

Water Resources of the US Great Plains Region: Status and Future

October 24-26, 2018

Nebraska Innovation Campus (NIC) Conference Center
2021 Transformation Dr., Lincoln, Nebraska USA

Agenda

Day 1 – 24th October 2018

<u>Time</u>	<u>Activity</u>
11:45 am	First shuttle departs from Courtyard Marriott to NIC (every 30 minutes thereafter; final shuttle at 1 p.m.)
12:00-1:30 pm	<i>Registration/check-in</i>
1:20-1:30	Announcements and Welcome – Rachael Herpel, Assistant Director, Nebraska Water Center
1:30-1:45	Introduction to the symposium, Mike Boehm, Vice Chancellor, Institute of Agriculture and Natural Resources, University of Nebraska-Lincoln
1:45-2:00	From Local to Global: An Overview of the University of Nebraska’s Daugherty Water for Food Global Institute, Peter McCornick, Executive Director
2:00-2:45	Keynote lecture: Overview of U. S. Geological Survey Water Mission Area, Bob Joseph, Director of USGS Planning and Programming with the Water Mission Area.
2:45-3:00	<i>Break</i>
3:00-3:45	Keynote lecture: USGS Perspectives on Nutrient Loading to the Gulf of Mexico, Lori Sprague, Hydrologist, USGS
3:45-5:15	Updates from NIWR WRI Institutes and Water Science Centers Lightning Talk Kick Off, Earl Greene, Program Coordinator, Water Resource Research Act Program, USGS
5:15-7:30	Reception and dinner at NIC
6:15	Presentation on Platte Basin Timelapse Project, Mariah Lundgren, Producer & Project Manager and Morgan Spiels, Digital Journalist

Day 1 – continued

7:45 First shuttle departs from Innovation Campus to Courtyard Marriott
8:15 Final shuttle departs from Innovation Campus to Courtyard Marriott

Day 2 - 25th October, 2018

Time

7:15 am First shuttle departs from Courtyard Marriott to NIC (second shuttle at 7:30; final shuttle at 8:00)

7:30-8:30 ***Registration and continental breakfast***

8:30-9:00 Keynote lecture: Water for Agriculture: Successfully Focused Projects Poised to Resolve Great Plains Water Woes, James Dobrowolski, NIFA, USDA

9:00-9:45 Keynote lecture: USGS Estimates of National Water Use: Past, Present, and Future, Rodney Caldwell, Hydrologist, USGS Wyoming-Montana Water Science Center

9:45-10:15 Sediment Transport in the Missouri River Reservoir System, Joyce Williamson, Dakotas USGS Water Science Center

10:15-10:45 ***Break***

10:45-12:15 pm Continuation of Missouri River Basin talks

- Water Quality Issues in Illinois, Iowa & Missouri, Jon Nania, IL-IA-MO USGS Water Science Center
- Harmful Algal Blooms, Rebecca North, University of Missouri
- Water Quality Impacts of Highly Intensive Agriculture, Karrie Weber, Associate Professor, UNL School of Biological Sciences
- Water Quantity and Quality Issues in Western North Dakota: Overview and Two Case Studies, Xuefeng Chu and Zhulu Lin, North Dakota State University

12:15-1:20 ***Lunch (with poster session and judging)***

1:30 Presentation of Poster Awards

1:45-3:15 Groundwater and Surface Water, Part One

- The High Plains Aquifer in Kansas: New Findings and Future Prospects, Jim Butler, Kansas Geological Survey, Lawrence, KS
- Ogallala Water Coordinated Agriculture Multi-University USDA Project, Ryan Bailey, Colorado State University
- Groundwater Availability of the Northern High Plains Aquifer, Steve Peterson, USGS Nebraska Water Science Center

Day 2 – Continued

- 3:15-3:45 ***Break***
- 3:45-5:15 pm Groundwater and Surface Water, Part Two
- Arkansas River Basin Groundwater Flow Models, Matt Varonka, Studies Chief, Oklahoma USGS Water Science Center
 - Water Recharge – Perspectives from Regional Studies of the USGS, Brian Clark, Hydrologist, USGS Lower Mississippi-Gulf Water Science Center
 - Iowa Daily Erosion Project, Rick Kruse, Director, Iowa Water Center
- 5:00** ***Shuttle service departures for speakers must be made with Tricia/NWC Desk which are needed on Friday***
- 5:30-6:30 Tours at NIC Greenhouse and Food Innovation Center--
(*Instructions: everyone sitting on right facing the podium, go to the door to your right and meet Caleb; everyone sitting on the left facing the podium, go to the door to your left and meet Ellen*). There are two groups running at a time at the Greenhouse and one group running at FIC. For those that have not seen FIC in the first 2 tours, there will be a third tour given at FIC).
- 6:30-7:00 ***NOTE: Additional tour at Food Innovation center if needed for attendees***
- 6:30-8:00 Buffet dinner and collaboration possibilities (Dan Devlin and Jim Dobrowolski – discussion and collaboration formulation) @ NIC
- 8:00 First shuttle departs from NIC to Courtyard Marriott
- 8:30 Final shuttle departs from NIC to Courtyard Marriott

Day 3 – 26th October, 2018

Time

- 7:15 am First shuttle departs from Courtyard Marriott to NIC (second shuttle at 7:30)
- 7:30-8:30 ***Registration and continental breakfast***
- 8:30-10:00 Socio-economic, legal, and behavioral considerations (Moderated by J. David Aiken, Professor, Agricultural Economics, UNL)
- Iowa Nitrogen Issues, Matt Helmers, Professor, Dept. of Agricultural and Biosystems Engineering, Iowa State University
 - Attitudes Toward Water Conservation in the High Plains/Ogallala Region, Matt Sanderson, Professor of Sociology, Kansas State University
 - Kansas Legal Talk by John Peck, Professor of Law, University of Kansas
- 10:00-10:30 ***Break***

Day 3 – continued

10:30-11:30

Way forward, issues discussion, collaborations (Dan Devlin, moderator)

- People can break into issue groups, discuss and report during lunch break. One-one-discussion with speakers and program officers

11:30-12:30 pm

Sack lunch, and wrap-up in Banquet Room