

Brackish Groundwater National Desalination Research Facility (BGNDRF) Newsletter



From the Manager: We are pleased to present the second 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.
Kind Regards, Randy Shaw, PE

Highlights of Current Research

Water Standard:

Water Standard, is piloting its H2Ocean Spectrum™ Technology for water-based enhanced oil recovery (EOR). “The H2Ocean Spectrum™ Technology allows producers to customize water quality in real time to further optimize EOR performance once in the field, and meet challenging water requirements.” “Water Standard is also piloting and evaluating a new generation of experimental and commercial reverse osmosis and nanofiltration membrane technologies.” Water Standard’s pilot tests use artificial seawater using RO permeate provided by BGNDRF. This is unique for BGNDRF where feed water is typically brackish water from one of four source water wells. For more information go to: <http://waterstandard.com/>

KII, Inc.:

Mr. Hill Kemp of KII, Inc. is testing his recently patented Suns-River Solar Still. The still is a departure from the classic still by incorporating a falling film of water on a tilted adsorption surface almost normal to incident solar radiation. Condensation is enhanced through heat exchanger tubing cooled by the brackish feed water. For more information go to: <http://suns-river.com/>

More Information About BGNDRF:

<http://www.usbr.gov/research/AWT/BGNDRF/index.html>

More Current Research at BGNDRF

NMSU/GE: Electro-Dialysis Reversal (EDR) and Reverse Osmosis (RO) with Nanofiltration (NF)

UNR: Pressure Retarded Osmosis Assisted Desalination

TTU: Small Scale RO with High Recovery

Up-Coming Research at BGNDRF

UTEP/Veolia: Zero Discharge Desalination

OTHER NEWS

BGNDRF: Top 8 Finalist



President Obama challenged the private and public sectors to make rapid investments in creating a more sustainable, energy-efficient workplace. Associated with that challenge, the White House and DOE challenged Federal agencies to nominate competitors for this year’s Better Buildings Award. BGNDRF was selected as a finalist representing the DOI. Mr. Steve Holland, BGNDRF Electronic Technician, is to be commended for his work in making this possible. For more information about the top 8 finalists go to: <http://www1.eere.energy.gov/femp/services/betterbuildings.html>