



***U.S. Water Resources on the Regional Scale  
Prediction, Change and Tools for Mitigation***

**LUNCHEON BRIEFING INVITATION**

**Friday, November 4, 2005**

**12:00 noon to 1:30 pm, Senate Russell Building, Room 385**

*“... there is no more important or essential substance to us than water. Fresh water supplies are coming under pressure all over the globe. Seriously confronting this problem before it leads to tremendous burdens on this nation and the world is an endeavor as worthwhile as any I can contemplate.”*

Senator Pete Domenici, NM

Rapid growth in some areas of the United States is putting unsustainable pressure on water resources. Climate change may exacerbate the problem, making regions even more prone to both drought and flash floods. The arid/semi-arid Southwest is particularly vulnerable. This briefing will address how the science community is helping policy makers and water managers prepare for possible change while meeting the needs of U.S. citizens. How effective are current computer models in predicting water availability for scales ranging from single storm to climatic fluctuations? What are the decision support tools that are being supplied to mitigate and manage current and predicted problems? With how much certainty can we predict water resource availability on a regional scale? What observation systems and model improvement are needed to gain significantly better understanding of the U.S. water cycle? Please join us to hear and speak with the following distinguished panelists:

**Roy Rasmussen** is a senior scientist at the National Center for Atmospheric Research (NCAR) and the lead for NCAR's Hydrometeorology Applications program as well as the Water Cycle Across Scales program, the goal of which is to improve predictions of the water cycle in weather and climate models. Rasmussen has three patents and over 35 peer reviewed journal papers.

**John Wilson** is Professor of Hydrology in the Department of Earth and Environmental Science at the New Mexico Institute of Mining and Technology in Socorro, New Mexico. He is on the board of the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) and is a Fellow of the American Geophysical Union and the Geological Society of America (GSA). Wilson is a recipient of GSA's prestigious O.E. Meinzer Award.

**David Yates** is a Project Scientist in the Research Applications Laboratory at NCAR, and Research Associate with the Tellus Institute in Boston. He is developing the Water Evaluation and Planning model, an analytical tool for looking at the combined effects of climate change and land-use on ecological resources and freshwater services.

**RSVP by Friday, October 28 (important – we need a lunch count!)  
to Gloria Kelly at (303) 497-2102 or gloriak@ucar.edu**

*Presented with the assistance of the Senate Energy & Natural Resources Committee  
Sponsored by the University Corporation for Atmospheric Research (UCAR)*