

US EPA ARCHIVE DOCUMENT

**Science to Achieve Results (STAR)
Innovative Small Water Systems
Progress Review**

Louisiana State University Health Sciences Center
Medical Education Building, Room S10 (3109)
1901 Perdido Street
New Orleans, Louisiana 70112

Thursday, Oct. 2, 2014

9:00 a.m. CDT **Registration and Poster Set-Up**

Welcome and Overview of EPA Small Systems Water Research

Research Overview

Dale Manty, Angela Page, and Barbara Klieforth, STAR Project Officers
ORD National Center for Environmental Research

A Model for Successful Implementation of Water Research to the Marketplace

Sally Gutierrez, Water Technology Innovation Clusters

STAR Research and Demonstration of Innovative

Drinking Water Treatment Technology in Small Systems

Angela Page, ORD Safe and Sustainable Water Resources Research Program

9:50 a.m. **Aluminum, Iron, and Point of Use Technologies**

Use of Ferrate Treatment Technologies

David Reckhow, University of Massachusetts

Point of Use (POU) Water Treatment in the Colonias of the Paso del Norte Region

W. Shane Walker, University of Texas at El Paso

Fluoride, DBP Precursors, and Particles: Simultaneous Removal with Aluminum Salts

Desmond Lawler, University of Texas at Austin

Discussion

10:50 a.m. **National Research Center**

*Design of Risk-Reducing, Innovative-Implementable Small-System Knowledge (DeRISK)
Center*

Scott Summers, University of Colorado at Boulder

11:10 p.m. **LUNCH and Tentative Poster Display**

12:40 p.m. **NCER Research Grant Process & Funding Opportunities**

Barbara Klieforth, EPA STAR Project Officer

- 1:00 p.m. **Sorption Techniques**
Small Rural Communities in Missouri
John Yang, Lincoln University of Missouri
- Sorbents and Monitoring Technologies for Small Groundwater Systems*
Paul Westerhoff, Arizona State University
- Municipal Sewage Sludge Based Composite Adsorbents*
Teresa Bandosz, City College of New York
- Discussion
- 2:00 p.m. **National Research Center**
Water Innovation Network for Sustainable Small Systems (WINSSS) Center
David Reckhow, University of Massachusetts at Amherst
- 2:20 p.m. **Ion Exchange Processes**
Catalytic Treatment of Waste Ion Exchange Brines for Reuse during Oxyanion Treatment
Charles Werth, University of Illinois at Urbana-Champaign
- Small, Safe, Sustainable Public Water Systems through Innovative Ion Exchange*
Treavor Boyer, University of Florida
- Discussion
- 3:00 p.m. **BREAK**
- 3:20 p.m. **Membrane and Filter Technology**
Contaminant Removal Using Membrane Distillation
Amy Childress, University of Southern California
- Integration of Filtration and Advanced Oxidation: a Membrane Liquid-Phase Plasma Reactor*
Christopher Bellona, Clarkson University
- Electrospun Nanofiber Filters: Multifunctional, Chemically Active Filtration Technologies*
David Cwiertny, University of Iowa
- Discussion
- 4:20 p.m. **Summary, Wrap-up, and Next Steps**
- 5:00 p.m. **Adjourn to group dinner**