

BIG 12 UNIVERSITIES WATER WORKSHOP

**NOVEMBER 17-18, 2014
LAWRENCE, KANSAS**

November 17, 5 – 6 p.m.

The Oread, 1200 Oread Ave.

**Panel: “Confronting the Continuing
Depletion of the High Plains Aquifer
in Western Kansas”**

November 18, 8 a.m. – 12:15 p.m.

Kansas Union, Woodruff Auditorium

**Keynote: George M. Hornberger,
Vanderbilt University Institute for
Energy and the Environment**

Presentations:

- **Energy-Water-Food Conundrum**
- **Appalachian Shale Gas Development**
- **Prospective Desalination Technology**
- **Reservoir Sedimentation**
- **Nutrient Agricultural Run-Off**
- **The Future of Highly Stressed Aquifers**

• See Reverse for Full Agenda

• Free and Open to the Public

BIG 12 UNIVERSITIES WATER WORKSHOP AGENDA

Monday, November 17 / The Oread, 1200 Oread Ave., Lawrence

5 – 6:15 p.m. Panel: “Confronting the Continuing Depletion of the High Plains Aquifer in Western Kansas,” Hancock Room

Moderator: Rex Buchanan, Interim Director, Kansas Geological Survey. Panelists: Jay Garetson, Southwest Kansas Irrigator; Stan Townsend, Northwest Kansas Irrigator; Mark Rude, Executive Director of Groundwater Management District 3, Garden City, Kansas

6:15 – 7:30 Reception, All Seasons Den

Tuesday, November 18 / Kansas Union, 1301 Jayhawk Blvd., Lawrence

7:15 – 8:00 a.m. Networking Reception with Continental Breakfast, Jayhawk Room

8:00 – 8:10 Welcome, Provost Jeff Vitter, University of Kansas, Woodruff Auditorium

8:10 – 8:15 George Cobb, Chair of the Environmental Science Department, Baylor University, on behalf of Baylor President and Chancellor Ken Starr

8:15 – 8:20 Overview of the Day, Jim Butler, Geohydrology Section Chief, Kansas Geological Survey, University of Kansas

8:20 – 9:20 Keynote Presentation, “Challenges and Opportunities in Water Resources Research and Education,” Professor George M. Hornberger, Distinguished University Professor at Vanderbilt University, NAE

9:20 – 9:45 “Can We Eat, Drink AND Turn on the Lights?,” Danny Reible, Donovan Maddox Engineering Chair, Civil & Environmental Engineering, Texas Tech University

9:45 – 10:10 “Shale Gas Development in the Appalachian Basin: Water Requirements, Management, and Quality Implications,” Paul Ziemkiewicz, Director of the West Virginia Water Research Institute, West Virginia University

10:10 – 10:30 Break, Jayhawk Room

10:30 – 10:55 “Desalination: Prospective Technology for Mitigating Water Scarcity,” Jadwiga (Jad) Ziolkowska, Assistant Professor, Department of Geography and Environmental Sustainability, University of Oklahoma

10:55 – 11:20 “Reservoir Sedimentation: A Focus on Upstream Sources,” Garey Fox, Interim Director, Oklahoma Water Resources Center, Professor and Orville L. and Helen L. Buchanan Chair of Biosystems and Agricultural Engineering, Oklahoma State University

11:20 – 11:45 “Nutrients in Agriculture and the Environment,” Nathan Nelson, Associate Professor, Soil Fertility and Nutrient Management, Kansas State University

11:45 – 12:10 p.m. “Assessing the Major Drivers of Water-Level Declines: New Insights into the Future of the High Plains Aquifer,” Jim Butler, Geohydrology Section Chief, Kansas Geological Survey, University of Kansas

12:10 – 12:15 Wrap Up