**Wednesday, November 6, 2019**

3:30 – 6:00 p.m. – Vendor Set Up

6:00 - 7:30 p.m. – Early Registration & Pizza and Beer Conference Kickoff (Trail Rooms)

**Thursday, November 7, 2019**

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

8:30 a.m. – Opening Session/Welcome (Redbud ABC)

*Earl Lewis, Acting Director, Kansas Water Office*

*Connie Owen, Chair, Kansas Water Authority*

8:40 a.m. – Presentation of Colors

8:45 a.m. – Welcome – City of Wichita

9:00 a.m. – Progress on the Vision for the Future of Water in Kansas

*Cara Hendricks, Kansas Water Office*

9:30 a.m. – Lt. Governor

9:50 a.m. – Water Legacy Award Presentation

10:00 a.m. – Break/Tour Exhibits

10:15 a.m. – Jill Wheeler, Head, Sustainable Productivity, Syngenta North America

11:00 a.m. – Dr. Rollin Hotchkiss, Professor, Brigham Young University

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

12:00 p.m. Lunch (Eagle Ballroom)

*12:20 Be the Vision Presentation*

*12:50 - Matthew Lohr – Chief, NRCS*

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

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

***Sustainability across the Supply Chain Panel (Cypress AB)*** *– Susan Metzger, College of Agriculture, K-State Research and Extension, Moderator*

Kim Dirks, Senior Director for Environment, Tyson Foods; Debbie Lyons-Blythe, Rancher & board member with the U.S. Roundtable for Sustainable Beef; John Harsch, President & COO EcoPractices; Hugh Aljoe, Director of Producer Relations, Noble Research Institute

***Flooding Response Panel (Redbud AB)*** – *Earl Lewis, Kansas Water Office, Moderator*

Colonel Scott Preston, USACE Tulsa Colonel; Kevin Low, NWS - Missouri Basin River Forecast Center; Jud Kneuvean, Chief, Readiness and Contingency Operations Office USACE, Kansas City District

*3:00 p.m.* – *Break/Tour Exhibits*

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

***Groundwater Issues: The Arbuckle Formation (Cypress AB)*** *– Rex Buchanan, Director Emeritus, Kansas Geological Survey, Moderator*

Rick Miller and Dave Newell, Kansas Geological Survey; Brian Clennan, Director of Public Works, City of Hutchinson; Dana Wreath, Vice President, Berexco LLC

***Reservoir Sediment Management (Redbud AB)***– *John Shelley, U.S. Army Corps of Engineers - Kansas City District, Moderator*

Rollin Hotchkiss, Brigham Young University; Stan Ekren, Great Lakes Dock and Dredge Company, LLC; Joe Wagner, Wood Engineer; John Shelley, U.S. Army Corps of Engineers - Kansas City District

5:30 p.m. – Evening Social (Riverview Ballroom, 5:30 pm - 7 pm)

**Friday, November 8, 2019**

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

**7:15 a.m. - Breakfast with Barfield (*Eagle Ballroom)***

*David Barfield, Chief Engineer, Kansas Department of Agriculture – Division of Water Resources*

**8:00am – 9:15am (Concurrent Sessions)**

1. **Playa Lakes *(Walnut)***

*Moderator: Heidi Mehl, The Nature Conservancy*

* Kansas Playas – A Past & Future Resource – Jude Kastens, University of Kansas
* Playas as Sources of Recharge to the High Plains Aquifer in Western Kansas – Randy Stotler, University of Kansas
* Restoring Playas - What's It Look Like and Who Can Help? – Matt Hough, Ducks Unlimited and Matt Smith, Playa Lakes Joint Venture
* Playas Recharging Kansas Communities – Mike Carter, Playa Lakes Joint Venture
1. **Groundwater Characterization, Management and Conservation *(Redbud B)***

*Moderator: Amy Kremen, Colorado State University*

* Addition of Quantitatively Interpreted Drillers’ Log Tables to the Kansas Geological Survey's WWC5 Database – Geoffrey Bohling, University of Kansas
* Transitioning to Non-Irrigated Crop Production in Southwest Kansas – Will We Have Another Dust Bowl? – Bill Golden, Kansas State University
* Conserving Ogallala Communities through Voluntary, Group Efforts to Manage Groundwater – Stephen Lauer – Kansas State University
* Potential for Mobile Drip Irrigation Technology to Reduce Water Use on Low Capacity Wells – Trevor Ahring, Southwest Groundwater Management District No. 3
1. **Alternative Crops *(Redbud A)***

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

* Industrial Hemp at K-State: Trying to Fill the Research Void – Jason Griffin, Kansas State University
* DropXL Sorghum, a simulation study to design crop trait technology for water productivity in Kansas environments – Rubi Raymundo and Sarah Sexton Bowser, Kansas State University
* Cotton Production in Kansas - Stu Duncan, Kansas State University
1. **Water and Human Health *(Oak)***

*Moderator: Brian Meier, Burns & McDonnell*

* Evaluation of Streambed-Sediment Metals Concentrations in the Spring River Basin, Cherokee County Superfund Site, Southeast Kansas, 2017 – Brian Klager, U.S. Geological Survey
* The Kansas Climate + Health Declaration – Rachel Myslivy and Dorothy Barnett, Climate + Energy Project
* Impacted Groundwater as a Source of Drinking Water: Design, Permitting and Regulatory Considerations for Potable End Use Groundwater Remediation Systems – Maria Vishnevskiy, Geosyntec Consultants
* Long-Term Water-Quality Data Collection Associated with Wichita’s Primary Drinking Water Sources: Cheney Reservoir and the Equus Beds Aquifer, South-Central Kansas, 1966–2019 – Mandy Stone, U.S. Geological Survey
1. **Bioengineered Solutions to Address Water Quality *(Cypress B)***

*Moderator: Chris Janssen, Kansas Department of Health and Environment*

* Are streambank stabilization systems really reducing sediment supply and reservoir sedimentation? – Kari Bigham, Kansas State University
* The use of Unmanned Aircraft Systems to assess streambank erosion and related engineering solution - Tony Layzell, Kansas Geological Survey
* Modeling Nutrient Removal in Constructed Wetlands Collecting Terraced Field Runoff – Edward Peltier, University of Kansas
* Effects of Bank Stabilization on Regional Sediment Management (RSM) – Aaron Williams, U.S. Army Corps of Engineers, Kansas City District

**9:30am – 10:45am (Concurrent Sessions)**

1. **Municipal and Industrial Water Supply *(Cypress B)***

*Moderator: Mike Armstrong, Johnson County WaterOne*

* Proactive Asset Management Training- Getting Ahead of the Issues – Brian Bohnsack, Wichita State University
* Reducing your water system vulnerability....It’s not just a good idea, it’s the Law! – Sarah Tuite, Burns & McDonnell
* Smart Stormwater Solutions – Andy Sauer and Brenda Macke, Burns & McDonnell
1. **2019 Flooding in Kansas *(Redbud B)***

*Moderator: Nathan Westrup, Kansas Water Office*

* Improving Situational Awareness with Real-time Flood Mapping in Kansas: Live Action from Spring 2019 - Jude Kastens, University of Kansas
* 2019 Flooding and the Impact on Water and Wastewater Facilities – A Boots on the Ground Perspective – Jason Solomon and Daryn Martin, Kansas Rural Water Association
* Summary of the 2019 Spring and Summer Kansas Flooding – Bradley Lukasz, U.S. Geological Survey
* Water in Kansas State Parks – Linda Lanterman, Kansas Department of Wildlife, Parks, and Tourism
1. **Groundwater Management District Updates *(Cypress A)***

*Moderator: Chris Beightel, Kansas Department of Agriculture*

* Equus Beds GMD 2 - Tim Boese, Manager
* Southwest Kansas GMD 3 Management Program Update
* Northwest Kansas GMD 4 - Shannon Kenyon, District Manager
* Big Bend GMD 5 - Orrin Feril, Manager
1. **Harmful Algal Blooms *(Redbud A)***

*Moderator: Megan Maksimowicz, Kansas Department of Health and Environment*

* Harmful Blue-Green Algae Blooms in Kansas - Ted Harris, Kansas Biological Survey
* Harmful Algal Bloom Student Research Project in Cheney Reservoir - Maize High School
* 2019 Harmful Algal Bloom Season Overview - Pattie Haines-Lieber, Kansas Department of Health and Environment
1. **Water Technology Farms Panel *(Birch)***

*Moderator: Armando Zarco, Kansas Water Office*

* Ryan Goering, R&E Goering Farm
* Steve Schemm, Homeland Farm
* Weston McCary, Northwest Kansas Technical College

**11:00am – 11:35am Mini Concurrent Sessions**

1. **WCA Efforts in Finney County *(Redbud A)***

 *Moderator: Mike Meyer, Kansas Department of Agriculture - Division of Water Resources*

* Dwayne Roth, Roth Family Farms
* **Groundwater Quality** **(*(Cypress A*)**

*Moderator: Logan Smith, Kansas Department of Health and Environment*

* Fred Jones, Garden City Water Systems Manager
* Darrin Unruh, Pretty Prairie City Council
1. **Invasive Species *(Oak)***

*Moderator: Bobbi Luttjohann, Kansas Water Office*

* Status and Impacts of Aquatic Nuisance Species in Kansas - Chris Steffen, Kansas Department of Wildlife, Parks and Tourism
1. **Deep-Injection Well Management *(Redbud B)***

*Moderator: Blair Schneider, Kansas Geological Survey*

* Deep-Injection Diversion Options - Isaac Wright and Lynelle Ladd, Kansas State University
1. **Water Quality Assessment and Implementation *(Walnut)***

*Moderator: Andy Klein, Kansas Forest Service*

* 2010-2019 Accomplishments of K-State’s Watershed Management Programs - Dan Devlin and Amanda Schielke, Kansas State University

**11:45am – 12:15 pm Mini Concurrent Sessions**

1. **Education and Outreach (Walnut)**

 *Moderator: Dr. Gaea Hock, Kansas State University Agricultural Education and Grace Roth, Student*

* Katie Burke, Kansas State University
* Shane Neel, Kansas Forest Service
1. **NRCS Rainfall Simulator (Mead Patio)**

*Moderator: Alex Geisler, Kansas Water Office*

* Dale Younker, Natural Resources Conservation Service
1. **Extreme Event Assessment & Planning** **(Oak)**

*Moderator: Ross Janssen, Chief Meteorologist, KWCH*

* Coordinated Drought Response in Missouri – Lessons Learned from the 2018 Drought – Jennifer Hoggatt and Meredith Colleen, Missouri Department of Natural Resources
* Evaluation of Rainfall‐Runoff Trends in Texas – with applications for Kansas water supplies? – Jordan Furnans, LRE Water
1. **Public Water Supply Reuse** **(Cypress A)**

*Moderator: Fred Jones, Garden City Water Systems Manager*

* The Changing Face of Water Supply - Jake White, Project Manager, Burns & McDonnell
1. **Wichita Regional Water Supply *(Redbud A)***

 *Moderator: Matt Unruh, Kansas Water Office*

* Alan King, Director of Public Works & Utilities, City of Wichita
1. **Cargill Nebraska Irrigation Project (Redbud B)**

*Moderator: Mike Beam, Kansas Department of Agriculture*

* Mike Kondrath, Cargill
1. **Flood Control Operations in the Kansas River Basin through Calendar Year 2019 (Birch)**

*Moderator: Nathan Westrup, Kansas Water Office*

* Christopher Purzer, P.E. and Brian Twombly, P.E., Kansas City District, US Army Corps of Engineers

12:30 pm - Lunch (Eagle Ballroom)

1:15 pm - Student Poster Awards

1:40 pm - Closing Speaker, *Patty Clark, Deputy Secretary, Kansas Department of Commerce*

2:20 pm - Closing Words, *Earl Lewis, Acting Director, Kansas Water Office*