

Maryland Ground Water Symposium
Wednesday, September 30, 2009
Martins West, 6817 Dogwood Road, Baltimore, Maryland 21244

Morning Plenary: *Embassy Room*

9:00 - 9:10	Welcome and Opening Remarks
9:10 - 9:35	Keynote Address The Honorable Barbara Frush, Delegate, Maryland General Assembly
9:35 - 10:00	The County Perspective: Balancing Planned Growth with Limited Water Resources and Wastewater Capacities Edwin Singer, Chair, Maryland Association of Environmental Health Directors
10:00 – 10:25	<u>Integrating Groundwater Science into Groundwater Policy</u> <u>Allen M. Shapiro, U.S. Geological Survey</u>

Break
10:25 – 10:45

Morning Concurrent Sessions

<i>Regency Room</i>	<i>Maryland Room</i>	<i>Wayne Room</i>	<i>Embassy Room</i>
The Basics	Managing Waste	Drinking Water	Managing Stormwater
Morning Session One (10:45 – 11:15)			
Conducting Inspections Chris Carski Water Supply Program Maryland Department of Environment	<u>Coal Combustion Byproducts: Potential for Groundwater and Other Environmental Impact, and MDE's Recent Actions to Address Them</u> <u>Edward M. Dexter, P.G.</u> Solid Waste Program Maryland Department of Environment	Trace Contaminants in Water Simin Rezai, PhD Wastewater Permits Program Maryland Department of Environment	<u>New Jersey's Management Approaches to Groundwater and Surface Water Protection</u> <u>John Gray</u> New Jersey Department of Environmental Protection
Morning Session Two (11:20 – 11:50)			
<u>An Overview of Ground Water In Maryland</u> <u>Andrew Staley</u> Maryland Geological Survey Maryland Department of Natural Resources	<u>Groundwater Monitoring at Landfill Sites</u> <u>Stephen A. Roberts, Jason L. Baer</u> Maryland Environmental Service	<u>Securing Safe Water From the Surficial Aquifer: A Model of Citizen Involvement in Water Resources</u> <u>Gayl Fowler, President</u> SAIF Water Wells, Inc	<u>Exploring the Storage and Transport of Roadway Salt to Surface Waters in a Second-Order Suburban Watershed</u> <u>Robert Flora, Towson University</u> <u>Ed Landa, U.S. Geological Survey</u>

Lunch 11:50 – 12:50: *Terrace and Camellia Rooms*

12:50 – 1:10	<u>Maryland WARN</u> <u>Stephen Gerwin, Bureau Chief, Howard County Department of Public Works, Bureau of Utilities</u>
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Afternoon Concurrent Sessions

Regency Room	Maryland Room	Wayne Room	Embassy Room
Fractured Rock Water Supply	Managing Waste	Drinking Water	Managing Stormwater
Afternoon Session One (1:15 – 1:45)			
<u>A Simulation of Summertime Aquifer Levels and Stream Baseflow in the Upper Monocacy River Basin</u> <u>Cherie L. Schultz</u> <u>Interstate Commission on the Potomac River Basin</u>	<u>Emerging Technologies for Groundwater Characterization and Remediation for Petroleum Hydrocarbons</u> <u>Forest Arnold</u> <u>Oil Control Program</u> <u>Maryland Department of Environment</u>	Drinking water regulations for public water systems supplied by ground water sources under the direct influence of surface water (GWUDI) <u>Barbara Weber</u> Water Supply Program Maryland Department of Environment	<u>Stormwater Management and Discharge Prevention</u> <u>Susan Allen</u> <u>Montgomery County DEP</u>
			Wastewater/OSDS
Afternoon Session Two (1:50 – 2:20)			
Integrating Groundwater Management Into Land Use Regulations Town of Hampstead Groundwater Conservation Zoning District <u>Ken Decker, Town Manager</u> Town of Hampstead, Maryland	<u>In Situ and Ex Situ Bioremediation Technologies for Groundwater Contaminated with Chlorinated Solvents</u> <u>Michelle Lohrah</u> <u>U.S. Geological Survey</u>	<u>The Master Well Owner Network: Educating Private Well Owners Throughout Maryland</u> <u>Stephanie S. Clemens, Coordinator</u> <u>Master Well Owners Network</u> <u>University of Maryland</u>	<u>Overview of Advance Treatment Technologies for Onsite Sewage Disposal Systems</u> <u>Kevin Koepenick, R.S.</u> <u>Baltimore County DEPRM</u>
Break 2:20 – 2:35			
Fractured Rock Water Supply	Coastal Plain Water Supply	Drinking Water	Onsite Sewage Disposal
Afternoon Session Three (2:35 – 3:05)			
Water Resources in the Fractured Rock Area of Maryland <u>Brandon J. Fleming</u> US Geological Survey	<u>Coastal Plain Aquifer Study</u> <u>Jeff Raffensperger</u> <u>US Geological Survey</u>	Ground Water Rule Implementation <u>Travis Sterner</u> Water Supply Program Maryland Department of Environment	Performance Evaluation of Advanced Onsite Wastewater Treatment Options <u>Tamara Vanivort</u> West Virginia Water Research Institute
Afternoon Session Four (3:10 – 3:40)			
Hydrologic Impacts of Groundwater Withdrawals on Headwaters Streams <u>Patrick A. Hammond</u> Water Supply Program Maryland Department of Environment	<u>A Pleistocene Erosional Channel Islet, Southern Baltimore, MD</u> <u>Chau Nguyen</u> <u>Land Management Administration</u> <u>Maryland Department of Environment</u>	Cross-Connection Control <u>Barry Walter</u> HydroDesigns, Inc	<u>Update on Onsite Sewage Disposal System Nitrogen Removal</u> <u>Jay Prager</u> <u>Wastewater Permits Program</u> <u>Maryland Department of Environment</u>
Afternoon Session Five (3:45 – 4:15)			
Water Embodied in Biofuel <u>Simin Rezai, PhD</u> Wastewater Permits Program Maryland Department of Environment	Simulation of Groundwater Flow and Optimization of Withdrawals from Aquifers at the Naval Air Station Patuxent River, St. Mary's County, MD <u>Cheryl A. Dieter</u> USGS	<u>Exploring the Brine Envelope</u> <u>Larry Zinser</u> <u>Master Water Conditioning Corporation</u>	TBD