

Governor's Conference on the Future of Water in Kansas

November 13-14, 2018

Hilton Garden Inn & Conference Center, Manhattan, KS

Monday, November 12, 2018

1:00 – 4:00 p.m. – Set up

6:30 - 7:30 p.m. - Early registration & appetizers in lobby

Tuesday, November 13, 2018

7:30 a.m. - Registration/Tour Exhibits (Foyer)

8:30 a.m. - Opening Session/Welcome

Tracy Streeter, Kansas Water Office Director

8:40 a.m. - Presentation of Colors

8:45 a.m. – Progress on the Vision for the Future of Water in Kansas

Earl Lewis, Kansas Water Office

9:15 a.m. – Lt. Governor Tracey Mann

9:40 a.m. – Water Legacy Award Presentation

10:00 a.m. - Break/Tour Exhibits

10:15 a.m. – Market Forces That Influence Conservation and Management Practices

Tim Hardman (Director of Sustainable Food for World Wildlife Fund)

11:00 a.m. – Development & Construction of First Major Reservoir in 30 Years

Tom Kula (Executive Director of North Texas Municipal Water District)

11:45 a.m. – Vendor networking and lunch set up

12:20 p.m. Lunch

Be the Vision Presentation- Secretary Jackie McClaskey, Kansas Department of Agriculture

1:15 p.m. – Release for dessert bar in lobby and vendor networking

1:45 p.m. – Afternoon Breakout Session One:

Conservation & Sustainability Panel (Kaw Nation) – Susan Metzger, College of Agriculture, K-State Research and Extension, Moderator

Tom Jones (Hy-Plains Feedyard, LLC); Matt Durler (Vice President of Marketing and Risk Management, ICM); Mariah Murphy (Account Manager, Land O' Lakes)

Why Does Navigation Matter to Kansas? (Big Basin) – Earl Lewis, Kansas Water Office, Moderator

Richard Grenville (Vice President of Multimodal Logistics, Port of Kansas City); Amy Larson (President, National WaterWays Conference); David Yarbrough (Port Director, Tulsa Port of Catoosa)

3:00 p.m. - Break/Tour Exhibits

3:15 – 4:45 p.m. – Afternoon Breakout Session Two:

Water Technology Farms & Aquifer Impacts (Kaw Nation) – Armando Zarco, Kansas Water Office, Moderator

Jonathan Aguilar (Assistant Professor, K-State Southwest Research and Extension Center); Nick Hatcher (Hatcher Land and Cattle); Ryan Speer (Jacob Farm); Weston McCary (Director of Precision Agriculture & UAS, Northwest Kansas Technical College)

Infrastructure for the Future Panel (Big Basin) – Jaime Gaggero, Kansas Department of Health and Environment – Bureau of Water, Moderator
Kevin McDonald (WIFIA Credit Program, U.S. Environmental Protection Agency); Mark Lambert (Associate Director, Environment, Quantified Ventures); Ben Nelson (Senior Utilities Optimization Manager, City of Wichita)

5:30 p.m. - Evening Social at Flint Hills Discovery Center - (5:30 pm - 7 pm)

Wednesday, November 14, 2018

7:15 a.m. - Registration/Poster Set Up

7:30 a.m. – Hot Topics in Kansas Water – David Barfield, Chief Engineer, Kansas Department of Agriculture - Division of Water Resources (Kaw Nation)

8:00 a.m. – 9:15 a.m.: Concurrent Session I

A. Ogallala CAP Grant (Kaw Nation)

Moderator: Amy Kremen, Ogallala Water CAP (NIFA-USDA), Colorado State University

- Ogallala Field Research Results – Sumit Sharma (OSU)
- Irrigation Efficiencies and Impact on Actual Water Use - Brent Auvermann (TX A&M)
- Ogallala-wide social survey of producers on water use - Bill Golden (KSU)
- Hydrologic modeling of the Ogallala aquifer - Erin Haacker (UNL)

B. Alternative Reservoir Operations (Big Basin)

Moderator: Cara Hendricks, Kansas Water Office

- Forecast Informed Reservoir Operations (FIRO): Background and Supporting Forecast Improvements through Atmospheric Data Collection and Numerical Modeling - Dr. Anna Wilson (Center for Western Weather and Water Extremes)
- FIRO Project Data Collection and Distributed Hydrologic Watershed Modeling in the Russian River Test Watershed of Northern California - Stephen Turnbull (Engineers Research & Development Center, U.S. Army Corps of Engineers)
- FIRO: Risk Based Decision Support System for Flood Operations of Lake Mendocino - Chris Delaney (Sonoma Water)

C. Water Quality and Beneficial Use of Lower Quality Sources of Water (Flint Hills, Kings & Konza)

Moderator: Brian Meier, Equus-Walnut RAC, Burns & McDonnell

- Water-Quality in the Little Arkansas River and Equus Beds Aquifer, South-Central Kansas, 2001–16 - Mandy Stone (USGS)
- Saltwater Contamination of the Equus Beds Aquifer in Groundwater Management District No. 2 (GMD2) - Don Whittemore (KU/KGS)
- Planning and Response to Saltwater Contamination of the Equus Beds Aquifer - Tim Boese (GMD2)

D. Reservoir Sediment Management (Big Blue/Ft. Riley)

Moderator: Greg Wilson, Kansas River Water Assurance District, Kansas RAC

- John Redmond Reservoir – Dewatering Efforts and Closure Plan for Confined Disposal Facility (CDF) Area “F” – Stan Ekren (Great Lakes Dredge and Dock)
- Water Injection Dredging – Paul Schroeder, John Shelley (USACE-NWK)

- Comparing Kansas reservoirs and natural lakes elsewhere: more to consider for managing surface water storage - Jerry DeNoyelles (KU/KBS)

E. Soil Health (McDowell)

Moderator: Matt Unruh, Kansas Water Office

- Microbial Communities Role in Improved Soil Health and Crop Yield - Caitlin Rotter (USDA-ARS)
- Promoting Soil Health Across a Watershed: Education and Incentives - Lisa French (Cheney Lake Watershed)
- Kris Ethridge (USDA-NRCS)

9:30 a.m. – 10:45 a.m.: Concurrent Session II

A. Streambank Stabilization and Wetlands (Flint Hills, Kings, Konza)

Moderator: Angela Anderson, Neosho RAC Chair, Twin Lakes WRAPS Coordinator

- Streambank Stabilization Monitoring Case Studies in Northeast Kansas - Charles Barden (KSU)
- Streambank Stabilization Effectiveness in the Cottonwood/Neosho River Basin - Tony Layzell (KU/KGS)
- Constructed Wetland Impacts on Runoff Quality from Terraced Fields in NE Kansas - Edward Peltier (KU)

B. Education and Outreach (Big Basin)

Moderator: Bobbi Luttjohann, Kansas Water Office

- Kansas Youth Water Advocates – Gaea Hock (KSU) and Students
- Community Education and Outreach in the City of Hays – Holly Dickman (City of Hays)
- Kansas Association of Conservation and Environmental Education (KACEE) – Laura Downey (KACEE)

C. Groundwater Characterization (McDowell)

Moderator: Richard Rockel, Kansas Water Office

- Status of the High Plains Aquifer in Kansas - Jim Butler (KGS)
- Innovative Techniques for Aquifer Characterization and Groundwater Modeling to Evaluate the Impacts of a Large Well Field in Lincoln County, Nebraska - James Schneider (Olsson Associates)
- A climate-based method to estimate water use and evaluate water savings - Chris Beightel (KDA)

D. Harmful Algae Blooms (Kaw Nation)

Moderator: Tom Stiles, Kansas Department of Health and Environment – Bureau of Water

- Large-scale harmful algae bloom experiments at the University of Kansas Field Station - Ted Harris (KBS)
- KDHE Harmful Algae Bloom Response Program and Current Initiatives - Trevor Flynn (KDHE)
- In-lake Remediation Efforts to Reduce Harmful Algae Bloom Impacts to Two Kansas City District USACE Projects - Marvin Boyer (USACE- NWK)

E. Extreme Events – Flood and Drought Monitoring and Response (Big Blue/Ft. Riley)

Moderator: Matt Miller, Chief Meteorologist, KSNT

- Floods in the West and Drought in the East: Surface Water Conditions in Kansas, Water Year 2018 - Bradley Lukasz (USGS)
- Tracking the Wildcat: A Look at the 2018 Labor Day Flood - Jude Kastens (KU/KBS)
- Wildcat Creek Flash Flood: Could we improve flood estimates for Wildcat Creek in Manhattan, KS? - Rouzbeh Berton (KSU)

11:00 a.m. – 11:35 a.m.: Mini-Concurrent Session III

A. Social and Cultural Influences on Water Conservation (Flint Hills, Kings, Konza)

Moderator: Susan Metzger, College of Agriculture, K-State Research and Extension

- A Survey of Attitudes toward Groundwater in the Ogallala Aquifer Region - Matthew Sanderson (KSU), Stephen Lauer (KSU), and Bill Golden (KSU)
- Milford Reservoir Issues Forum - Donna Schneck-Hamlin (KSU)

B. Alternative Crops and Management (Kaw Nation)

Moderator: Sarah Sexton-Bowser, Center for Sorghum Excellence, KSU

- Alternative Feed and Forage Selection for Improved Water Management - Barry Bradford (KSU)
- Alternative Crop Selection and Systems for Water Optimization - Lucas Haag (KSU)

C. Improving Water Quality (McDowell)

Moderator: Brad Bradley, Kansas RAC Chair

- Pollution Prevention Institute - Nancy Larson (KSU)
- Finding the Farmland Nitrogen: How does changing the chemistry and microbiome impact the river's ability to remove nitrogen? - Amy Burgin (KU)

D. Drought Monitoring and Flood Response (Big Blue/Ft. Riley)

Moderator: Andy Ziegler, U.S. Geological Survey

- Drought Monitoring with Mesonet Soil Moisture - Christopher Redmond (KSU)
- USGS Flood Response Role - Madison May (USGS)

11:45 a.m. – 12:15 p.m.: Mini-Concurrent Session IV

A. Emerging Technologies in Water Supply (Flint Hills, Kings, Konza)

Moderator: Tracy Streeter, Kansas Water Office

- Rabbi Dr. Baruch HaLevi (welaunch)

B. Emerging Technologies to Reduce Water Loss (McDowell)

Moderator: Katie Miller, Kansas Municipal Utilities, Kansas RAC

- A Utility's Perspective: Asset Management and Water Loss Control – Daniel Smith and Michelle Wirth (WaterOne)

C. State Water Planning for Nonpoint Source Management and Beyond (Flint Hills Discovery Center)

Moderator: Matt Unruh, Kansas Water Office

- Kansas Nonpoint Source Management Plan Update – Amanda Reed (KDHE)
- Developing a Sustainable Plan for Missouri's Water Resources – Matthew Scott (CDM Smith)

D. Water Outreach Campaign ~ (Big Blue/Ft. Riley)

Moderator: Katie Ingels, Kansas Water Office

- Kansas Runs on Water ~ A Statewide Campaign to Increase Awareness of the Value of Kansas Water Resources – Walz Tetrick

12:30 p.m. - Lunch

1:15 p.m. - Student Poster Awards

1:40 p.m. – Fear and Loathing in Kansas Water Law –Burke Griggs (Associate Professor of Law, Washburn University)

2:20 p.m. - Closing Words - Tracy Streeter, Kansas Water Office