

Wednesday 4/22	Session C - Conference Room: Allegheny			
	WATER TECHNOLOGIES			
	Organization	PI	Title	Moderator
7:00 AM	REGISTRATION AND BREAKFAST			
7:30 AM				
	Water Management I			
8:00 AM	National Energy Technology Laboratory	Erik Shuster	Cumulative Benefits of Water Management Program	Barbara Carney
8:30 AM	National Energy Technology Laboratory	Timothy Skone	AWARE-US	
9:00 AM	Sandia National Laboratories	Vincent Tidwell	Water Atlas Extension	
9:30 AM	National Energy Technology Laboratory	Eric Grol	Plant-level Analysis	
10:00 AM	BREAK			
	Water Management II			
10:30 AM	Carnegie Mellon University	Ed Rubin	IECM Cooling Retrofits	Jessica Mullen
11:00 AM	Stanford University	Meagan Mauter	Trace Element Sampling and Partitioning Modeling to Estimate Wastewater Composition and Treatment Efficacy at Coal Generators	
11:30 AM	National Energy Technology Laboratory	Briggs White	Facilitated Discussion	
NOON	LUNCH			
12:30 PM				
	Wastewater Treatment and Recovery I			
1:00 PM	Gas Technology Institute	Scott Trybula	Co-Generation Wastewater Treatment at Coal-Fired Energy Plants	Omer Bakshi
1:30 PM	Montrose Water and Sustainability Services, Inc.	Jinjian Wu	Flue-Gas Desulfurization Effluent Management Using an Innovative Low-Energy Biosorption Treatment System to Remove Key Contaminants	
2:00 PM	Lehigh University	Alparslan Oztekin	Coal-Fired Power Plant Configuration and Operation Impact on Plant Effluent Contaminants and Conditions	
2:30 PM	Electric Power Research Institute, Inc.	Jeffery Preece	Demonstrations of Holistic, Lower Cost/Energy Effluent Water Management Approaches for Coal-Fired Energy Plant	
3:00 PM	BREAK			
	Wastewater Treatment and Recovery III			
3:30 PM	National Energy Technology Laboratory	Nicholas Siefert	Overview of NETL Energy-Water Experimental R&D	Maria Reidpath
4:00 PM	University of Illinois at Urbana-Champaign	Nandakishore Rajagopalan	Energy Efficient Waste Heat Coupled Forward Osmosis for Effluent Water Management at Coal-Fired Power Plants	
4:30 PM	SRI International	Indira Jayaweera	Development of a High Efficient Membrane-Based Wastewater Management System for Thermal Power Plants	

THURSDAY 4/23	Session C - Conference Room: Allegheny			
	WATER TECHNOLOGIES			
	Organization	PI	Title	Moderator
7:00 AM	REGISTRATION AND BREAKFAST			
7:30 AM				
	Wastewater Treatment			
8:00 AM	University of North Dakota Energy and Environmental Research Center	John Hamling	Developing and Validating Pressure Management and Plume Control Strategies in the Williston Basin Through a Brine Extraction and Storage Test (BEST) - Phase II	Barbara Carney
8:30 AM	National Energy Technology Laboratory	Nicholas Siefert	NETL Pilot-Testing of Concentrating Effluent Streams	
9:00 AM	West Virginia State University	Sanju Sanjaya	Dev. Cost-Effective Biological Removal Technology for Selenium & Nitrate from Flue Gas Desulfurization Wastewater from Existing Power Generating Facility	
9:30 AM	University of California - Los Angeles	David Jassby	Applying Anodic Stripping Voltammetry to Complex Wastewater Streams for Rapid Metal Detection	Robie Lewis
10:00 AM	BREAK			
	CERC Update and Condensers			
10:30 AM	Lawrence Berkeley National Laboratory	Ashok Gadgil	U.S. - China Clean Energy Research Center - Water and Energy Technologies	
11:00 AM	Advanced Cooling Technologies, Inc.	Richard Bonner	A Novel Steam Condenser with Loop Thermosyphons and Film-Forming Agents for Improved Heat Transfer Efficiency and Durability	
11:30 AM				
NOON	LUNCH			
	Condensers			
1:00 PM	Virginia Polytechnic Institute and State University	Ranga Pitchumani	Novel Patterned Surfaces for Improved Condenser Performance in Power Plants	Barbara Carney
1:30 PM	Massachusetts Institute of Technology	Evelyn Wang	Capillary-Driven Condensation for Heat Transfer Enhancement in Steam Power Plants	
2:00 PM	Nelumbo Inc.	Lance Brockway	Enhancing Steam-Side Heat Transfer via Microdroplet Ejection using Inorganic Coatings	
2:30 PM	Interphase Materials, Inc.	Noah Snyder	Application of Heat Transfer Enhancement (HTE) System for Improved Efficiency of Power Plant Condensers	
3:00 PM	BREAK			
3:30 PM				
4:00 PM				
4:30 PM				

POSTER SESSION

Program	Number	Organization	PI	Title	Agreement #
WATER TECHNOLOGIES	WAT-1	Gas Technology Institute	Aleksandr Kozlov	Enhanced Cooling Tower Technology for Power Plant Efficiency Increase and Operating Flexibility	FE0031833
	WAT-2	Infinite Cooling, Inc.	Karim Khalil	Water Recovery from Cooling Tower Plumes	FE0031828
	WAT-3	Oak Ridge National Laboratory	Kashif Nawaz	Enhanced Steam Condenser for Power Generation Applications	TCF-19-17770
	WAT-4	University of North Dakota Energy and Environmental Research Center	Christopher Martin	Wastewater Recycling Using a Hygroscopic Cooling System	FE0031810
	WAT-5	West Virginia University Research Corporation	Golnoosh Khajouei (Student Researcher)	Produced Water and Waste Heat-Aided Blowdown Water Treatment: Using Chemical and Energy Synergisms for Value Creation	FE0031740