# 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**

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

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