members of the
Congressional Delegation Invited
- Oklahoma Water Pioneer Awards
- 2:30 *Adjournment - Mr. Kirtley*

1996 Oklahoma Pioneer Awards

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's water resources.

Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns, farms and industries.

Senator Henry Bellmon
James M. Hewgley, Jr.
Ladd Hitch
Phillip Klutts
Donald R. Vandersypen

November 15, 1995

Sixteenth Annual
Governor's Water Conference

**The Shifting Federal Role:
Oklahoma's Opportunity to Redefine
Water Policies**

- 8:00 Registration
- 8:30 Welcome
J. Ross Kirtley, Chairman
Oklahoma Water Resources Board
- 8:45 Budgets in Crisis: If They Hand You
a Lemon, Make Lemonade!
D. Craig Bell, Executive Director
Western States Water Council
- 9:05 Panel - The Downsizing Dilemma
Moderator: Christopher J. Brescia
Executive Director, Midwest Area
River Coalition - MARC 2000
- Col. Timothy L. Sanford
Commander, Tulsa District
U.S. Army Corps of Engineers
- A. Stanley Meiburg, Deputy Regional
Administrator, U. S. Environmental
Protection Agency, Region 6
- Charles Rainbolt, State Director
Rural Economic
& Community Development
- Elizabeth Harrison, Area Manager
Bureau of Reclamation
- 10:20 Questions and Answers
- 10:25 Coffee, Networking, Exhibits
- 10:45 The Honorable Frank Keating
Governor of Oklahoma
- 11:05 Panel - New Directions, New Destinies
Moderator: Dick Seybolt, Member
Oklahoma Water Resources Board
- Bill Moyer, Executive Director
Oklahoma Municipal League
- Rob Johnson, Chief Executive Officer
National Rural Water Association

November 15, 1995
the shifting federal role --
oklahoma's opportunity to redefine water policies

Ronn Cupp, Vice-President, Oklahoma
State Chamber of Commerce & Industry

Jarold Callahan, Executive Director
Oklahoma Cattlemen's Association

Scott Robinson, President
Arkansas Basin Development Association

12:20 Questions and Answers

12:30 Luncheon Program

Introductions, Remarks
Mr. Kirtley

Oklahoma Congressional Delegation
Questions & Answers

Oklahoma Comprehensive Water Plan
Gary L. Sherrer, Executive Director
Oklahoma Water Resources Board

Update from the Oklahoma Legislature
Speaker Glen Johnson
Representative Mike Mass
Senator Robert M. Kerr

Oklahoma Water Pioneer Awards
Mr. Kirtley, Mr. Sherrer

3:00 Adjournment - Mr. Kirtley

**1995 Oklahoma Water
Pioneer Awards**

The Oklahoma Water Pioneer Award was initiated in 1985 to honor the men and women who have made significant contributions in the planning, development, management and conservation of Oklahoma's water resources.

Their vision in water development inspired those less daring; their strength of conviction upheld us; their commitment to progress for all Oklahomans gave us abundant supplies of good water for our homes, cities, towns and industries.

- ♦ Norman N. Durham
- ♦ Billy Ray Wilson
- ♦ Oscar Hughes
- ♦ Paul E. Thornbrugh

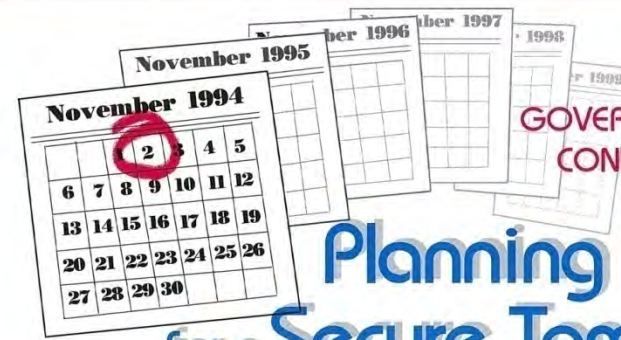
November 2, 1994
Marriott Hotel
3233 Northwest Expressway
Oklahoma City

**Fifteenth Annual
Governor's Water Conference**

Planning Today for a Secure Tomorrow

Agenda

- 8:00 a.m. Registration, Coffee**
- 8:30** **Introductory Remarks**
J. Ross Kirtley, Chairman
Oklahoma Water Resources Board
- 8:40** **Water Resources: Strategies
to Carry us Forward**
Senator Gene Stipe
Oklahoma Senate
- 9:00** **Oklahoma Comprehensive Water Plan**
Patricia P. Eaton
Executive Director, Oklahoma Water
Resources Board
- 9:20** **Sharing the Challenge: Floodplain
Management into the 21st Century**
Raymond "Buddy" Young
Region VI Administrator, Federal
Emergency Management Agency
- 9:45** **Coffee, Networking, Exhibits**
- 10:10** **Panel - Water Planning Issues
on the Horizon**
Moderator: Kathy D. Peter
District Chief, U. S. Geological Survey
- Agribusiness and Environmental Concerns**
Drew Kirshen
Professor of Law, College of Law
University of Oklahoma
- Indian Water Rights: The Tribal Perspective**
Phillip D. Lujan
Associate Professor, Department of
Communication, University of Oklahoma
- Neosho River Basin: Multistate
Planning and Multipurpose Uses**
Col. Otis Williams
District Engineer, Tulsa District
U.S. Army Corps of Engineers



**GOVERNOR'S WATER
CONFERENCE 1994**

**Planning Today
for a Secure Tomorrow**

Oklahoma's New Wetlands Strategy

Mason Mungle
Executive Director, Oklahoma
Conservation Commission

11:15 **Questions and Answers**

11:35 **The View from Capitol Hill**
Oklahoma Congressional Delegation

12:30 **Luncheon Program**

Introductions and Remarks
Mr. Kirtley

Oklahoma Water Pioneer Awards
Ms. Eaton/Mr. Kirtley

Legislative Committee Updates

Joint Committee on Financing Environment,
Infrastructure for Economic Development
Representative Randy Beutler, Co-Chairman

Kiamichi River Basin Water Supply Study
Senator Jack Bell, Chairman

Introduction of Gubernatorial Candidates
Patricia Acebo, President
League of Women Voters of Oklahoma

Lt. Governor Jack Mildren
Wes Watkins
Frank Keating

3:00 **Adjournment**
Mr. Kirtley



November 17, 1993

Marriott Hotel
3233 Northwest Expressway
Oklahoma City, OK

AGENDA

- 8:00 a.m. Registration, Coffee
- 8:30 **Introductory Remarks**
Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board
- Welcome**
Governor David Walters
- 9:00 **Federal Mandates: One Size Fits All?**
Mayor Susan Savage, City of Tulsa
- 9:25 **Communities in Crisis**
Ann Cole
Small Community Coordinator
U.S. Environmental Protection Agency
Office of Regional Operations
- 9:50 **Coffee Break**
- 10:15 **Panel: Meeting the Mandates
with Innovation**
- Moderator:** Connie Irby
Deputy Executive Director
Oklahoma Department of Commerce
- Panelists:**
Lonnie L. Farmer, Member, OWRB
Regional Rural Water Systems
- Wayne Hill, City Manager, Guymon
New Ways in Wastewater Treatment
- Lee Chew, County Commissioner
Washington County
Sales Tax Can Finance Infrastructure
- 11:15 **The View from Capitol Hill**
Oklahoma Congressional Delegation
- 11:45 **Luncheon Program**
- Introductions and Remarks**
Mr. Kerr

1:45

2:45



MANDATES WITHOUT MONEY

The Fourteenth Annual Governor's Water Conference - November 17, 1993

When EPA Came to Buffalo Gap
Robert E. Roberts, Secretary
South Dakota Department
of Environment and Natural Resources

Remarks
Members of the Oklahoma Legislature

Oklahoma Water Pioneer Awards
Duane A. Smith, Assistant Director
OWRB

Oklahoma Water Gazette
10-Minute News Updates

Moderator: Mike Henson
Member, OWRB

Consequences of Flooding
Jack Page, Manager
Development Services
City of Tulsa PWA

Navigation Fuel Taxes
Bob Portiss, Director
Tulsa Port of Catoosa

*Water Rights: Impact of the
Franco Decision*
Diane Pedicord, General Counsel
Oklahoma Municipal League

DEQ: The First Half-Year
Roger Miner, Chairman
Oklahoma Environmental Quality Board

Questions and Answers

Adjournment
Mr. Kerr

November 18, 1992
Marriott Hotel
3233 Northwest Expressway
Oklahoma City



Agenda

- 8 a.m.** Registration, Coffee
- 8:30** **Welcome**
Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board
- 8:45** **The Future of the Clean Water Act and The Safe Drinking Water Act**
Ben Lesser, Special Assistant
to the Assistant Administrator
for Water, U.S. Environmental
Protection Agency
- 9:10** **The Consequences of "Can't"**
Eric J. Groves, Attorney
Groves & Tague, Oklahoma City
- 9:30** **The Best Water in the Nation**
Governor David L. Walters
- 9:50** **Coffee Break**
- 10:05** **Drinking Water—the Widening Gap Between Needs and Resources**
Steven L. Elstein, Assistant
Director, Water Quality Issues
U.S. General Accounting Office
- 10:25** **Regional Systems—The Dallas Success Story**
Mike Marcotte, Director
Dallas Water Utilities
- 10:45** **Yes We Can! Financing Options**
Robert M. Cochran
Executive Vice-President
Stifel, Nicolaus & Co., Inc.
- 11:05** **How Can Small Systems Comply?**
Walter E. Hill
Deputy Under Secretary for Small
Community and Rural Development
U.S. Department of Agriculture
- 11:25** **Clean Water Act Impacts on Agriculture**
John Baker, Agriculture Advisor
to the Administrator—EPA

- 11:45** **Oklahoma Water Gazette**
10-Minute News Updates
Moderator: Glen Cheatham, Jr.
Executive Vice-President
Arkansas Basin Development Assoc.
- HB 2227—the Department of Environmental Quality (DEQ)**
Sen. Cal Hobson, Co-Chair
Joint Legislative Environmental
Task Force
- Navigation—Montgomery Point L&D**
Bob Portiss, Director
Port of Catoosa
- Water Research at the Universities**
Dr. Tom Collins, Director
Oklahoma State University Center
for Water Research
- 12:30** **Luncheon Program**
- Introductions and Remarks**
Mr. Kerr
- Remarks**
Congressman Mike Synar
- Other Members of the Congressional
Delegation
- Oklahoma Legislature
Sen. Kevin Easley
Rep. Larry Rice
- Oklahoma Water Pioneer Awards**
Patty Eaton, Executive Director
Oklahoma Water Resources Board
- Adjournment**
Mr. Kerr

Accommodations



Guestrooms are available at a special Conference rate of \$70 per night, single or double. Please make reservations by November 9 by calling the Marriott Hotel at (405) 842-6633.



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HOW CLEAN?



HOW COSTLY?



HOW CAN WE?

THIRTEENTH ANNUAL
GOVERNOR'S WATER CONFERENCE

Twelfth Annual Governor's Water Conference

December 18, 1991
Marriott Hotel
Oklahoma City

Groundwater Oklahoma's Buried Treasure

"How well will we manage it?"

Morning Agenda

8 a.m.

Registration, Coffee

8:30

Welcome

Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board

8:45

Keynote—New Respect for an Old Resource

Ramona Trovato, Director
Groundwater Protection Division
U.S. Environmental Protection Agency

9:10

Panel—Defining the Problems

Moderator:

Kathy Peter, District Chief
U.S. Geological Survey

Panelists:

David G. Boyer, Hydrogeologist
K. W. Brown Environmental Services
College Station, Texas

Kathy McNally, Director of National Affairs
Oklahoma Farm Bureau

Phil Brown, Chief
Community and Business Programs
Farmers Home Administration

10:10

Coffee Break

10:30

Panel—Protecting a Fragile Resource

Moderator:

Glenn Sullivan, Engineer
Sullivan & Associates

Panelists:

Dr. Larry W. Canter, Director
Environmental & Groundwater Institute
University of Oklahoma

David Pope, Chief Engineer
Kansas Division of Water Resources

Blaine Reely, Director of Public Works
City of Enid

11:30

The Washington Perspective

Rep. Mike Synar

Noon

Luncheon Program

Introductions, Remarks

Mr. Kerr

Address

Sen. Don Nickles

Observations from the Oklahoma Legislature

Sen. Ray Giles, Chairman
Senate Committee on Natural Resources
Rep. Larry Rice, Chairman
House Committee on Energy,
Environment and Natural Resources

Oklahoma Water Pioneer Awards

Patty Eaton, Executive Director
Oklahoma Water Resources Board

Adjournment—Mr. Kerr

The 1991 Oklahoma Water Pioneers

The Oklahoma Water Pioneer Awards were initiated in 1985 to recognize those men and women who have made significant contributions in the management, planning, development and conservation of Oklahoma's water resources.

Their vision inspired those less daring; their strength of conviction upheld us; their devotion to progress for all Oklahomans provided abundant supplies of good water for our homes, cities, farms and industries.

Gov. Raymond Gary

Ed Edmondson

Heber Finch

Jack Grimmitt

Eleventh Annual

OKLAHOMA WATER CONFERENCE

December 5, 1990
Marriott Hotel
Oklahoma City

Drowning In The High Cost Of Water

Drowning in the High Cost of Water

A strategy conference to cope with the ever increasing costs of providing water to the public. The issue is multi-faceted: the reduction in federal funds, increased cost-sharing and user fees and compliance costs of new EPA regulations.

Agenda

8 a.m. Registration, Coffee

8:30 Welcome—Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board

8:40 Keynote
Drowning in the High Cost of Water
E. Donald Elliott, General Counsel
Environmental Protection Agency

9:00 Managing Our Water Resources
Maj. Gen. Patrick J. Kelly
Director of Civil Works
U.S. Army Corps of Engineers

9:20 Joe D. Hall, Deputy Commissioner
Bureau of Reclamation

9:40 Coffee Break

9:55 Panel—Increased Costs . . .
Where's the Money to Come From?

Moderator:
James R. Barnett, Executive Director
Oklahoma Water Resources Board

Panelists:
Jack Brown, Chairman
Tulsa Metropolitan Utility Authority
Henry Lamb, Executive Vice-President
Land Improvement Contractors of America
Larry Wornom, Director
Lincoln County Conservation District
Ernie Fawcett, President
National Rural Water Association
Wm. Don Kiser, Attorney
Fagin, Brown, Bush, Tinney & Kiser

11:15 The Washington Perspective

Sen. Don Nickles
Rep. Glenn English
Rep. Mickey Edwards
Rep. James Inhofe
Rep. Mike Synar
Rep. Wes Watkins

Noon Luncheon Program

Introductions and Remarks—Mr. Kerr
Water Funding Prospects
in the 43rd Legislature
Sen. Darryl F. Roberts
Senate Majority Leader
Rep. Glen Johnson, Speaker-Designate
House of Representatives

Oklahoma Water Pioneer Awards
Governor Bellmon
Glenn Sullivan, Secretary
Department of Natural Resources

Address—The Governor-Elect
Adjournment—Mr. Kerr

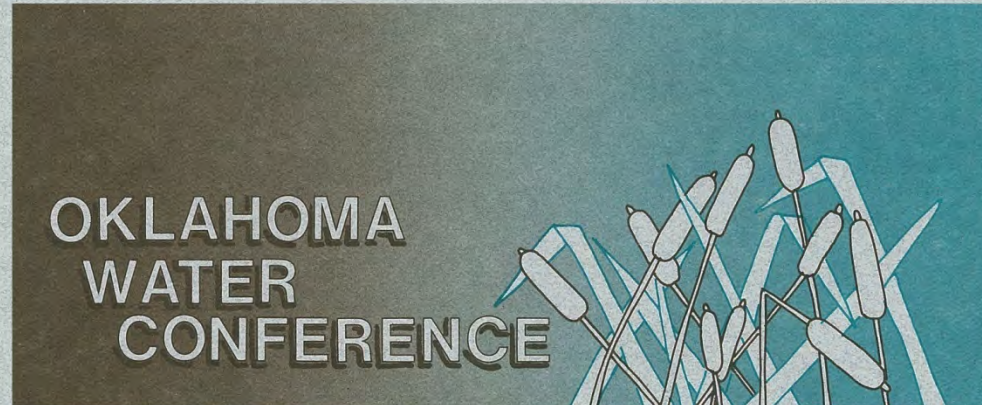
Agenda

- 8 a.m. Registration, Coffee**
- 8:30 Welcome**
Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board
- 8:45 Keynote**
Dennis Underwood
Commissioner (Designate)
Bureau of Reclamation
- 9:05 Federal Activities in the State and Region**
Dan Mauldin
Deputy Director of Civil Works
U.S. Army Corps of Engineers
- 9:25** Robert E. Layton, Jr.
Administrator, Region VI
Environmental Protection Agency
- 9:45** Gary Margheim
Associate Deputy Chief for Progra
USDA Soil Conservation Service
- 10:05** John R. George
Assistant Regional Hydrologist
U.S. Geological Survey
- 10:25 Coffee Break**
- 10:40 Update on the Governor's Environmental Concerns Cour**
Ross O. Swimmer
Council Coordinator
- 11 a.m. Are Wetlands Worth the Cost?**
Michael Spear, Panel Moderator
Regional Director, U.S. Fish
& Wildlife Service
- Panelists:
Ken McFall, President
Oklahoma Farm Bureau
Russell Rhoades, Director
Environmental Services
Region VI, U.S. EPA
Michael Luzier, Director
Environmental Regulations
National Assn. of Home Builders
Donald McCrory, Port Director
Memphis/Shelby County
Port Commission
Barry Rought, Chief of Planning
Southwest Division, U.S. Army
Corps of Engineers

The Tenth Annual Oklahoma Water Conference

December 13, 1989
Marriott Hotel
3233 Northwest Expressway
Oklahoma City

Oklahoma Water - From Dust Bowl to Wetlands



12 noon The Washington Perspective

*Congressional Delegation

Sen. David Boren	Rep. Dave McCurdy
Sen. Don Nickles	Rep. Mickey Edwards
Rep. Wes Watkins	Rep. James Inhofe
Rep. Glenn English	Rep. Mike Synar

*contingent upon Congressional recess date

12:30 Luncheon Program

Introductions and Remarks

Mr. Kerr

Prospects for Statewide Water Development Revolving Fund

Rep. Cal Hobson, Chairman
House Budget and Appropriations
Committee

Sen. Ben Brown, Chairman
Senate Natural Resources and
Regulatory Services Subcommittee
of the Appropriations and Budget
Committee

Gubernatorial Address

Governor Henry Bellmon

Presentation of Oklahoma Water Pioneer Awards

Glenn Sullivan, Secretary
Department of Natural Resources

Adjournment—Mr. Kerr

“Water Quality— Balancing the Interests”

December 14, 1988

9th Annual Oklahoma Water Conference

Marriott Hotel
3233 Northwest Expressway
Oklahoma City

Agenda

- | | | |
|--|---|---|
| <p>8 a.m. Registration, Coffee</p> <p>8:30 Welcome
Robert S. Kerr, Jr., Chairman
Oklahoma Water Resources Board</p> <p> Federal Agencies' Contributions
 to Water Quality</p> <p>8:45 Brig. Gen. Robert C. Lee
Commander, Southwestern Division
U.S. Army Corps of Engineers</p> <p>9:05 Billy Martin, Director
Great Plains Region
Bureau of Reclamation</p> <p>9:25 Joseph D. Winkle
Deputy Administrator, Region 6
Environmental Protection Agency</p> <p>9:45 Charles R. Burchett, District Chief
U.S. Geological Survey</p> <p>10:05 Coffee Break</p> | <p>10:25 Overview of Groundwater Quality
Marian Mlay, Director
Office of Groundwater Protection
Office of Water
EPA, Washington, D.C.</p> <p>10:45 Panel
Costs and Benefits of Clean Water
Terry Childers, City Manager
City of Oklahoma City
James P. Odendahl, Manager
Environmental and Regulatory Affairs
Weyerhaeuser Company
James W. Bennett, Executive Director
Oklahoma Wildlife Federation
Ed Long, Agribusinessman</p> <p>11:45 The Washington Perspective
Oklahoma Congressional Delegation
Representative Wes Watkins
Senator Don Nickles</p> <p> Invited:
Representative Mike Synar
Representative James Inhofe
Representative Dave McCurdy
Representative Mickey Edwards</p> | <p>12:15 Luncheon Program</p> <p>Remarks— Mr. Kerr
Glenn Sullivan, Secretary
Department of Natural Resources</p> <p>Address — Governor Henry Bellmon</p> <p>Legislative Accomplishments Prospects
for the 42nd Session</p> <p>Sen. Ray Giles, Chairman
Senate Natural Resources Committee</p> <p>Sen. Ben Brown, Chairman
Natural Resources & Regulatory Services
Subcommittee, Comm. on Appropriations</p> <p>Rep. Cal Hobson, Chairman
House Natural Resources Committee</p> <p>Rep. Glen D. Johnson, Chairman
Committee on Appropriations and Budget</p> <p>Presentation of Water Pioneer Awards</p> <p>Adjournment—Mr. Kerr</p> |
|--|---|---|

Agenda

8 a.m. **Registration, Coffee**

9:00 **Welcome**
Gerald E. Borelli, Chairman
Oklahoma Water Resources Board

Introductory Remarks
Glenn Sullivan, Secretary
Dept. of Natural Resources
Conference Chairman

9:20 **Clean Water Act Update**
Robert E. Layton Jr.
Administrator, Region VI, EPA

9:40 **A New Direction for the Bureau**
Joe D. Hall, Deputy Commissioner
Bureau of Reclamation

10:00 **Coffee Break**

10:20 **The New Water Resources Development Act**
Col. Frank M. Patete
District Engineer, Tulsa District,
U.S. Army Corps of Engineers

10:40 **Outlook for Navigation**
Harry N. Cook, President
National Waterways Conference

11:00 **Remarks**
Congressional Delegation

12 Noon **Luncheon Program**
Introductions—Mr. Sullivan
Address, Presentation of Water Pioneer Awards
Governor Henry Bellmon

2:00 **Tulsa's Stormwater Management Strategies**
Stan Williams, Director, Dept.
of Stormwater Management

2:30 **Water Magazine—a Panel Discussing Current Issues**
Moderator: Mr. Sullivan

Panelists:
Charles Huddleston, Attorney
Franco-American/Water Rights

Robert Johnson
Chief Staff Officer, NRWA
Is the Government Selling
Rural Water Short?

Marshall Hawkins
Financial Consultant
Water Development Financing

R. Thomas Lay, Attorney
Ute Reservoir Water Rights

Myron Knudson, Director, Water
Mgmt. Div., EPA Region VI
Matador Oil Co./Oklahoma Water
Quality Standards

3:40 **Adjournment—Mr. Sullivan**



Eighth Annual Governor's Water Conference

December 16, 1987

Speakers



Robert E. Layton, Jr.



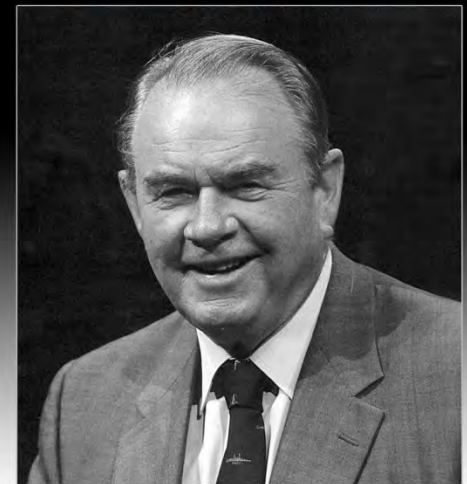
Joe D. Hall, P.E.



Harry N. Cook



Col. Frank M. Patete



Governor Henry Bellmon



Governor George Nigh

WATER: THE LIFEBLOOD OF ECONOMIC DEVELOPMENT

Seventh Annual

GOVERNOR'S WATER CONFERENCE

Lincoln Plaza, Oklahoma City
October 28, 1986

Early Bird Reception

October 27, 1986
6:30–7:30 p.m.
Senate Room, Lincoln Plaza

AGENDA

October 28, 1986

Gold Crown Room

8 a.m. Registration, Coffee

9:00 Welcome—Introductory Remarks
Gerald E. Borelli, Chairman
Oklahoma Water Resources Board

9:20 Federal Water Policy—What's
in it for Oklahoma? Robert K.

Dawson, Assistant Secretary of
the Army for Civil Works

9:40 What's in the Bureau's Future?
C. Dale Duvall, Commissioner,
Bureau of Reclamation

10:00 Break

10:20 Remarks—Congressional Delegation

The Honorable Don Nickles
The Honorable Dave McCurdy
The Honorable James R. Jones
The Honorable Mike Synar

11:20 Weak Infrastructure: Down the
Drain with Economic Recovery
Dr. Francis Tuttle, Oklahoma

Secretary of Commerce

11:40 How Much Quality Can We Afford?

John M. (Jack) Campbell,
Deputy Asst. Administrator
for Policy, Planning and Evaluation, EPA

12:15 Luncheon Program—Stars Room

Introductions, Special Award
Robert S. Kerr, Jr., OWRB

Remarks — Water Pioneer Awards
Governor Nigh

Water and a Firmer Financial Future

The Honorable Henry Bellmon
David L. Walters

2:30 Program Resumes in Gold
Crown Room
Edmond High School Show Choir
Act II, Terry Attebery, Director

2:50 Administration Water Policy—
Help or Hindrance? Joseph
Haas, Associate Chief, USDA
Soil Conservation Service

3:10 Cost-Sharing and User Fees—
Another View Joseph Farrell,
President, American Waterways
Operators, Inc.

3:30 Adjournment—Mr. Borelli

Conference Speakers



Robert K. Dawson



C. Dale Duvall



Joseph Farrell



Dr. Francis Tuttle



John M. (Jack)
Campbell

1986 Oklahoma Water Pioneers

Col. Francis J. Wilson

George W. Reid

James "Buster" Hight

L.T. Gov. Spencer Bernard

A. A. Sewell

James H. Irwin

Marvin T. Edmiston

Clarence Base

Orville B. Saunders

W.R. Holway

Early R. Cass

*Looking Back as
We Plan Ahead*

Sixth Annual
GOVERNOR'S
WATER CONFERENCE
Hilton Inn West, Oklahoma City

Early Bird Reception
December 3, 1985
6:30-7:30 p.m.
Gazebo, Hilton Inn West

A GENDA FOR
THE CONFERENCE

December 4, 1985

8 a.m.
Registration, Coffee

9:00
Welcome — Gerald E. Borelli,
Chairman, Oklahoma Water
Resources Board

9:10
Edmond High School Show Choir
Act II — Terry Attebery, Director

9:30
Keynote — The Honorable
George Nigh, Governor

10:00
Coffee Break

10:20
National Water Policy
Lt. Gen. John W. Morris (USA Ret)
President, J.W. Morris, Ltd.

10:50
Dam Safety — Who is Responsible?
Slide Show Prepared by the National
Association of Conservation Districts

11:20
Perspective from Capitol Hill
Remarks by Members of Oklahoma
Congressional Delegation

12:15
Luncheon Program
Presentation of Awards, Remarks
Gov. Nigh

The Nation's Water Quality
Lawrence J. Jensen, Assistant
Administrator Designate
Office of Water, U.S. EPA

2:00
Is Cost-Sharing Leaving America's
Infrastructure High and Dry?
Debate by Brian Robison,
Chris Man
Heritage Hall Upper School
Glenda Ferguson, Coach

3:00
Ground Water Management
A. Wayne Wyatt, Manager,
High Plains Water
Conservation District No. 1

3:30
Break

3:45
Oklahoma's Reach to the Clouds
Weather Modification Slide Show
Prepared by the Oklahoma Water
Resources Board

4:05
Is Chloride Control in
Oklahoma's Future?
Glenn Sullivan, P.E.
The Benham Group

4:30
Closing Remarks, Adjournment

4:30-5:30
Cracker Barrel Session — Your
opportunity to meet speakers,
have your questions answered and
visit around the cracker barrel.

Sixth Annual
GOVERNOR'S
WATER
CONFERENCE

DECEMBER 4, 1985

CONFERENCE
SPEAKERS



Lawrence J. Jensen



Governor George Nigh



John W. (Jack) Morris



A. Wayne Wyatt

1985 Oklahoma Water Pioneers

V. Ray Trent
Leonard A. Solomon
Marvin Scherler
P. Ward Perryman
Forrest Nelson
L.L. (Red) Males
Glade R. Kirkpatrick
Sen. Robert S. Kerr
Nolen J. Fuqua
Ferdie J. Deering
Bemice N. Crockett
Francis J. Borelli

David R. Strickland
Harold B. Scoggins
Frank Raab
Harold Norris
Donald O. McBride
Richard C. Longmire
Robert S. Kerr Jr.
Newton R. Graham
L.B. (Ed) Edinger
Jacques Cunningham
Dr. Lloyd E. Church

Fifth Annual GOVERNOR'S WATER CONFERENCE

Fifth Annual GOVERNOR'S WATER CONFERENCE

Paying for Water— It's Up to Us

Hilton Inn West, Oklahoma City

EARLY BIRD RECEPTION
December 11, 6:30-7:30 p.m.

AGENDA—December 12, 1984

- 8 a.m. Registration, Coffee
- 9:00 Welcome—Gerald E. Borelli
Chairman, Oklahoma Water Resources Board
- 9:15 Keynote—Joan M. Kovalic,
*Executive Director, Gen. Counsel,
Interstate Conference on Water Problems*
- Keynote—James R. Nelson, PhD
Prof., Agricultural Economics, OSU
- 10:00 Remarks—The Honorable
Don Nickles
The Honorable Wes Watkins
Other Congressmen Invited
- 10:30 Coffee, Visit Exhibits
- 11:00 Interstate Water Issues
Michael C. Turpen, *Attorney General*
R. Thomas Lay, *Gen. Counsel, OWRB*

12:15 p.m. Luncheon Program, Introductions
The Honorable George Nigh,
Governor
The Honorable Robert A. Olson,
*Acting Commissioner, Bureau of
Reclamation*

1:55 PLANNING AND PAYING FOR
WATER
Moderated by JoAnn Puckett,
*President Oklahoma League of Women
Voters*

Using Hydraulic Analyses in
Planning or Expanding Water
Systems
Cecil Wildman, P.E.,
Settle and Spear Engineers, Inc.

Oklahoma's Loan and Grant
Assistance to Water, Sewer
Improvements
James R. Barnett,
*Executive Director, Oklahoma Water
Resources Board*

Realism in Rate-Setting
Claudia Peck, PhD, *Asst. Prof. Home
Economics, OSU*

Rate Structures for Rural Water
Marie Dunn, CPA, *Oklahoma Rural
Water Association Board*

2:55 Break

3:10 WATER TO GROW ON—WATER FOR
COMMERCE AND INDUSTRY
Moderated by Charles L. Tyree
Chief, Environmental Affairs, ONG

Who Pays, Who Benefits from
Conservation?
Francis M. Epplin, PhD, *Asst. Prof.
Agricultural Economics, OSU*

Conservation Practices as Means of
Improving Water Quality
John Hassell, *Director of Water
Quality Programs, Oklahoma
Conservation Commission*

Oklahoma's Waterway—the Giant is
Awakening
Robert W. Portiss, *Port Director
Port of Catosa*

How Much Regulation for
Industry's Water?

4:15-5:30 Cracker Barrel Session—Informal
Question and Answer Period
"Around the Cracker Barrel."

SPEAKERS



R. Thomas Lay

R. Thomas Lay assumed his role as General Counsel of the Oklahoma Water Resources Board in 1976. He received his BS degree from Oklahoma State University in 1970 and his JD degree from Oklahoma City University School of Law in 1973. Subsequently, Lay served as Assistant Municipal Counselor for the City of Oklahoma City and later was engaged in the private practice of law. He has served as Assistant Attorney General and is a member of the Oklahoma State, Oklahoma County and American Bar Associations. Lay's present duties involve him in all major aspects of Oklahoma water law.



Joan M. Kovalic

In addition to leadership of ICWP, Kovalic is an associate of the Washington, D.C. law firm of Talt, Stettinius and Hollister, serving as counsel on environmental, water quality and water resources matters. Kovalic earlier had served as deputy director of EPA's Office of Water Program Operations, during which time she directed the multi-billion dollar grant program for the construction of municipal wastewater facilities and developed legislation including Clean Water Act amendments of 1981. Kovalic holds a B.A. in social relations and an M.S. in public administration from Carnegie-Mellon University; a J.D. degree from George Washington University Law School and attended seminars at Harvard University and the Brookings Institute. She is a member of the American Bar Association, Pennsylvania Bar Association, District of Columbia Bar Association, U.S. District Court and U.S. Court of Appeals for the District of Columbia.



Robert A. Olson

Prior to his appointment to Acting Commissioner, Robert A. Olson was Assistant Commissioner—Planning and Operations. He managed the Boulder City, Nevada, area of the Department of Energy's Western Area Power Administration and directed WAPA's power activities in the southwest, including the marketing of power from Hoover, Davis, Parker and Glen Canyon Dams on the Colorado River. He is an electrical engineer, a graduate of South Dakota State University and an associate of the Bureau of Reclamation since 1965.



Michael C. Turpen

Michael C. Turpen was elected Attorney General in 1982, having served previously as Muskogee County District Attorney, Muskogee County Chief Prosecutor and First Assistant District Attorney. He is a graduate of the University of Tulsa and the TU College of Law. In 1975 Turpen was named the Outstanding Young Lawyer of the Year by the Oklahoma Bar Association. He has served as adjunct professor at Northeastern State University, Connors State College and Oral Roberts University College of Law, and is the recipient of many awards including the 1981 Maurice Merrill Golden Quill Award for his contribution of the outstanding article of the year to the Oklahoma Bar Journal.



James R. Nelson

Nelson joined the faculty of Oklahoma State University in 1975 from a previous position on the faculty of the University of Idaho. He holds BS and MS degrees from Texas Technical University and a PhD degree from Oklahoma State University. Nelson has worked in rural development with emphasis on the development of land and water resources and the economics of rural community services. He has authored more than 100 papers on rural development and agricultural economics.

Announcing

The Governor's Fourth Annual Water Conference October 25, 1983

in Conjunction with

The 52nd Annual Convention and Water Resources Seminar of the National Water Resources Association October 24-27, 1983

Tulsa Assembly Center
Tulsa, Oklahoma



The Honorable George Nigh
Governor of Oklahoma

AGENDA

MONDAY, OCTOBER 24 • WATER MANAGEMENT SEMINAR

- 8:00 Registration - Gallery, Third Level
- 9:30 Welcome, George Proctor, President
Keynote Address, The Honorable Wes Watkins
- 10:00 "Planning - A Skill for Water Managers"
- 11:00 "Effective Meeting Techniques"
- Noon Recess
- 1:30 "Computers and Information Systems for Water Management"
- 3:00 Adjourn

TUESDAY, OCTOBER 25 • JOINT SESSIONS Oklahoma Governor's Water Conference / NWRA

- 9:00 Musical Interlude, The Marching Scots of McLain High School
- 9:30 Call to Order, George Proctor, NWRA President
Welcome, The Honorable James Inhoff, Mayor of Tulsa
- 10:00 Keynote Address, The Honorable Donald Hodel, Secretary of Energy
- 10:30 State of the Association Address, President George Proctor
- 11:00 "The Rio Grande - Ribbon of Life," Bureau of Reclamation
- 11:20 Address - The Honorable Don Nickles
- 12:30 Awards Luncheon
Luncheon Address, The Honorable George Nigh, Governor
- 2:30 Announcements, Gerald E. Borelli, Chairman
James R. Barnett, Executive Director
Oklahoma Water Resources Board
"Financing Water Projects, Oklahoma Style" Robert M. Cochran
Senior Vice President, Stifel Nicolaus & Company

- 3:10 Panel Discussion - "Outlook for State and Regional Water Development"
Brig. Gen. Robert J. Dacey, U.S. Army Corps of Engineers
Commander and Division Engineer, Southwest Division
Eugene Hinds, Director, Bureau of Reclamation Southwest Region
Roland R. Willis, State Conservationist, Soil Conservation Service
Alfred Clebsch, Jr., Regional Hydrologist, U.S. Geological Survey
- 4:30 Adjourn

WEDNESDAY, OCTOBER 26

- 9:00 Opening Remarks
Vern Fahy, Director, North Dakota
"The Continuing Struggle for Water Projects"
The Honorable Allen Olson, Governor of North Dakota
- 9:30 "Developing Ground Water Resources," Dr. Wayne Pettyjohn
Chairman, Department of Geology, OSU
- 10:00 "World Water Watch," Valsin Marmillion, Manager of Public
Information Programs, Atlantic Richfield Corporation, Los Angeles
- 10:45 "Financing Cost-Shared Projects," N.L. Hagan, Vice President
Municipal Utilities Department, Merrill Lynch, New York City
- 11:15 Presentation - Lt. Gen. Joseph K. Bratton, Chief of Engineers
U.S. Army Corps of Engineers
- 11:45 Presentation - The Honorable Robert Broadbent
Commissioner, Bureau of Reclamation
- 12:30 Recess
- 2:30 "Hydropower," Multi-Image Show by the Bureau of Reclamation
- 3:00 Washington Report, J.W. "Pat" O'Meara
NWRA Executive Vice President
- 3:30 Committee Chair Reports, Adoption of Resolutions, Business Meeting
- 5:00 Adjourn
- 7:00 All States Banquet, John Specht, Master of Ceremonies



Rep. Wes Watkins



Commissioner
Robert N. Broadbent



Sen. Don Nickles



Secretary Donald Hodel



Robert M. Cochran



Eugene Hinds



Brig. Gen. Robert J. Dacey



Lt. Gen. Joseph K. Bratton

Water: A Time For Action

The Governor's Second Annual Water Conference



December 1, 1981

Lincoln Plaza Inn
Oklahoma City, Oklahoma

Water: A Time For Action AGENDA

- 8 A.M. REGISTRATION, COFFEE**
- 9:00 WELCOME, OPENING REMARKS**
James H. Norick, Honorary Host
Robert J. LaFortune, Conference Chairman
- 9:20 KEYNOTE ADDRESS**
The Honorable George Nigh
- 9:45 CONCURRENT SESSIONS, DISCUSSION**
Water for Agriculture
Water for Commerce and Industry
Public Water Supply
- NOON LUNCHEON PROGRAM**
"National Water Policy — A New Partnership,"
The Honorable Garrey E. Carruthers, Assistant
Secretary of Interior for Land and Water
Resources
The Honorable Marvin York, President Pro
Tempore, Senate
The Honorable Dan Draper, Speaker,
House of Representatives
- 2 P.M. CONCURRENT SESSIONS, ACTION
RECOMMENDATIONS**
Water for Agriculture
Water for Commerce and Industry
Rural Water
Municipal Water
- 4:15 CO-CHAIRMEN REPORTS, RESPONSE**
Robert J. LaFortune
Gerald E. Borelli
Patty Eaton
Dr. Tom Hurst
- 4:45 CLOSING REMARKS, ADJOURN**
Gov. Nigh
James H. Norick

CONFERENCE SPEAKERS



Dr. Carruthers



Mr. Draper



Mr. York



Mr. LaFortune



Mr. Norick



Mr. Borelli



Mrs. Eaton



Dr. Hurst

*"The test of our progress is not whether we
add more to the abundance of those who
have too much; it is whether we provide
enough for those who have too little."*

—Franklin Delano Roosevelt

Governor George Nigh
invites you to share in seeking
creative alternatives in addressing
Oklahoma's water issues of importance
at the
Governor's Second Annual Water Conference
on Tuesday, December 1, 1981
beginning at 8 a.m.
at the Lincoln Plaza Inn
Oklahoma City, Oklahoma



THE GOVERNOR'S WATER CONFERENCE

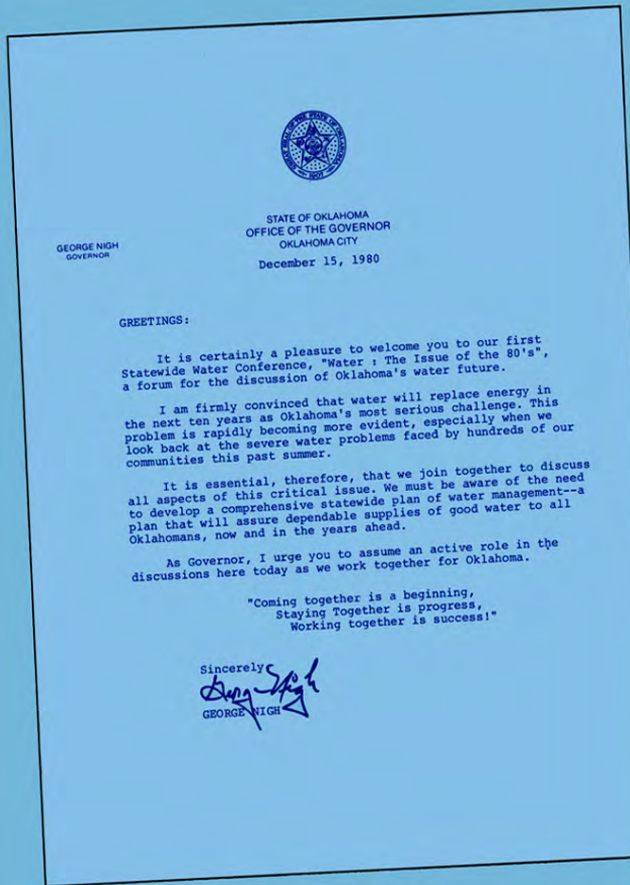
"WATER: The Issue of the 80s"

December 15, 1980

Skirvin Plaza Hotel Sheraton Century Center
One Park Avenue Broadway and Main
Oklahoma City, Oklahoma



George Nigh
Governor



AGENDA

SHERATON CENTURY CENTER

- 8:00 — 9:00 Registration
- 9:00 — 9:05 Opening Remarks
Gerald Borelli, Chairman
Oklahoma Water Resources Board
- 9:05 — 9:15 Welcome and Introduction
Robert S. Kerr, Jr., Conference Chairman
- 9:15 — 9:40 Keynote Address
The Honorable George Nigh, Governor
- 9:40 — 10:10 Water Resources Development Financing
— A Discussion of Alternatives
Dr. Herbert Grubb,
Director of Planning
Texas Department of Water Resources
- 10:10 — 10:30 Arkansas Red River Basin Chloride Control
W.M. (Bill) Gamel, Chief of Engineering
Tulsa District Corps of Engineers
- 10:30 — 10:50 Oklahoma Water, Present and Future
Joe Hail, Conservation Officer
Western Area Power Administration
Golden, Colorado
- 10:50 — 11:20 Oklahoma Comprehensive Water Plan
James R. Barnett, Executive Director
Oklahoma Water Resources Board
- 11:20 — 11:30 Wrap Up
Robert S. Kerr, Jr.

SKIRVIN PLAZA HOTEL

- 11:45 — 1:30 Luncheon
Jim Gillie, Assistant to the Vice President
Public Affairs
Phillips Petroleum Company
Congressional Delegates in Attendance
- 1:30 — 3:15 Afternoon Sessions
- 3:15 — 4:20 General Assembly
Summarization of Afternoon Sessions
by Moderators
- 4:20 — 4:30 Closing Remarks
Governor Nigh
- 4:30 Adjourn