

CENTER FOR THE DEVELOPMENT AND USE OF ALTERNATIVE WATER SUPPLIES  
Opportunities for collaborative research between New Mexico State University and the Bureau of Reclamation

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Las Cruces Convention Center  
August 15-16, 2016

## MEETING AGENDA

Monday, August 15

Objective: Charting a course for the most meaningful and relevant research

8:30      **CONTINENTAL BREAKFAST**

**WELCOME AND INTRODUCTION**

9:00      Dr. Sam Fernald  
Principal Investigator, Cooperative Agreement  
Director, New Mexico Water Research Resources Institute

9:10      Dr. Katie Guerra  
Technical Advisor, Cooperative Agreement  
Chemical Engineer, Bureau of Reclamation

**OPENING REMARKS**

9:15      Dr. Vimal Chaitanya  
Vice President of Research, New Mexico State University

9:25      **BREAK**

**BUREAU OF RECLAMATION**

9:35      *Advanced Water Treatment Research*  
Yuliana E. Porras Mendoza  
Advanced Water Treatment Coordinator, Bureau of Reclamation

*Cooperative Agreement Research Partners*

10:05     Dr. Julie Korak  
Environmental Engineer, Bureau of Reclamation

10:15     Dr. Anthony Kennedy  
Environmental Engineer, Bureau of Reclamation

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10:25 Dr. Rick Huggins  
Environmental Engineer, Bureau of Reclamation

10:35 **BREAK**

10:50 *BGNDRF Capabilities and Upcoming Events*  
Randy Shaw  
Facility Manager, Brackish Groundwater National Desalination Research Facility

**CURRENT RESEARCH**

11:00 *Reducing treatment costs of alternative waters with antifouling ion-exchange membranes*  
Dr. Pei Xu  
Civil Engineering, New Mexico State University

11:15 *Biochar for desalination concentrate management*  
Dr. Catherine Brewer  
Chemical and Materials Engineering, New Mexico State University

11:30 *In-situ synthesis of antibacterial ultrafiltration and microfiltration membranes with controllable pore size*  
Dr. Reza Foudazi  
Chemical and Materials Engineering, New Mexico State University

**TECHNOLOGY COMMERCIALIZATION**

11:45 *Intellectual Property*  
Terry Lombard  
Director of Intellectual Property and Technology Transfer, Arrowhead Center

12:00 **LUNCH** (provided)

**INTERDISCIPLINARY RESEARCH**

1:00 *Energy Water Nexus*  
Vince Tidwell  
Distinguished Member of Technical Staff, Sandia National Laboratories

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1:30      **BREAK: CAMPUS VISITS AND RESEARCH DISCUSSION**

3:00      *Submitting an Interdisciplinary RFP*  
Dr. Sam Fernald and Dr. Katie Guerra

3:15      *Research Idea Roundtable Discussion*

3:45      *Q&A Session*

4:15      **CONCLUSIONS**

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## MEETING AGENDA

Tuesday, August 16

Objective: Hearing from and reaching out to the regional community of the Mesilla Basin

8:00      **CONTINENTAL BREAKFAST**

### **WELCOME AND INTRODUCTION**

8:30      Dr. Sam Fernald  
Principal Investigator, Cooperative Agreement  
Director, New Mexico Water Resources Research Institute

9:00      Dr. Katie Guerra  
Technical Advisor, Cooperative Agreement  
Chemical Engineer, Bureau of Reclamation

### **CURRENT RESEARCH**

9:30      *Reducing treatment costs of alternative waters with anti-fouling ion-exchange membranes*  
Dr. Pei Xu  
Civil Engineering, New Mexico State University

9:35      *Biochar for desalination concentrate management*  
Dr. Catherine Brewer  
Chemical and Materials Engineering, New Mexico State University

9:40      *In-situ synthesis of antibacterial ultrafiltration and microfiltration membranes with controllable pore size*  
Dr. Reza Foudazi  
Chemical and Materials Engineering, New Mexico State University

### **TECHNOLOGY COMMERCIALIZATION AND COMMUNITY INVOLVEMENT**

9:45      Terry Lombard  
Director of Intellectual Property and Technology Transfer, Arrowhead Center

10:00     **BREAK**

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- 10:15     **COMMUNITY SPEAKERS AND ROUNDTABLE DISCUSSION**
- 11:45     **CONCLUSIONS**
- OPTIONAL FIELD TRIP**
- 12:00     Depart to Brackish Groundwater National Desalination Research Facility  
            Alamogordo, NM
- 1:00       **Lunch** (provided)
- 1:30       Presentation and facility tour  
            Randy Shaw  
            Facility Manager
- 2:30       Depart to Las Cruces Convention Center (3:30 arrival)