

## Brackish Groundwater National Desalination Research Facility (BGNDRF) Newsletter



***From the Manager:** We are pleased to present another issue of our periodic newsletter. It is designed to be a brief, information-filled page that will be of interest to our customers and friends. Feedback is welcome. Please contact me at (575) 443-6553 or email me at: [rshaw@usbr.gov](mailto:rshaw@usbr.gov).*

Randy Shaw, PE

### BGNDRF 10<sup>th</sup> Anniversary Desal-a-bration September 12-13, 2017

The Bureau of Reclamation is proud to announce the BGNDRF 10<sup>th</sup> Anniversary Desal-a-bration, a two-day event beginning with a reception and tours at 4:30 p.m. on Tuesday, September 12<sup>th</sup>. Speeches and presentations will begin at 5:30 p.m. Dignitaries and elected officials have been invited to share their thoughts and experiences during the past 10 years of BGNDRF and its future. It will be an educational evening celebrating the accomplishments and value of the facility in the development of brackish groundwater desalination and processes.

Wednesday, September 13, 2017, will begin with a lecture at 9 a.m. on water treatment technology for space by Michael Flynn, an expert from NASA. Another lecture will take place at 10:30 a.m. on emerging contaminants by Dr. Clinton Williams of the Department of Agriculture.

Later Wednesday afternoon, in an effort to highlight our successful focus on public outreach and education, we will be hosting regional FIRST Robotics and FIRST Lego League members. Their annual competition this year will have a water related theme. We are currently planning for 300 students, mostly 4th to 8th graders, to attend.

If you would like to attend any of the activities, you can pick up a free ticket at the Eventbrite website below:

<https://www.eventbrite.com/e/bgndrf-10th-anniversary-desal-a-bration-tickets-36685273641>

Blocks of hotel rooms were reserved for the event until 9/1. Contact me soon if you would like more information.

### Current Research Projects

1. Wind and Solar Energy for Desalting Water for Potable and Agricultural Use – University of North Texas; Dr. Miguel Acevedo
2. RO Concentrate as an Irrigation Source for Halophytes – New Mexico State University (NMSU); Dr. Manoj Shukla
3. Characterization of Thin Film Nanocomposite BWRO Membranes - LG Chem; Dr. Dian Tanuwidjaja
4. Evaluation of Novel Scaling and Fouling Control Technologies for RO Pretreatment – NMSU; Dr. Pei Xu
5. Selectivity of Ions Removal and Development of Antifouling Ion Exchange Membranes for Electrodialysis – NMSU; Dr. Pei Xu
6. Novel Use of Ion Exchange with RO - Lehigh University; Dr Mike German
7. Photobioreactor of RO Concentrate Treatment for Second Stage RO – Pacific Advanced Civil Engineering – Dr. Keisuke Ikehata
8. Selenium Removal Using Particle Adsorption Technology – Global Environmental Legacy Foundation; Brett Danson, President
9. Salt Sensitivity of Southwestern Open Pollinated Maize - NMSU; Randall Montgomery

**For More Information about BGNDRF:** <http://www.usbr.gov/research/bgndrf/>