

**2010 New Mexico Water Research Symposium
August 3, 2010; New Mexico Tech, Macey Center**

(note: numbers preceding presentation titles refer to the abstract's corresponding number; presenter's name in bold)

Theater 9:00 am	Welcome and Tribute to Bobby J. Creel (WRII Associate and Interim Director, 1986-2010), Karl Wood, WRII Director Resource Interdependence, Howard Passell, Sandia National Laboratories		
	Theater	Galena Room	Copper Room
	Resource Interdependence – Water and Energy	Characterizing Water Use and Conserving Water Resources	Treatment and Reuse of Saline and Impaired Water
9:30	4) Harnessing the Power of New Mexico's Dairies - Davis, Tonander , Hughes	10) Ultimeater, Measuring Flow the Easy Way - Samani	7) Selective Recovery of Desalination Concentrate Salts Using Interstage Ion Exchange - Goldman , Howe, Thomson
9:50	28) Impacts of Salinity on Growth of Marine Microalgae Nannochloropsis and Invaders in Biodiesel Production Systems - Bartley , Corcoran, Boeing	14) Utilizing GPS and GIS to Model and Analyze Water Distribution Systems in San Juan County, New Mexico – Miller, Chavez	11) Optimization of Electrodialysis Reversal Desalination Process and Influence of Operating Parameters on Separation Percentage and Current Efficiency – Vennam , Ghassemi
10:10	31) Desalination Using Solar Energy: Towards Sustainability - Gude , Khandan, Deng	34) Landscape Consumptive Water Use Estimation - Which Method to Use and Why? - Dwivedi , McCord, Clark	12) Modeling of Electrodialysis Reversal (EDR) Process Associated with the Energy Consumption – Praturi , Ghassemi
10:30	BREAK/POSTER VIEWING	BREAK/POSTER VIEWING	BREAK/POSTER VIEWING
11:00	9) Multi-National Collaborative Modeling of Water Dependent Resources in the Tigris-Euphrates River Basin - Roach , Reno, Passell, Klise, Tidwell	3) Living Off-Grid in an Arid Environment Without a Well – Can Residential and Commercial/Industrial Water Harvesting Help Solve Water Supply Problems? - Axness , Ferrando	16) Improving the Electrodialysis Reversal Desalination Method to Obtain a Higher Water Recovery Rate at Lower Cost - Myint , Rajaraman, Ghassemi, Vandana, Kiran, Vennam
11:20	1) Curb the Urge to Purge: Is Now the Time to Switch to No-Purge Ground Water Sampling? - Cordry	6) Performance of a Green Roof Model in an Arid Climate - Young	17) Limiting Current Density as a Function of Electrolyte Temperature, Concentration and Flow-Rate/Velocity in Desalination of Brackish Water by Electrodialysis Reversal - Chintakindi , Ghassemi
	Characterizing Current and Future Water Sources and Availability		
11:40	15) Evaluating Sensitivity Analysis and Autocalibration of a Semi-Distributed Hydrologic Model for a Semi-Arid Watershed - El-Sadek , Shukla, Bleiweiss, Fernald, Guldan		23) Removal of Uranium, Arsenic and Fluoride from Impaired Groundwater Using Membrane Distillation Process - Yarlagadda , Gude, Camacho, Pinappu, Deng
12:00	LUNCH/POSTER VIEWING	LUNCH/POSTER VIEWING	LUNCH/POSTER VIEWING

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1:20	19) Marrying Disparate Data Sources in Developing a Groundwater Flow and Transport Model of the Alamitos Gap Seawater Intrusion Barrier, LA and Orange Counties, CA - Sigda , Sengebush, Jordan, Sovich, Li	21) Changing Rules Both Facilitate and Impede Water Independence - Silber	30) Polyphosphate Accumulating Organisms in Activated Sludge: Biokinetics and Competition for Carbon – Tu , Schuler
1:40	33) Environmental Tracers in Groundwater of the Salt Basin, NM, and Implications for Water Resources - Sigstedt	8) Reference Evapotranspiration Toolbox - Dang , Sammis, Funk, Tran	40) Expansion of the Sanitary Effluent Reclamation Facility (SERF) at LANL: Reducing, Reusing and Recycling Potable Water at LANL – Wingo , Hanson
		Processes Affecting Water Quality	Irrigation Management
2:00	13) Trends in Headwater Flows in Response to Global Warming in the U.S. Southwest – Liu , Sheng	5) Evolution of Groundwater Chemistry during Surface Runoff and Infiltration Processes - Al-Qudah , Walton, Woocay	2) Using an ADCP to Determine Canal Seepage Loss in an Irrigation District - Kinzli , Martinez, Oad, Prior, Gensler
2:20	25) Climate Change Impact on Streamflow, Bosque Del Apache – Bui , Coonrod	20) Transport of Nitrate and Chloride in Saturated Soil Columns – González-Delgado , Shukla	27) Spatial Variability of Soil Hydraulic Properties in Agricultural Fields of Southern New Mexico: Implication on Irrigation Management - Sharma , Shukla, Mexal
2:40	BREAK /POSTER VIEWING	BREAK /POSTER VIEWING	BREAK /POSTER VIEWING
3:00	36) Applying Distributed Temperature Sensing (DTS) to New Mexico Climate Change Research - Harding , Wilson, Gomez	26) Development of a Water Quality Modeling Tool for Evaluation of Lower Rio Grande Salinity Management Alternatives – Liu , Shafike, Barroll, Doremus	39) Relation between Fractional Canopy Cover and Crop Coefficient in Pecan Orchards Based on Orchard Floor Photographic Imagery - Samani
	Resource Management Models & Strategies		
3:20	22) Conjunctive Use of Surface and Ground-water in the Southern Española Basin, Santa Fe County, New Mexico - Torres	37) Water Resources Assessment of the Cimarron River and Evaluation of Water Quality Characteristics at the Maxwell National Wildlife Refuge - Zemlick , Wamsley, Samson, Siles	38) Water Fluxes in the Unsaturated Zone of a Mature Pecan Orchard in Arid Southern New Mexico - Deb , Shukla, Mexal
3:40	24) The Use of Numerical Models in Decision-Making Process - Shafike		29) Spatial Variability of Infiltration Rate and Soil Chemical Properties of Desert Soils: Implications for Management of Irrigation Using Treated Wastewater - Adhikari , Shukla, Mexal, Daniel