

**NOWRA Annual Conference  
Memphis, TN, April 7 - 10, 2008**

**SUNDAY April 6, 2008**

10:00 AM	5:00 PM	NOWRA Board Meeting Marriott Hotel
9:00 AM	4:00 PM	NOWRA Committee and Organization Meetings, Marriott Hotel

**MONDAY April 7, 2008**

Start	Finish	
7:30 AM	6:00 PM	General Conference Registration, Marriott Hotel
9:00 AM	4:00 PM	NOWRA Committee & Organization Meetings, Marriott Hotel
9:00 AM	6:00 PM	Registration and Set-Up for Exhibitors, Convention Center

**Nitrogen Symposium Agenda**

7:30 AM	9:00 AM	Registration Open and Continental Breakfast Available in Registration Area, Marriott Hotel
8:30 AM	8:45 AM	Background and Goals for Event, Richard Otis
8:45 AM	9:45 AM	Processes: Environmental Chemistry and Cases, Stewart Oakley
9:45 AM	10:30 AM	Watershed Nitrogen Export and Sinks, Art Gold
10:30 AM	11:00 AM	Break with Refreshments Provided
11:00 AM	11:45 AM	Users Guide for Watershed Scale Modeling of Decentralized Wastewater Systems, Mengistu Geza
11:45 AM	12:30 PM	Cases, Risk and Discussion, Richard Otis, Stewart Oakley, Art Gold
12:30 PM	1:30 PM	Lunch (on your own)
1:30 PM	1:50 PM	Trickling Filters and The Nitrogen Cycle, William Fenner
1:50 PM	2:10 PM	Nitrogen Reduction in Recirculating Biofilter Treatment Concepts, David Venhuizen
2:10 PM	2:30 PM	Cost Effective Cluster Treatment & Dispersal System to Achieve Total Nitrogen of <10mg/l in Malibu, CA, Pio Lombardo
2:30 PM	2:50 PM	Evaluation of Passive Nitrogen Removal Systems, Daniel Smith
2:50 PM	3:10 PM	I have a Nitrogen Standard, so which Technology Should I Use?, Shane Keaney
3:10 PM	3:30 PM	Break with Refreshments Provided
3:30 PM	3:50 PM	Nitrogen and Onsite Systems in Central Florida, Elke Ursin
3:50 PM	4:10 PM	A Hollow Fiber MBR for Nitrogen Reduction, Daniel Smith
4:10 PM	5:00 PM	Wrap Up and Discussion, All

**TUESDAY April 8, 2008**

**I - Morning Plenary Sessions - Convention Center - Ballrooms C, D, E**

Start	Finish	
7:00 AM	9:00 AM	Exhibitor Set-up
7:00 AM	9:00 AM	Registration Open and Continental Breakfast Available in Registration Area
8:00 AM	9:00 AM	NOWRA's President's Message & Awards
9:00 AM	9:45 AM	You Can Live Without Oil, but You Cannot Live Without Water, Brian A Waldron, University of Memphis' Ground Water Institute
9:45 AM	10:30 AM	Watershed Sinks To Assess the Risks of Offsite Nitrogen Contamination from Onsite Wastewater Systems, Art Gold, University of Rhode Island
10:30 AM	12:30 PM	Exhibition Hall Opens - Free Time - Poster Viewing in Exhibition Hall
12:30 PM	1:30 PM	Lunch provided in Exhibition Hall

**Afternoon Sessions**

Track Topic		NOWRA Decentralized Systems Overview: A to Z	Education & Training	Cluster System Design & Application	Performance & System Evaluation
Track Number		II	III	IV	V
Room		Ballroom C	Ballroom D	Ballroom E	201-202
Start	Finish				
1:30 PM	2:15 PM	<i>The Evolution of Decentralized Wastewater Treatment Philosophy</i> , Bruce Lesikar	Examining Onsite Management in Lee County, FL, Bob Himschoot	Cluster System Application: Case Study, Roger Lacasse	Drip Dispersal in Imported Soils, Randy Miles
2:15 PM	3:00 PM	<i>Wastewater Chemistry, Biology &amp; Characteristics</i> , Jan Hygnstrom	Analyzing Wastewater Treatment Systems, Bruce Lesikar	The Need-To-Knows of Cluster System Design, Larry Stephens & Ted Loudon	Characterization of pH Variations in Septic Systems, Clement Solomon
3:00 PM	3:45 PM	<i>Soils and Site Evaluation Overview</i> , Randy Miles	Guidance for Establishing Successful Responsible Management Entities, Cynthia Mitchell	Bluff, Utah - Distributed Wastewater Management Concepts Prove Superior, David Venhuizen	Microbial Fate and Transport in a Seasonally Saturated Soil, Chris Stall
3:45 PM	4:30 PM		Dealing with Difficult People...How to Survive Life in the CAVE, LuAnn Watson		Field Performance Assessment of Soils/Systems, Mary Clark
4:30 PM	6:30 PM	<b><i>Opening Reception in Exposition Hall with Hor'deuvres and Refreshments Provided</i></b>			
5:00 PM	7:00 PM			The 3 R'S: Regulators, RMEs, and Getting It Right, Cynthia Mitchell ( <i>registration at 4:45, refreshments at 7</i> )	

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**WEDNESDAY April 9, 2008**

**Morning Sessions**

Track Topic		NOWRA Decentralized Systems Overview: A to Z	Standards, Regulations & Policy	WERF Projects Update AM	Treatment Process Evaluations
Track Number		VII	VIII	IX	X
Room		Ballroom C	Ballroom D	Ballroom E	201-202
Start	Finish				
7:00 AM	9:00 AM	<b>Registration Available and Continental Breakfast Available in Exhibition Hall - Contractor Open House All Day</b>			
8:00 AM	8:45 AM	<i>Water Movement in Soil</i> , David Lindbo	Creating a Public-Private Partnership, William Freed	NDWRCDP Overview & the Role of WERF in the Decentralized Field, Mary Strawn & Bob Rubin	Treating Septage with Aerobic Micro Organism, John Campbell
8:45 AM	9:30 AM	<i>Application of Soil Surveys to Decentralized Wastewater Systems</i> , David Lindbo	Federal Policies for Decentralized Solutions, Valerie Nelson	Analysis of Existing Community-Sized Decentralized Systems: Findings & Next Steps, Victor D'Amato	A Protocol for Evaluating the Effects of the Use of Water Softeners on Septic System Function, Nancy Deal
9:30 AM	10:30 AM	<b>Exhibition Hall Free Time with Beverages Provided</b>			
10:30 AM	11:15 AM	<i>Septic Tank Overview: Function, Design, Construction, Inspection and Troubleshooting</i> , John Buchanan	On-site systems in Tennessee, Robert O'Dette	Regional Differences in Raw Wastewater and Primary Treated Effluent from Single Residential Sources, Mia Tucholke	Effluent Quality After Geotextile Filters Using Timed Pressure and Demand Dosed Distribution, Steve Dix
11:15 AM	12:00 PM		NSF/ANSI Standards Update, Sharon Steiner	Users Guide for Watershed Scale Modeling of Decentralized Wastewater Systems, Mengistu Geza	Biofilm Processes in Decentralized Wastewater Treatment Systems, Isolde Roeske
12:00 PM	1:00 PM	<b>Lunch Available for Purchase in Exhibition Hall</b>			

**Afternoon Sessions**

Track Topic		NOWRA Decentralized Systems Overview: A to Z	Successful Planning & Management	WERF Projects Update PM	Innovative Technologies & Solutions
Track Number		XI	XII	XIII	XIV
1:00 PM	1:45 PM	<i>Aerobic Treatment Unit and Media Filter Overview</i> , Jim Converse	Developing Onsite Wastewater Management Programs, Bruce Douglas	Installation Training Curriculum, Bruce Lesikar	A New and Improved Septic Tank, Kevin Chaffee
1:45 PM	2:30 PM		Innovative Loans Stimulate Septic System Renovation, Terry Hull	Stormwater Benefits of Greenroofs and the Relative Contribution of Plants, Robert Berghage	Flexible SBR Solutions for Small WWTPs, Micro Koppmann
2:30 PM	3:30 PM	<b>Exhibition Hall Free Time with Refreshments Provided (Hall closes at 3:30)</b>			
3:30 PM	4:15 PM	<i>Pumps and Controls for Decentralized Systems</i> , John Buchanan	Development & Deployment of IDNR's Database, Daniel Olson	How Can the Engineering Community Increase the Use of Decentralized Technologies & Mngt? Amy Macrellis	Wastewater Renovation and Hydraulic Performance, David Potts
4:15 PM	5:00 PM			Long Range Planning for Decentralized Wastewater and Stormwater Treatment Research, Valerie Nelson	
6:30 PM	9:00 PM	<b>Reception at Silky O'Sullivan on Beale Street in Memphis - Refreshments and Entertainment Provided</b>			

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**THURSDAY April 10, 2008**

**Morning Sessions**

Track Topic	NOWRA Decentralized Systems Overview: A to Z	Innovative Technologies & Solutions	Innovative Technologies & Solutions	Breakout 5 - Memphis Area Education Tour of Decentralized Systems	
Track Number	XV	XVI	XVI	XVIII	
Room	<i>Ballroom C</i>	<i>Ballroom D</i>	<i>Ballroom E</i>	<i>Meet in Registration Area at 8:00 AM</i>	
Start	Finish				
7:00 AM	9:00 AM	<b>Continental Breakfast Available in Registration Area</b>			
8:30 AM	9:15 AM	<i>Soil Treatment Principals and System Types, Randy Miles</i>	The High Performance Biofiltration Concept - the "Workhorse" Technology, David Venhuizen	<b><i>Tour of Decentralized Systems in Memphis Area</i></b> 1. City of Oakland's Sequencing Batch Reactor 2. Piperton's Decentralized Wastewater Management System: a. Step collection b. Recirculating media filter c. Drip distribution	
9:15 AM	10:00 AM		UBAS- An Innovative, Cost-Effective and Reliable Russian On-site Wastewater Treatment Unit, Yuri Bobylev & Vadim Ladygin		Evolution of Innovative and Alternative Onsite Wastewater System Use in Rhode Island, George Loomis
10:00 AM	10:30 AM	<b>Break in Registration Area with Beverages Provided</b>			
10:30 AM	11:15 PM	<i>Gravity &amp; Pressure Soil Based Distribution Methods, Sara Christopherson</i>	Commercial Onsite Wastewater Treatment Systems Failures and Solutions, David Kalen		Analysis of Synthetic Aerobic Trickling Filter Media, Ted Cotton
11:15 PM	12:00 PM	<i>Operations &amp; Maintenance of Decentralized Systems, Bruce Lesikar</i>	Reuse with Subsurface Drip Irrigation Fields - Issues & Opportunities, David Venhuizen		Pressurized Drainfield Design: Current Method Problems & Potential Remedies, Thomas Kallenbach
12:00 PM	1:30 PM	<b>Lunch Available for Purchase in Registration Area</b>			
<b>XVII - Afternoon Plenary Sessions - Convention Center - Ballrooms C, D, E</b>					
1:30 PM	2:00 PM	Continued Challenges Facing Our Industry as Decentralized Systems Become a Long Term Solution , Tom Groves, NOWRA Vice President/President Elect			
2:00 PM	2:30 PM	NOWRA Annual Business Meeting			
2:30 PM	3:15 PM	Institutional Challenges and Opportunities: Decentralized and Integrated Water Resource Management, Valerie Nelson			
3:15 PM	4:00 PM	Dimensions in Decentralization: From Innovative Technologies to Distributed Water Resource Mngt, Craig Lindell			