



# CONFERENCE AGENDA



## Sunday, October 21, 2018

Start	Finish	
1:00 PM	5:00 PM	NOWRA Board of Directors Meeting, <i>Edina</i>
12:00 PM	5:30 PM	Registration Open, <i>Grand Ballroom Foyer</i>
1:00 PM	6:00 PM	Exhibitor Move-In, <i>Grand Ballroom</i>
4:15 PM	5:00 PM	Volunteer Coordinator Training, <i>Atrium 2</i>
6:00 PM	7:30 PM	Welcome Reception, <i>Garden Court</i>

## Monday, October 22, 2018

Start	Finish	
7:00 AM	5:00 PM	Registration Open, Morning Refreshments Served, <i>Grand Ballroom Foyer</i>
7:30 AM	11:00 AM	Exhibitor Move-In (cont'd), <i>Grand Ballroom</i>
		Opening General Session, <i>Veranda Ballroom</i>
8:00 AM	8:10 AM	Conference Welcome, <i>Jim Bell, NOWRA; Gene Basset, NAWT; Andy Winkler, MOWA, Mary Clark, SORA</i>
8:10 AM	9:00 AM	Minnesota's Legacy - Water Resources, <i>Minnesota Governor or MPCA Commissioner</i>
9:00 AM	9:50 AM	Financing Decentralized Solutions in Minnesota - Creative and Successful Financial Assistance, <i>Jeff Freeman, Bill Dunn, Aaron Jensen, Dwight Wilcox and Eric VanDyken</i>
9:50 AM	10:10 AM	Break, <i>Grand Ballroom Foyer</i>
10:10 AM	11:00 AM	Update on EPA and the Decentralized Wastewater Program, <i>EPA Staff</i>
11:00 AM	11:50 AM	New Developments in Distributed Infrastructure, <i>Dr. Lynn Broaddus, The Broadview Collaborative</i>
11:50 AM	7:00 PM	Expo Hall Opens - <i>Grand Ballroom</i>
11:50 AM	1:30 PM	Lunch Provided in Expo Hall, NOWRA National Backhoe Roe-D-Hoe® Open, <i>Grand Ballroom</i>
12:00 PM	1:30 PM	State Affiliates Committee Meeting, <i>Atrium 1 (lunch provided)</i>
12:00 PM	3:00 PM	SORA Business Meeting - <i>Atrium 7 (lunch provided)</i>

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# CONFERENCE AGENDA



## Monday Afternoon, October 22, 2018 -- Concurrent Sessions

Track Topic		Technical	Nitrogen	Funding and Decentralized	Management	State Leaders	NAWT O&M Training
Track Number		I	II	III	IV	V	VI
Room		Veranda 1 & 2	Veranda 3 & 4	Veranda 5 & 6	Veranda 7 & 8	Atrium 1	Bloomington
Start	Finish						
1:30 PM	2:30 PM	Precast Concrete Decentralized Wastewater Treatment Cluster and Package Systems, Claude Goguen	Review of Total Nitrogen Regulations in Eight States; and Case Studies of Advanced Nitrogen Wastewater Treatment Performance in Minnesota, Louis Sigtermans and Peter Daniels	Local Programs – Matching Funding with Local Needs; Dollars, Culture, and Circumstance, Aaron Jensen, Eric VanDyken, Stephanie Holt, Dwight Wilcox	How Sustainable are OLDER Onsite Wastewater Systems?, Jake Garrett	Panel: Lessons Learned to Make Associations Run Better	<b>O&amp;M I - Professional Systems Technician Training--</b> Introduction to Systems Management
2:30 PM	3:00 PM	Effect of Distribution on Fecal Coliform in Combined Treatment & Dispersal Systems, Dick Bachelder	An Update on Onsite Sewage Nitrogen Reduction Projects in Florida, Debby Tipton	Small Community Spotlight: Oronoco Wastewater Treatment and Management, Sheila Craig, Peter Miller, and Corey Hower	Ecological Sanitation - Moving Forward through a Review of Land Application of Septage, Ben Howard	Panel: Community Involvement Projects to Build Relationships (Part 1)	
3:00 PM	3:30 PM	<b>Break, Grand Ballroom</b>					
3:30 PM	4:00 PM	A Three-State Study to Measure the Impact of Passive Venting on Increasing Airflow, Kevin Sherman	Unique Process Control Strategy for Optimum Nitrogen Removal in Small Flow Wastewater Treatment Plants, Gary Lucas	Bridging the Gap from Decentralized to Centralized Treatment for a Small Community, Joe Witlox	How Detailed Time Series and Liquid Level Data can Indicate Problems and Inform Better Solutions, Kelly Galloway	Panel: Community Involvement Projects to Build Relationships (Part 2)	<b>O&amp;M I - Professional Systems Technician Training--</b> Developing your files and communication
4:00 PM	5:00 PM	Microbially Contaminated Groundwater: Results and Risk, Anita Anderson	Nutrient Treatment by Three Large On-site Wastewater Systems in the North Carolina, Charles Humphrey	Case Study: The Largest Cluster System in Minnesota - the City of Afton, Peter Miller		Panel: Partnerships to Help State Associations Succeed; Roundtable Discussion	
5:00 PM	6:30 PM	<b>Technical Practices Committee Meeting, Edina</b>					
5:00 PM	7:00 PM	<b>Exhibitor Appreciation Reception, NOWRA National Backhoe Roe-D-Hoe® Open, Grand Ballroom</b>					
7:30 PM	9:30 PM	<b>Off Site Reception at US Bank Stadium with Tours (home of last years SuperBow!!)</b>					



# CONFERENCE AGENDA



**Tuesday October 23, 2018**

Start	Finish					
7:00 AM	1:30 PM	<b>Expo Hall Open, Grand Ballroom</b>				
7:00 AM	8:00 PM	<b>Continental Breakfast Provided, NOWRA National Backhoe Roe-D-Hoe® Competition, Grand Ballroom</b>				
8:00 AM	11:30 AM	<b>Registration Open, Grand Ballroom Foyer</b>				
Track Topic	Technical 1	Technical 2	Policy & Regulations	Minnesota Highlights & Panel Discussions	Reuse	NAWT O&M Training
Track Number	<b>VI</b>		<b>VII</b>	<b>VIII</b>	<b>IX</b>	<b>X</b>
Room	<b>Veranda 1 &amp; 2</b>	<b>Veranda 3 &amp; 4</b>	<b>Veranda 5 &amp; 6</b>	<b>Veranda 7 &amp; 8</b>	<b>Edina</b>	<b>Bloomington</b>
Start	Finish					
8:00 AM	8:30 AM	Hydraulics on Subsurface Drip Irrigation during Non-Steady State Conditions, John Buchanan	On-site Wastewater Treatment and Water Recycling at a Music Festival Venue, Ben Kele	Providing Oversight of Local Health Departments at a State Level, Dale Ladouceur	Minnesota Pollution Control Agency Septic System Program Update, Jim Ziegler	<b>O&amp;M I - Professional Systems Technician Training-- Care of Conventional Systems</b>
8:30 AM	9:00 AM	Laboratory Test of the Effect of Food Waste Disposals in Septic Tanks on Effluent Water Quality and Solids Accumulation, Bo Hu			Advancing Safe and Sustainable Water Reuse in Minnesota, Anita Anderson	
9:00 AM	9:30 AM	Real-Time Random Testing: A More Precise Way to Analyze Efficacy of Treatment, Marie-Christine Belanger	Activated Sludge Sewage Treatment Plant Technology and Operation, Brenda Martinez	A Framework for the Evolution of Decentralized Wastewater Management in Michigan, Dave Cotton	Panel Discussion: Troubleshooting Frozen Septic Systems, Eric Larson, and Larry Stephens	
9:30 AM	10:00 AM				Reduce, Reuse, Recycle, Rethink - Using Recycled Water From Onsite Systems, Joelle Wirth	
9:30 AM	10:30 AM	<b>Break, NOWRA National Backhoe Roe-D-Hoe® Competition, Grand Ballroom</b>				
10:30 AM	11:00 AM	Impacts of Water Softening on Chloride in Minnesota Waters, Alycia Overbo	Onsite Wastewater Treatment System Malfunction Analysis, Prevention, and Repair, David Lentz	Journey of a Successful Rule, A Path Forward After 16 Years, Edwin Swanson	Panel Discussion: Maintenance Considerations with Frozen Systems, Brian Koski, Bob McKinney and Cindy Tiemann	<b>O&amp;M I - Professional Systems Technician Training-- Care of Pump Systems</b>
11:00 AM	11:30 AM			Building Partnerships to Improve Systems and Regulations, Christl Tate		
11:30 AM	1:00 PM	<b>Lunch in Expo, NOWRA National Backhoe Roe-D-Hoe® Competition FINALS!, Grand Ballroom</b>				
11:30 AM	1:00 PM	<b>NOWRA Education Committee and Online Training Taskforce Meeting, Vista 1 &amp; 2 (22nd Floor)</b>				
1:30 PM	3:30 PM	<b>NOWRA BBP Partners and Lobbying Board of Governors (joint meeting), Vista 1 &amp; 2 (22nd Floor)</b>				
1:40 PM	6:00 PM	<b>Exhibitor Move-Out, Grand Ballroom</b>				



# CONFERENCE AGENDA



## Tuesday Afternoon, October 23, 2018

Track Topic		Technical	Community and Cluster Systems	Policy & Regulations	Minnesota Highlights & Panel Discussions	Education	NAWT O&M Training	
Track Number		VI	VII	VIII	IV	V	VI	
Room		Veranda 1 & 2		Veranda 5 & 6		Veranda 7 & 8	Edina	Bloomington
Start	Finish							
1:00 PM	2:00 PM	Engineering Passive, Horizontal Movement of Treated Effluent for Dispersal Beneath Sand-Based Systems, Donald Prince	Sizing and Design of Gravity Grease Interceptors Connected to Decentralized Treatment Systems, Claude Goguen	U.S. EPA's Decentralized Wastewater Program Update, Catherine Allen	Panel Discussion: Point of Sale Inspections, Brian Humpal, Tim Haeg and Claude Goguen	Minnesota's Septic System Professional Certification Program, Nick Haig	O&M I - Professional Systems Technician Training-- Managing and Recognizing Wastewater Flows	
2:00 PM	2:30 PM	Performance of a Self-Contained & Recirculating Evapotranspiration Channel, Ben Kele	UN Embraces Decentralized System to Fulfill Emergency Sanitation Need, Jill Lauren Hass	Non-Enforcement Is a Dirty Word, Joseph Soulia	Panel Discussion: Installation Considerations around Lakes and Small Lots, Brian Brogard, Dean Flygare, and Dwayne Jones	Soils Continuing Education: Region-Focused Education, Dan Wheeler and Brandon Montgomery		
2:30 PM	3:00 PM					Students Who Have Learned From the (Whole) Real World, Doug Nelson		
3:00 PM	3:30 PM	Break, Grand Ballroom Lobby						
3:30 PM	4:00 PM	Basic Electrical Theory and Troubleshooting as It Relates to Floats and Onsite Septic Controls, Jim Lockrem	The Design, Construction and Ongoing Startup of The Largest Decentralized System in Maryland, Mark Mazochette	Barriers to Using Decentralized Wastewater Community Solutions: 2007 to 2018, Mary Clark	Panel Discussion: Design Considerations around Lakes and Small Lots, Wayne Johnson, Stacey Fesser, Dick Bachelder and Tom Fritts	EPA's On-line Learning Module: Financing Decentralized Wastewater Systems, Gaida Mahgoub	NAWT - Professional How To Session	
4:00 PM	4:30 PM	The Advantages of Using Effluent Sewer Collection Systems, Larry Stephens	An Iowa Community System and a New Mexico ET System, Dennis Hallahan	Case Study in Effective State and Local Regulation On Septic System Compliance, Matt Summers and Ann Beatty		Changing a Culture Through SepticSmart Outreach, Kristine Rendon		
4:30 PM	5:00 PM					Septic System Preparedness, Christl Tate		
5:30 PM	6:30 PM	NOWRA Annual Business Meeting & Reception, Plaza 1						
6:30 PM	8:30 PM	SORA Reception (invitation only), TBD						

## Wednesday October 24, 2018

8:00 AM	4:00 PM	'Field Trip 1 - University of Minnesota Keys to Successful Design
8:00 AM	3:10 PM	Field Trip 2 - Large Onsite Systems/Concrete Tank Manufacturing Tour
8:00 AM	2:00 PM	Field Trip 3 - Reuse Tour
8:30 AM	10:00 AM	EPA Listening Session - Growing the Decentralized Wastewater Workforce - Technical Professionals (Contractors, Service Providers , etc.) Atrium 4
10:30 AM	12:00 PM	EPA Listening Session on Growing the Decentralized Wastewater Workforce, cont'd - Degreed Professionals (Engineers, Soil Scientists, etc.) Atrium 4

## Conference Concludes