

2009 AWRA SUMMER SPECIALTY CONFERENCE: Adaptive Management of Water Resources II - June 29 - July 1, 2009, Snowbird, Utah

		Concurrent Session 1			Concurrent Session 2			Concurrent Session 3			Concurrent Session 4		
DATE	TIME	SESS #	SESSION NAME	PAPER # PAPER TITLE AND AUTHOR	SESS #	SESSION NAME	PAPER # PAPER TITLE AND AUTHOR	SESS #	SESSION NAME	PAPER # PAPER TITLE AND AUTHOR	SESS #	SESSION NAME	PAPER # PAPER TITLE AND AUTHOR
	8:30 -10:00	Opening Plenary Session Leadership Panel - Perspectives on Water Resources Adaptive Management (AM): Issues and Challenges											
	10:00 -10:30	BREAK											
Conference Day 1 - Monday, June 29	10:30 - noon	1	Panel - An Adaptive Management Overview: Defining, Using, and Recognizing Success -Olivia Ferriter	Art Coykendall - What is AM and when should it be used? Defining, structuring, and developing an operational approach to AM Byron K. Williams - How should AM be implemented? Operational approaches to AM Carl Shapiro - When is AM successful? Recognizing and measuring success in AM	2	Adaptive Management in Riparian Ecosystem Restoration	6075 J. Helkowski-Hydrologic Suitability Evaluation of the Kissimmee River Floodplain in Florida 6016 C. Fleming-Development of an adaptive management (AM) program to support recovery of the Missouri River: Creating functional shallow water and emergent sandbar habitat 6036 B. Tillemans-Adaptive Management of the Lower Owens River Project: Where Policy and Science Meet 6115 H. Kim-Cheonggye-cheon Restoration Project and Adaptive Management of Its Water Quality	3	International or Transboundary AM	6117 A. Eberhardt-Adaptive Management and Great Lakes Outflow Management 5988 M. Davidson-Collaborative Adaptive Management and Governance for the Kidron Valley/Wadi Nar Catchment Basin 6014 T. Qtaishat-Water supply brick wall: Jordan's dilemma 6109 C. Kuenzer-A Water-related Information System for the Sustainable Development of the Mekong Delta in Vietnam – the WISDOM project	4	AM Decision Support Systems & Information Management Systems	6028 M. Muste-From Ecohydrologic Observatories to Integrated Water Resources Management 6094 B. Lee-Bayesian Network Modeling for Adaptive Management to Control Estrogen Compounds from Swine CAFOs 5996 David Jordan-A GIS-Based Water Resources Supply Decision Support System For Santa Fe County , New Mexico 6040 N. Shaukat-Redevelopment of Water Resources Information System for Santa Clara Valley Water District
	1:30 - 3:00	5	Panel - Adaptive Management in Practice: Policy, Law, and Stakeholder Involvement	TBD - Engaging stakeholders in AM: Ensuring stakeholder commitment for the long haul NEPA process: AM in the context of legal and regulatory requirements Greg Arthaud - AM and policy: The use of a learning-based decision process on policy development	6	Adaptive Management in TMDLs	6064 C. Logue-20 years of TMDL implementation: Adaptive Management of phosphorus concentrations in the Tualatin River, OR 6090 K. Lombardi-Adaptive Management of East Canyon Creek – A Watershed Approach 6093 E. Gaddis-East Canyon Reservoir Water Quality Improvement and Revised Total Phosphorus TMDL 6104 H. Kim-Adaptive Management in a Nationwide Implementation of Water Quality Telemonitoring System for Controlling Point Sources Discharge in Korea	7	Water Supply & Demand AM 1	6037 L. Welsh-The Process of Adapting to Droughts: Humans Connected Through Hydrology and History in the Bear River Basin of Idaho, Utah and Wyoming 6056 J. Kenny-Adaptive Management for Land and Water Resources in the Platte River Basin 6057 K. Nichols-Salt Lake Countywide Water Quality Stewardship Plan 6068 J. Ibrahim-Managing Water Supply Operations to Maximize Efficiency and Sustain Habitat	8	AM Collaboration & Consensus Building	6042 H. Minnigh-Engaging the Community and Agencies in Adaptive Management of Urban Stormwater 6010 J. Haun-Rural Community Demands Their Right to be heard on Water Preservation 6020 T. Kirkham-"Keep It Pure!"-Protecting Salt Lake City's Drinking Water
	3:00 - 3:30	BREAK											
	3:30 - 5:00	9	Panel – Applying Adaptive Management: Models, Monitoring, and Uncertainty - Byron K. Williams	James D. Nichols - The use of models in AM: Characterizing how the system works with uncertainty Scott Boomer - Monitoring: Tracking system responses to management actions Bernard Bormann - Characterizing and reducing uncertainty with AM: a learning-based decision process	10	Market-based Approaches Using AM	6044 A. Caplan-Going With the Flow: Using a Water Quality Model to Operationalize Water Quality Trading 6059 C. Stanger-Virginia's State-wide Nitrogen and Phosphorus Credit Trading Program – A Discussion of History, Market Structure, and Trading Policies 6071 B. Neilson-Watershed Modeling for Water Quality Trading 6000 Malka Pattison-Adaptive Management and Ecosystem Services	11	Water Supply & Demand AM 2	6079 T. Bogan-Evaluating Future Physical Water Supply in Oklahoma 6087 G. McCurry-Will Water Rights Allocation in the Western United States Need to Adapt to Climate Change Impacts? 5997 N. Weragala-Use of Optimization Modeling in Adaptive Management of Water Resources: A Case Study from Walawe River Basin, Sri Lanka 6033 J. Sciandra-Crisis Averted: How Collier County used a Programmatic Approach to Overcome a Water Supply Shortfall and Secure its Water Future	12	Social Science Aspects in AM including Consensus Building	6029 K. Steiger-Meister-The Drama of the Commons and its Impact on Adaptive Management: A social science perspective on the slippery nature of water policy 6053 M. Cope-Construction of Nature, Core Values, and Water Conflict Resolution: the Role of Hydro-geographic Data and their Policy Implications 6024 Chadwin Smith-Structured Decision Making and Rapid Prototyping for Adaptive Management Implementation on the Platte River 6106 A. Plutynski-Water in the West: Values, Science and Policy
	5:00 - 6:30	NETWORKING RECEPTION											

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8:30 - 10:00	13	Panel – Adaptive Management on the Ground: Placed-Based Applications - Carl Shapiro	6097	K. Esterson-Water Resource Planning and Mgmt in Uncertain Conditions: The Relationship between Scenario-Based Planning and Adaptive Mgmt	14	Climate Change Adaption	6118	A. Choate-Adaptive Management in the Context of Climate Change: A Preliminary Review of Adaptation Options for Climate-Sensitive Ecosystems and Resources	15	Watershed AM	6107	M. McKinstry-Using Adaptive Management in the Recovery of Endangered Species in the San Juan River Basin, USA	16	Monitoring Strategies Supporting AM 1	6050	B. Phillips-Natural Stream Stability / Erosion Monitoring Program for Urbanizing Watersheds	6105	H. Kim-On-line Monitoring Systems Supporting an Adaptively Managed Water Cons. Policy in South Korea																																										
																			17	Aaptive Management of Large Scale of U.S. Army Corps of Engineers Restoration Programs - Tomma Barnes	6046	J. Kiefer-Challenges Associated with Climate Changes Scenarios into Long-Term Municipal/Industrial Water Demand Forecasts for the San Diego Area	18	Climate Change Models Supporting AM	6103	J. Lillywhite-Scaling Climate Change Down to Site Specific Models	19	AM of Wetlands	6095	P. Gerla-Assessing the Hydrological Effects of Drainage Ditch Management – A Case Study from Northwest Minnesota	20	Monitoring Strategies Supporting AM 2	6077	S. Erwin-Calibrated Transport Relations, Sediment Budgets, and Applications to River Management	6101	I. Gayl-Storm Properties: How understanding rainfall history improves high impact applications	5999	Gary Denton-Spatial and Temporal Variations in Guam's Groundwater Quality: 1996-2006																						
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3:30 - 5:00	25	AM in the Comprehensive Everglades Restoration Plan - Andrew LoSchiavo	6001	D. Griffith-The Potential Use of Winter Cloud Seeding Programs to Augment the Flow of the Colorado River	26	Science Supporting Climate Change Adaption	6021	C. Leaf-Process And Significance Of Interception In Colorado Subalpine Forest - Revisited 41 Years Later	27	Models Supporting AM 2	6019	K. Neil-Hydrostratigraphy and Aquifer Characteristics of South Las Posas Basin, Ventura County, California	28	Reservoir Operations using AM	6070	J. Openheimer-Development of adaptive management strategies for a recently licensed hydropower facility	6039	S. Schnier-Issues in Assessing Short-Term Water Supply Capabilities of Reservoir Systems																																										
																			6045	Elmar von Kurzbach	6026	D. Griffith-Possible Air Pollution Impacts on Winter Orographic Precipitation in the Western U.S.	6030	P. Flack-Resource Based Modeling - An Easily Understood Adaptive Management Tool	6017	R. Green-Data-Driven Lake and Reservoir Monitoring Using Real-Time 3-D Hydrodynamic and Water-Quality Simulations																																		
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6045	LoSchiavo	6026	K. Smith - Addressing Climate Change under the FERC Hydropower Relicensing Process																																																									

Conference Day 3 - Wednesday, July 1

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	8:30 - 10:00	29	US, Mexico & Canada Panel on International, Transboundary AM		<p>Mark Colosimo</p> <p>Carlos Pena</p>	30	Climate Change Adaption- Integrating Projections into Water Planning and Management 2	6003	I. Goklany -Is Adaptive Management Applicable to Global Climate Change?	31	Panel on Cornerstones of Adaptive Management: Science, Collaboration and Institutional Resilience	6108	David Sales	32	Models Supporting AM 3	6066	J. Lambert -Flood Frequency and Debris Effects
				6073	E. Heinen -Water Resources Planning and Permitting in a Changing Climate			6051	Y. Yang -Assessment of Impact of Climate Change on Surface Water Availability in Texas River Basins			6091	M. Jeng -Applying COIN-OR Optimization Library to a Large Scale Water Transmission			6114	C. Barlow -Spatial hydrologic modeling using the GSSHA model and the WMS
												6031	R. Livingston -Advances in Estimation of Reservoir-Release Transit-Loss: Combining Interactive Stream-Aquifer Modeling with Real-time Flow Data, Ar River from John Martin Res. to the CO-KS Stalene				
	10:00-10:30	BREAK															
	10:30-12:00	33	Chesapeake Bay AM Activities	6038	Olivia Devereux -Development of an Adaptive Mgmt Decision Support Tool for Increasing Effectiveness of BMP Implementation in the Chesapeake Bay Watershed	34	Climate Change Adaption-Uncertainty, Policy & Legal Considerations	6088	G. McCurry -Estimated Increases in Municipal Water Demands in Colorado due to Climate Change	35	Trends in AM - Multiple case Study Evaluations	6052	J. S. Thomas -Operational Framework for Adaptive Management at Federal Facilities	36	Tools Supporting AM	6203	K. O'Neil -Scenario Planning with Multi-Criteria Decision Analysis Linked to a Dynamic Systems Simulation – Linking Science, Policy, and Decision Making in an Adaptive Framework
				6015	Sarah Weammert -Enhancing Management, Coordination and Accountability of BMP Definitions and Effectiveness Estimates Utilizing an Adaptive Management Approach			6076	D. Rodrigo -Planning for Reliable Water Supply in the Face of Uncertainty and Climate Change			6034	N. Engle -Adaptive capacity and adaptive management in community water systems			6100	Z. Song-James -Will Simulation of Percolation Lead to Underestimation of Flood Risk?
				6069	T. Simpson -Adaptively Integrating Science into Policy in the Chesapeake Bay Watershed: Lessons Learned							6013	C. Allan -Lessons from adaptive management practice			6113	B. Zaman -Fusion of remotely sensed data for Landcover classification using Multiclass relevance vector machine
				6111	P. Hearn -Web-based Tools for Improved Management and Restoration of the Chesapeake By Watershed											6096	D. Liebowitz -Exploring Alternative Controls of Algal Proliferation in Florida's Spring System
	12:00-1:30	BREAK															
	1:30 - 3:00	37	Real-time Monitoring Strategies Supporting AM in Utah	6065	R. Hanson -Adaptive Management in Real-time: Utah's Experience	38	ABA Panel- Adaptive Management Enters Uncharted Waters: Recent Developments in the Law of Water Quality Trading, Offsets and TMDLs- Wendy B. Crowther		Jeremy Jungreis	39	Groundwater Monitoring Strategies Supporting AM	6123	Robert Schreiber -Towards Pilot-Testing of the National Groundwater Monitoring Network	40	Stream Research Supporting AM	6048	P. Edwards -Applying monitoring results to develop recommendations for constructing forest road stream crossings to control soil losses
				6067	M. Mckee -Use of Unmanned Autonomous Vehicles for Inexpensive Remote Sensing for Improved Real-Time Operation of Large Irrigation Systems							6125	T. Parker -Piloting for a National Ground Water Monitoring Network			5793	A. Nandi -Quantitative Stream Profile Analysis for Red River and Arkansas River
				6058	A. Torres -Bayesian Analysis of Sensors in an Automated Irrigation Canal Using Relevance Vector Machines							6126	T. Patton -Statewide Monitoring: fitting into a national ground-water monitoring network				
				6062	A. Ticlavilca -Forecasting Irrigation Canal Demand Using Multivariate Sparse Bayesian Learning Approach												
	3:00 - 3:30	BREAK															
	3:30 - 5:00	41	Closing Panel Session: Next Steps to Overcoming the Challenges														
	5:30 - 6:00	END OF CONFERENCE															