

Opportunities for Collaborative Research Between NMSU and Reclamation
Building Working Relationships and Discovering Capabilities Among
NMSU Scientists Working on Impaired Water

Preliminary Program

October 5, 2015

- 8:30 a.m. **Continental Breakfast, Senate Chambers (Rm 302)**
- 9:00 a.m. **Welcome and Introductions**
- Call to Order – NM WRRRI Director Sam Fernald
 - Opening Remarks – NMSU Vice President for Research Vimal Chaitanya
 - Sponsor Welcome – Reclamation Chief of Research and Development Levi Brekke
- 9:45 **Workshop Introduction and Objectives** – NM WRRRI Director Sam Fernald
- 10:00 **Recently Funded Research**
- Desalination Concentrate Management for Sustainable Agriculture: A Preliminary Study on Transport Behavior and Plant Viability at BGNDRF – Manoj Shukla, NMSU
- 10:25 **Break**
- 10:45 • Design of Pyrolyzer-Desalination Unit Interface for Distributed Biochar and Clean Water Production – Catherine Brewer, NMSU
- Producing Polymeric Membranes for Ultrafiltration by Water/Oil/Surfactant Templating – Reza Foudazi, NMSU
 - Optimization of Algae Growth Using Concentrate – Jalal Rastegary, NMSU
- 12:00 **Lunch, Doña Ana Room (Rm 312)**
- 1:00 **Reclamation Advanced Water Treatment Research Program Overview, Q&A**
Yuliana Porras Mendoza, Reclamation
- 1:45 **NMSU Technology Commercialization Program**
Terry Lombard, NMSU Arrowhead Center
- 2:15 **Group Topics and Breakout Description**
Katie Guerra, Reclamation
- 2:30 **Break**
- 2:45 **Group discussions on project ideas by focus area**
- 3:45 **Report on group discussions**
Representatives from each group
- 4:45 **Wrap-up and next steps**
Sam Fernald
- 5:00 **Adjourn**

October 6, 2015

- 9:00 a.m. **Tour participants meet at NMSU/WRRI parking lot** (Stucky Hall, 3170 S. Espina St)
- 9:15 **Travel to Brackish Groundwater National Desalination Research Facility (BGNDRF)**
500 LaVelle Road, Alamogordo
- 10:30 **Welcome** – BGNDRF Manager Randy Shaw
- 10:45 **Tour of BGNDRF**
- 11:30 **Break**
- 11:45 **Box Lunch** (provided) **and discussion**
- 12:45 **Departure to NMSU**

Workshop Participants

Wiebke Boeing, NMSU, Fish, Wildlife & Ecology
Levi Brekke, Reclamation
Catherine Brewer, NMSU, Chemical Engineering
Jeffrey Brown, NMSU, Arts & Sciences
KC Carroll, NMSU, Plant & Environmental Sci
Sam Fernald, NM WRRI
Reza Foudazi, NMSU Chemical Engineering
Katie Guerra, Reclamation
Kathryn Hovey, NMSU, Sociology
Michael Johnson, NMSU, Chemistry
Mohsen Karbakhsh, NMSU, Civil Engineering
Nirmala Khandan, NMSU, Civil Engineering
Terry Lombard, NMSU Arrowhead Center
Hongmei Luo, NMSU, Chemical Engineering
Anna Malakian, NMSU, Chemical Engineering
Maung Myint, NMSU, Civil Engineering
Yuliana Porras Mendoza, Reclamation
Richard Pratt, Plant & Environmental Sciences
Jalal Rastegary, NMSU, Inst for Energy & Environment
Swagotom Sarker, NMSU, Chemical Engineering
Mansour Saberi, NMSU, Chemical Engineering
Randy Shaw, Reclamation
Manoj Shukla, NMSU, Plant & Environmental Sci
Zetdi Sloan, NMSU Arrowhead Center
Huiyao Wang, NMSU Civil Engineering
Pei Xu, NMSU Civil Engineering