

Monday, August 31, 2009

Plenary Session I 8:00 to 10:00				
8:00	Welcoming Remarks			
8:30	David Modeer General Manager, Central Arizona Project <b>"The Cost of Change"</b>			
9:15	David Salisbury President and CEO, Resolution Copper Mining <b>"Resolution Copper Mining - Our approach to sustainability in mining now and in the future"</b>			
Technical Session I 10:30 - Noon				
ROOM	Herberger 1	Herberger 2	Herberger A	Herberger B
Session #	1	2	3	4
Session Title	Water Resource Management I	Groundwater Quality	Water Research	Hydrogeology
Moderator:	Alan Dulaney	Beth Proffitt	Ted Lehman	Christie O'Day
10:30 to 10:55	<b>Drought and adaptive water resources management in southern AZ</b> Anne Browning-Aiken and Christopher A. Scott	<b>Water quality parameters for the Yaqui Valley aquifer</b> Juan Manuel Cortes-Jimenez, et al	<b>Hydroplaning and roadway defects on roadways</b> Elvin Aycock	
11:00 to 11:25	<b>Flagstaff, AZ Water Supplies - what is sustainable?</b> Bradley Hill	<b>100% clean water for rural communities of Mexico</b> Florence Cassassuce	<b>Passive Soil Gas Survey Mass to Concentration Tie-In Procedure: Improved Technique for a New Realm of Interpretive Power</b> Joseph E. Odencrantz, Ph.D, Beacon Environmental Services	<b>The application of gravity methods in diverse hydrologic systems</b> Robert Carruth
11:30 to 11:55	<b>Total Water Management - a business model to ensure resource conservation</b> Trevor Hill	<b>Bacteriological water quality of rural drinking supply schemes in Nepal</b> Suman K. Shakya	<b>Life Cycle Water Consumption of Alternative, Low-Carbon Transportation Fuels</b> CAP AWARD WINNER: Christopher Harto	<b>Geologic and hydrologic issues related to uranium mining in the Grand Canyon region</b> Donald J. Bills and Robert J. Hart
Technical Session II 1:30 to 3:00				
ROOM	Herberger 1	Herberger 2	Herberger A	Herberger B
Session #	5	6	7	8
Session Title	Water Resource Management II	Remediation	Surface Water Quality	Panel Discussion
Moderator	Alan Dulaney	Lee-Anna Walker	Jim Leenhouts	Abe Springer
1:30 to 1:55	<b>Integrated Water Management in La Paz, Mexico</b> Lorenzo Castaneda dl Pozo	<b>Use of cross-borehole flow meter testing to support the evaluation of remedial alternatives in a fractured bedrock aquifer</b> Thomas R. Suriano	<b>Improving CO River water quality: a lesson in patience</b> Doyle Wilson	<b>The Future of Geology in Arizona Colleges</b>
2:00 to 2:25	<b>A new perspective on well siting, groundwater management plan, City of Phoenix, AZ</b> Paul R. Plato, Brad D. Jeppson and Gary M. Gin	<b>Mine reclamation within a floodplain - the Klondyke WQARF registry site</b> Michael J. Henrich and Todd E. Rlnsmuth	<b>Detecting the undetectable - using passive sampler technology to identify emerging contaminants in a spring downstream from a wastewater treatment plant</b> Nick Paretti and Bruce Gungle	
2:30 to 2:55	<b>Reverse Osmosis Treatment of Central Arizona Project Water—Brine Minimization Via Vibratory Shear-Enhanced Processing</b> CAP AWARD WINNER: Andrea F. Corral	<b>In Situ chemical reduction for groundwater chromium stabilization</b> John Valkenburg	<b>Optimal water quality monitoring network design for Altamaha River system</b> Ilker T. Telci and Mustafa M. Aral	
Technical Session III 3:30 to 5:00				
ROOM	Herberger 1	Herberger 2	Herberger A	Herberger B
Session #	9	10	11	12
Session Title	Water Resource Management III	Remediation	Flood Part I	Reuse
Moderator	Tasha Lewis	Ailiang Gu	Chris Smith	Gary Small
3:30 to 3:55	<b>Desalting Water: An Option within a Sustainable Aquifer Management</b> Pedro Soto-Navarro	<b>EHC-O - oxygen releasing compounds for in-situ bioremediation of petroleum hydrocarbons</b> Ravikumar Spirangam et al	<b>A simplified look at concurrent flooding</b> David B. Thompson	<b>Subsurface effluent injection adjacent to the CO River</b> Doyle C. Wilson
4:00 to 4:25	<b>Can an Ancient Water Supply Technology be Adapted to Sustain the San Pedro River, AZ?</b> Charles Graf	<b>In situ chemical reduction of 1, 2 - DCA in groundwater</b> Fyaz Lakhwala et al	<b>Observation made of the Aug. 17, 2008 high flow in Havasu Creek, Steps taken to setup a flood warning system for Supai</b> Steve Wiele & Chris Smith	<b>The Water Campus: from dream to reality</b> Leonard Dueker, Marshall Brown and Gary G. Small
4:30 to 4:55	<b>Sustaining river flows in the face of growing water demands in AZ</b> Jeanmarie Haney, et al	<b>JP-5 distribution and recovery performance - a case study at a military hydrocarbon spill site</b> David Li, et al	<b>Methods For Estimating Magnitude and Frequency of Floods in Arizona</b> Nick Paretti	<b>Vadose zone recharge wells 10 years later at the City of Scottsdale's Water Campus facility</b> Jesus Gastelum, Mario Lluria and Gary G. Small

Tuesday, September 1, 2009

**Technical Session IV  
8:00 to 10:00**

ROOM	Herberger 1	Herberger 2	Herberger A	
Session #	13	14	15	
Session Title	Policy and Education Part I	Recharge	Flood Part II	
Moderator	Mike Hulst	Doug Bartlett	Allen Gookin	
8:00 to 8:25	<b>How can predictive depth to static water level be modeled?</b> George (Tom) Merrifield	<b>UIC/ASR Expert Meeting Summary: May 2009 EPA Region 5 Headquarters, Chicago, IL</b> Doug Bartlett	<b>Colorado Basin River Forecast Center Operations</b> Kevin Werner	
8:30 to 8:55	<b>The School Water Audit Project</b> Nancy R. Crocker	<b>Conceptual plan for recovery of CAP water stored at Tonopah desert recharge project, Maricopa Co, AZ</b> Mark Cross, Staffan Schorr and Taylor Shipman	<b>FLODRO 4.0: Spreadsheets Based Flood Frequency Analysis Computer Package</b> Jose A. Raynal-Villasenor	
9:00 to 9:25	<b>Arizona Well Owner's Guide to water supply</b> Kristin Uhlman and Janick Artiola	<b>Effects of spatial hydrogeologic variability in recharge applications</b> David J. Wrzosek	<b>Inundation mapping for emergency action planning - examples from high hazard dams in AZ</b> Ted Lehman	
9:30 to 9:55	<b>Working with Project-critical Contractors</b> Barry Halterman	<b>Impacts of Ephemeral Flow Events on Recharge and Underlying Groundwater Flow in the Salt River Basin, Phoenix, AZ</b> Bradley Cross, John Kevitt and Robert Forsberg	<b>Preferred alternative selection for the Buckeye FRS #1 dam rehabilitation project</b> Padinare Unnikrishna and Isaac Thomas	

**Technical Session V  
10:30 to Noon**

ROOM	Herberger 1	Herberger 2	Herberger A	Herberger B
Session #	16	17	18	19
Session Title	Policy and Education Part II	Groundwater Modeling	Watershed Management	Sedimentation Issues
Moderator	Mike Hulst	Paul Plato	Lisa Spahr	Nathan Toke
10:30 to 10:55	<b>Valuing the Verde River - community input for decision-making</b> Patricia A. West, et al.	<b>Model accounting of water-use and availability in SE Union County, NM, part of Cimarron Co., OK, and parts of Dallam and Hartley Co, TX</b> Dave M. Romero, and Steven E. Silver	<b>Extreme floods and riparian forest response</b> Juliet C. Stromberg, et al.	<b>Determination of an Event-based Sediment Delivery Ratio for a Small, Piedmont Watershed in Suburban Maryland</b> Blaine W. Linkous
11:00 to 11:25	<b>Economic benefit of commercial and industrial water use in a semi-arid municipality</b> David Hubler, et al.	<b>Combining the Hassayampa and WSRV groundwater flow models</b> Brent Cain and Julie Wright	<b>Generation of simulated monthly rainfall accumulations and associated monthly evaporation depths for use in the management of small reservoirs and water harvesting for Central TX</b> George R. Herrmann and Theodore Cleveland	<b>Biogeochemical connectivity in a semi-arid river basin - San Pedro River, AZ</b> Thomas Meixner
11:30 to 11:55	<b>Survey of Public Perceptions Regarding Water Reuse in AZ: Challenges and Opportunities</b> Channah Rock, et al	<b>How limited are analytical groundwater models?</b> George (Tom) Merrifield	<b>USGS National Hydrology Data set program overview</b> Jeff Smiley	<b>Geologic investigations of urban sedimentation in Tempe, AZ using retention structures</b> Laila El-Ashmawy, Nathan A. Toke and J. Ramon Arrowsmith - talk and POSTER

**Luncheon Speaker  
Noon to 1:30 PM**

Miguel Medina, Jr., PhD.  
Professor, Dept of Civil and Environmental Engineering Duke University  
**"Assessment of Global Water Resources"**

**Technical Session VI  
1:30 to 3:00 PM  
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Tuesday, September 1, 2009

Technical Session VI 1:30 to 3:00 PM				
ROOM	Herberger 1	Herberger 2	Herberger A	
Session #	20	21	22	
Session Title	Permitting	Wells Part I	Surface Water Modeling Part I	
Moderator	Jessica Jensen	Marvin Glotfelty	Emitt Witt	
1:30 to 1:55	<b>Groundwater protection in AZ - a foundation for augmenting water supplies</b> Michele Robertson	<b>Borehole slug testing - value as a construction guide</b> Peter Godfrey and Erin Young	<b>FLO-2D Modeling of Alluvial Fans</b> Ted Lehman	
2:00 to 2:25	<b>The ABCs of APPs - how to tell your PMA from your DIA and find your POC</b> Lisa Spahr and Keith Scoular	<b>Recognition and successful development of fractured tight Navajo sandstone aquifer, SE Utah</b> Clay M. Conway and Norman Carlson	<b>Water resource risk analysis modeling in the Santa Cruz AMA</b> Keith Nelson	
2:30 to 2:55	<b>Best Management Practices applicable for the semi-arid SW - evaluation and recommendation</b> Jonathan Burnett, Channah Rock and Kristine Uhlman		<b>Annual Virgin Flows in Central Arizona</b> Allen Gookin	
Technical Session VII 3:30 to 5:00 PM				
ROOM	Herberger 1	Herberger 2	Herberger A	
Session #	23	24	25	
Session Title	Climate Part I	Wells Part II	Surface Water Modeling Part II	
Moderator		Peter Godfrey	David T. Williams?	
3:30 to 3:55	<b>Construction and application of a linearized aridity index based on rainfall and air temperature data</b> Enrique Troyo-Diequez, et al.	<b>Replace or Retrofit? - Part 1 - rehabilitation evaluation of problematic sand content in a west valley production well</b> Wayne M. Feller and Lauren Handley	<b>Distributed hydrologic modeling - a better tool for simulating AZ's hydrologic surface response</b> Edward Clark	
4:00 to 4:25	<b>Results of climate change and its probable influence on water resources in Azerbaijan</b> R.N. Mahmudov	<b>Replace or Retrofit? - Part 2 - design and installation of a pre-pack casing liner to mitigate sand invasion in a west valley production well</b> Lauren Handley and Wayne M. Feller	<b>Determining the uncertainty in hydrology for risk and uncertainty analysis</b> David T. Williams	
4:30 to 4:55	<b>Debris flows and drought: monitoring aquifer storage during hydrologic extremes in the upper San Pedro basin, 2000-08</b> Jeff Kennedy	<b>Unsolved mysteries in well construction - a case of hidden but substantial tensile stresses during filter pack sand installation</b> Allison H. Jones and Marvin Glotfelty	<b>Interaction of loss components, rational coefficients, and arid climate: a thought experiment</b> Gerge R. Herrmann and Theodore Cleveland	
Dinner Speaker 6:30-8:30 PM				
Doug Wolfe President, Renaissance Environmental Mangement <b>"Zuni Basin Dinosaurs"</b>				

Wednesday September 2, 2009

<b>Technical Session VIII</b> <b>8:00 to 10:00 AM</b>				
ROOM	Herberger 1	Herberger 2		
Session #	26	27		
Session Title	Climate Part II	Tools		
Moderator	Enrique R. Vivioni	Matt Beversdorf		
8:00 to 8:25	<b>How climate change may affect flows in the Verde River watershed</b> Edwin McGavock	<b>Combining GIS and MVS for 3-D analysis of lithology and groundwater flow in the eastern portion of the west Salt River sub-basin, Phoenix, AZ</b> Eric Rogoff, John Kivett and Christopher Hickman		
8:30 to 8:55	<b>Navajo Nation surface water data collection - understanding climate change</b> Jolene Tallsalt Robertson	<b>Deep Groundwater Exploration in the Flagstaff, Arizona Area using CSAMT</b> Norman Carlson		
9:00 to 9:25	<b>Exploring monsoon hydrology through field observations, remote sensing, and numerical modeling</b> Enrique R. Vivioni	<b>ADWR groundwater site inventory (GWSI) web application - a useful tool for AZ hydrologists</b> Matthew Beversdoff, A. Fisher, and K. Martini		
9:30 to 9:55	<b>Review of Groundwater Monitoring Wells Throughout Arizona using established well criteria and statistical analysis of water level changes for the purpose of establishing a statewide drought indicator well network</b> Steve Flora and Teri Davis	<b>Integrating a flood hydroclimatology database with the AZ hydrologic information system</b> Matthew Garcia and Katherine K. Hirschboeck		
<b>Plenary Session II</b> <b>10:30 AM to Noon</b>				
10:30 to 11:15	Jonathan Overpeck, PhD, Professor Dept of Geosciences and Atmospheric Sciences Univ. of Arizona Co-Director Department for Environment and Society <b>"Climate Variability, Climate Change and Water in the West"</b>			
11:15 to Noon	Terry Fulp, PhD Lower Colorado Deputy Regional Director – Bureau of Reclamation <b>"Managing Colorado River Reservoirs in an Era of Climate Variability and Change"</b>			