

## Agenda

### The Importance of Water to the U.S. Economy: Technical Workshop U.S. Environmental Protection Agency Office of Water September 19, 2012

- 7:45 – 8:30    **Conference Registration**
- 8:30 – 8:45    **Welcome and Overview of Workshop Agenda**  
  
Brian Morrison, Industrial Economics, Incorporated
- 8:45 – 9:00    **Opening Remarks**  
  
Michael Shapiro, Principal Deputy Assistant Administrator, U.S. EPA Office of Water
- 9:00 – 12:00    **Perspectives on the Economic Importance of Water: Sponsored Research**  
  
Please note that the time allocated to each speaker during this session includes approximately five minutes for questions from the audience.
- 9:00 – 9:25    ***The Importance of Water to the U.S. Economy: Background Report***  
Brian Morrison, Industrial Economics
- 9:25 – 9:45    ***The Changing Value of Water to the U.S. Economy: Implications from Five Industrial Sectors***  
Mike Matichich, Principal Technologist and Technology Leader for Financial Services in Water, CH2M-Hill
- 9:45 – 10:05    ***Lessons from Short-term Supply Disruptions: Providing Confidence and Context to FEMA's Methodology***  
Craig Aubuchon, Analysis Group, and Kevin Morley, Security and Preparedness Program Manager, American Water Works Association
- 10:05 – 10:25    ***Water Use and Agricultural Production: A County-Level Analysis of the Continental United States***  
Andrew Zaeske, Postdoctoral Researcher, Centre for Environmental and Resource Economics, Umeå University and Swedish University of Agricultural Sciences
- 10:25 – 10:40    **Break**

10:40 – 11:00 ***Applications of Embedded Resource Accounting to U.S. Water Resources***

Benjamin Ruddell, President, Ruddell Environmental, and Assistant Professor, Polytechnic Department of Engineering, Arizona State University

11:00 – 11:20 ***Determining Water Values with Computable General Equilibrium Models***

Elizabeth Fadali, Research Associate, and Kimberly Rollins, Associate Professor, Department of Economics, University of Nevada, Reno

11:20 – 11:40 ***Urban Growth and Water***

Anita Chaudhry, Assistant Professor, Department of Economics, California State University, Chico

11:40 – 12:00 ***Does a Water Economy Exist? The Impact of the Availability of Water on Employment in U.S. Metropolitan Areas***

Craig Aubuchon, Analysis Group

12:00 – 1:00 **Lunch and Lunchtime Speakers**

12:30 – 12:45 ***The National Water Census***

Eric Evenson, Coordinator, National Water Census, U.S. Geological Survey

12:45 – 1:00 ***The Importance of Water to the U.S. Economy: A Perspective from the USGS Science and Decisions Center***

Carl Shapiro, Senior Economist, Energy and Minerals, and Environmental Health and Co-Director, USGS Science and Decisions Center

1:00 – 4:30 **The Economic Importance of Water: Independent Perspectives**

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1:00 – 2:00 ***Primary Sector: Agriculture and Energy Resources***

*Agriculture*

Darryll Olsen, Principal, The Pacific Northwest Project  
Glenn Schaible, Resources and Rural Economics Division, Economic Research Service, U.S. Department of Agriculture

*Energy Resources*

Eric Fry, Director of Regulatory Affairs, Peabody Energy  
Curtis Stanley, Senior Principal Consultant for Soil and Groundwater Management, Shell Oil Company

2:00 –3:00      ***Secondary Sector: Electricity and Public Water Supply***

*Electric Power*

David Asti, Senior Manager, Corporate Environmental Policy, Southern California Edison

Vincent Tidwell, Distinguished Member of Technical Staff, Sandia National Laboratories, U.S. Department of Energy

*Public Water Supply*

Aurel Arndt, General Manager/Chief Financial Officer, Lehigh County Water Authority

Chris Rayburn, Director of Subscriber and Research Services, Water Research Foundation

3:00 – 3:15      **Break**

3:15 – 4:30      ***Tertiary and Quaternary Sectors***

*Strategic Planning and Investment*

Clay Landry, Managing Director, WestWater Research

Steve Maxwell, Managing Director, TechKNOWLEDGEy Strategic Group

*Sustainable Water Resource Management*

Terry Cheek, Environmental Policy and Regulatory Affairs, Tennessee Valley Authority

Venkatesh Uddameri, Associate Professor, Environmental Engineering Department, Texas A&M University-Kingsville

H. Carlton Haywood, Executive Director, Interstate Commission on the Potomac River Basin

4:30 – 5:30      **Plenary Discussion: Paths Forward**

5:30              **Closing Remarks and Adjournment**

Brian Morrison, Industrial Economics, Incorporated