

HOME SCHEDULE REGISTER HOTEL & TRAVEL SPEAKERS LINKS/MAPS SPONSORS MEDIA  
 GRADUATE STUDENT POSTER SESSION FACULTY AND UNIVERSITY PARTNER POSTER SESSION  
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## Schedule

All events are at The Cornhusker Hotel unless noted. Please check back often. The schedule will be updated regularly.

### *Sunday, May 5*

5:00 - 7:30 p.m.	<b>Conference Registration</b>	Atrium
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5:30 - 7:00 p.m.	<b>Informal Welcome Reception</b>	Atrium
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### *Monday, May 6*

7:00 a.m.	<b>Networking Breakfast</b>	Lancaster Room, Lower Level
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7:00 a.m.	<b>Conference Registration</b>	Atrium
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*Available throughout the day*

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8:00 a.m.	<b>Conference Welcome and Speaker Introductions</b>	Grand Ballroom
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[Roberto Lenton](#), Founding Executive Director, Robert B. Daugherty Water for Food Institute, University of Nebraska

8:15 a.m.	<p><b>Research in Action</b></p> <p>Moderator: <a href="#">Jeff Raikes</a>, CEO, Bill &amp; Melinda Gates Foundation</p> <p><a href="#">Aditi Mukherji</a>, Centre for Integrated Mountain Development, Nepal  <a href="#">Paul Hicks</a>, Catholic Relief Services, Latin America and the Caribbean Region  <a href="#">Ravinder Kaur</a>, Water Technology Centre, Indian Agricultural Research Institute  <a href="#">Karen Villholth</a>, International Water Management Institute, South Africa</p>	Grand Ballroom  ▶ <a href="#">Live webstream available</a>
9:15 a.m.	<p><b>The Thirst of a Starved World</b></p> <p><a href="#">Benedito Braga</a>, President, World Water Council</p>	Grand Ballroom  ▶ <a href="#">Live webstream available</a>
10:00 a.m.	<b>Break</b>	
10:30 a.m.	<p><b>Climate Change: Insights from Science; Imperatives for Action</b></p> <p><a href="#">Rosina Bierbaum</a>, Professor, School of Natural Resources and Environment, University of Michigan</p>	Grand Ballroom  ▶ <a href="#">Live webstream available</a>
11:15 a.m.	<p><b>Hotter and Drier Agriculture: Reaching for Solutions Outside the Genetic Box</b></p> <p><a href="#">Sally Mackenzie</a>, Ralph and Alice Raikes Chair, Plant Sciences, University of Nebraska-Lincoln</p>	Grand Ballroom
12:00 p.m.	<p><b>Luncheon</b></p> <p><b>Impacts of Climate Change on Food Production: Global and Regional Implications</b></p> <p><a href="#">Cynthia Rosenzweig</a>, Senior Research Scientist, NASA Goddard Institute for Space Studies</p>	Lancaster Room, Lower Level
1:30 - 4:30 p.m.	<p><b>Surviving the 2012 Drought: 80 Years of Innovation</b></p> <p>Moderator: <a href="#">Ronnie Green</a>, Harlan Vice Chancellor, Institute of Agriculture and Natural Resources, UNL; University of Nebraska Vice President</p> <p><a href="#">Jim Specht</a>, Agronomy &amp; Horticulture, UNL  <a href="#">Joe Keaschall</a>, Pioneer Hi-Bred International, Inc.  <a href="#">Marta Garcia</a>, Dow AgroSciences</p> <p><i>3:00-3:30 Break</i></p> <p><a href="#">Robert Klein</a>, Agronomy &amp; Horticulture, UNL  <a href="#">Jake LaRue</a>, Valley Irrigation  <a href="#">Nick Emanuel</a>, CropMetrics</p>	Grand Ballroom  ▶ <a href="#">Live webstream available</a>
4:45 p.m.	<p><b>Nebraska State Capitol Tour</b></p> <p>This tour features the extensive water- and agriculture-themed art in the Capitol.</p>	Cornhusker Hotel Lobby
6:00 p.m.	<p><b>Welcome Banquet</b></p> <p><i>6:00 p.m. social hour, 7:00 p.m. dinner</i></p>	Lancaster Room

**Welcome**

[James B. Milliken](#), President, University of Nebraska

Dinner speaker: [Joe Starita](#), author and Associate Professor of Journalism, University of Nebraska-Lincoln, speaks about his book *I am a Man: Chief Standing Bear's Journey for Justice*

**Tuesday, May 7**

7:00 a.m.    **Networking Breakfast**    Lancaster Room, Lower Level

7:00 a.m.    **Conference Registration**    Atrium

*Registration available throughout the day*

8:15 a.m.    **Opening Remarks and Speaker Introductions**    Grand Ballroom

[Harvey Perlman](#), Chancellor, University of Nebraska-Lincoln

8:30 a.m.    **Resilience Thinking and the Sustainability of Agricultural Systems**    Grand Ballroom

[Christo Fabricius](#), Leader, Sustainability Research Unit, Nelson Mandela Metropolitan University, South Africa  
Science Leader, Resilience Alliance

► [Live webstream available](#)

9:15 a.m.    **UNL Extension – Delivering Just-in-time Information to Prepare For, Deal With and Recover From Drought**    Grand Ballroom

[Chuck Hibberd](#), Dean and Director of Extension, University of Nebraska-Lincoln

10:00 a.m.    **Break**

10:30 a.m.    **A View from the Field – Agricultural Producers Panel**    Grand Ballroom

Moderator: [Mark Gustafson](#), Interim Director, Rural Futures Institute at the University of Nebraska

[Antonio Ferreira](#), Brazil  
[Mike Kelly](#), Sutherland, Nebraska  
[Ken Schilz](#), Ogallala, Nebraska  
[Duke Phillips](#), Colorado

12:00 p.m.    **Luncheon**    Lancaster Room, Lower Level

**Seeing Climate, Seeing Change**

[Heidi Cullen](#), Chief Climatologist, Climate Central

1:30 - 4:30 p.m.    **Concurrent Sessions**

*Break 2:45-3:15*

Grand Ballroom East  
**Communicating about Climate Roundtable**

Grand Ballroom West  
**Resilience in Working Agricultural Landscapes**

1:30-2:45 p.m.

Moderator: [Heidi Cullen](#), Climate Central

[Doyle Rice](#), Weather Editor, USA Today  
[Mark Svoboda](#), National Drought Mitigation Center, UNL  
[Gregg Garfin](#), University of Arizona

**Drought Preparedness Case Studies**

3:15-4:30 p.m.

Moderator: [Donald Wilhite](#), School of Natural Resources, UNL

[Mohamed Bazza](#), Food and Agriculture Organization of the United Nations  
[Ana Iglesias](#), Madrid Polytechnic University  
[Gary Eilerts](#), Program Manager, FEWS NET, USAID

Moderator: [Ann Bleed](#), School of Natural Resources, UNL; Former Director, Nebraska Department of Natural Resources (retired)

[Craig Allen](#), Nebraska Cooperative Fish & Wildlife Research Unit, UNL  
[Doug Beard](#), National Climate Change and Wildlife Science Center, U.S. Geological Survey  
[Marty Anderies](#), Arizona State University  
[Alex Awiti](#), Aga Khan University, Nairobi, Kenya  
[Line Gordon](#), Stockholm Resilience Center

▶ [Live webstream available](#)

4:30 - 6:00 p.m.

**Poster Session and Reception**

Atrium

Featuring Viewer's Choice Competition for Graduate Student Posters.

*Sponsored by DuPont Pioneer*

5:45 p.m.

**Nebraska State Capitol Tour**

Cornhusker Hotel Lobby

This tour features the extensive water- and agriculture-themed art in the Capitol.

## Wednesday, May 8

7:00 a.m.

**Networking Breakfast**

Lancaster Room

7:00 a.m.

**Conference Registration**

Atrium

*Available until noon*

8:30 a.m.

**Concurrent Sessions**

Grand Ballroom East

**Livestock and Water: Global Perspectives**Moderator: [Deb Hamernik](#), Associate Dean, Agriculture Research Division, IANR, UNL**Links Between Livestock and Water Resources**

[Mats Lannerstad](#), International Livestock Research Institute and Stockholm Environment Institute  
[Bradley Ridoutt](#), Commonwealth Scientific and Industrial Research Organisation, Australia  
[Jude Capper](#), Sustainability Consultant, Washington State University

*Break 10:00 - 10:30***Regional Views**[Katrien Descheemaeker](#), Wageningen University, the Netherlands

Grand Ballroom West

**Cool Tools & Technologies for Water and Agricultural Research***Sponsored by LI-COR Biosciences*Moderator: [Steve Goddard](#), Chair, Computer Science and Engineering, UNL**8:40 - 9:35 Phocalstream: Bringing the Power of Photography to the Cloud**

[Ian Cottingham](#), Jeffrey S. Raikes School, UNL  
[Michael Farrell](#), Nebraska Educational Telecommunications; IANR, UNL  
[Michael Forsberg](#), Photographer; IANR, UNL

**9:35 - 10:15 From Soil to the Cloud: Wireless Underground Sensors for Autonomous Irrigation**  
[M. Can Vuran](#), Computer Science and Engineering, UNL

[Jerry Volesky](#), Agronomy & Horticulture, UNL

▶ [Live webstream available](#)

Break 10:15 - 10:45

10:45 - 11:35 **Repurposing Drones as Aerial Instruments**

[Sebastian Elbaum](#), Computer Science and Engineering, UNL

[Carrick Detweiler](#), Computer Science and Engineering, UNL

11:35 - Noon **Panel Discussion**

12:00 - 1:00 p.m. **Recognition Luncheon**

Lancaster Room,  
Lower Level

[Roberto Lenton](#), Founding Executive Director, Daugherty Water for Food Institute

Recognition of winners of the Graduate Student Poster Competition

1:00 - 2:30 p.m. **Closing Panel**

Lancaster Room

Panelists address conference topics and issues that researchers, policymakers, producers and organizations must consider in increasing food security using less water.

Moderator: [Roberto Lenton](#), Founding Executive Director, Daugherty Water for Food Institute

[Mace Hack](#), State Director, The Nature Conservancy, Nebraska

[Dilip Kulkarni](#), Jain Irrigation Systems, Ltd., India

[Prem S. Paul](#), Vice Chancellor for Research and Economic Development, UNL

[Donald Wilhite](#), Professor, School of Natural Resources, UNL

[Sandra Zellmer](#), Robert B. Daugherty Professor of Law, University of Nebraska College of Law

3:00 - 5:00 p.m. **Water, Food and Health Caucus**

Arbor Room

Past Conferences

- **2012**
  - Proceedings
  - Video Presentations
  - Photos
- **2010**
  - Proceedings
  - Video Presentations
  - Photos
- **2011**
  - Proceedings
  - Video Presentations
  - Photos
- **2009**
  - Proceedings
  - Presentations
  - Photos

Sponsored by the Robert B. Daugherty Water for Food Institute at the University of Nebraska, a research, education and policy analysis institute committed to helping the world efficiently use its limited freshwater resources to ensure a sustainable food supply for current and future generations, with additional support from the Bill & Melinda Gates Foundation.



