



**Onsite Wastewater Mega-Conference**  
 2024 Spokane, WA  
 Celebrating Tomorrow's Environment  
 Clean Water for the Future



National Onsite Wastewater Recycling Association



National Association of Wastewater Technicians



State Onsite Regulators Association



Oregon Onsite Wastewater Association



Washington On-site Sewage Association

# 2024 CONFERENCE AGENDA

## Saturday, October 19, 2024

Start	Finish	
1:00 PM	6:00 PM	OPTIONAL Scholarship Golf Tournament, TBD
Noon	4:00 PM	Emerging Professionals Strategic Planning Meeting, TBD

## Sunday, October 20, 2024

Start	Finish	
12:00 PM	5:00 PM	NOWRA Board of Directors Meeting, Room 102 AB
11:00 AM	5:30 PM	Registration Open, Registration Desk, Room 103
1:00 PM	5:00 PM	Exhibitor Move-In, Convention Center, Ballroom 100ABC
6:00 PM	8:00 PM	Welcome Reception, Convention Center Room 203/2nd Floor Roofdeck Patio

## Monday Morning, October 21, 2024

7:00 AM	5:00 PM	Registration Open, Registration Desk, Room 103
7:00 AM	8:00 AM	Light Continental Breakfast in Foyer and Exhibit Hall
7:15 AM	8:00 AM	Government Relations Committee, Room 101
7:00 AM	6:00 PM	Exhibit Hall, Ballroom 100ABC
<b>Opening General Session, Ballroom 100B</b>		
8:00 AM	8:10 AM	Welcome to Spokane, Josh Kerns, City Council, City of Spokane, WA (confirmed)
8:10 AM	8:20 AM	Conference Welcome <i>President, WOSSA; President O2WA; President, NAWT; President, SORA; and Allison Blodig, President, NOWRA</i>
8:20 AM	9:45 AM	<i>Creating Our Success in Tomorrow's Clean Water Environment, Brian Harding, Service Industry Success</i>
9:45 AM	10:15 AM	Break in Foyer and Ballroom 100A & C
10:15 AM	10:40 AM	US EPA Update - Raffael Stein, Office of Wastewater Management (confirmed)
10:40 AM	11:00 AM	USDA Update - Michele Brooks, Assistant Administrator (confirmed)
11:00 AM	11:30 AM	Lobbying Efforts on Behalf of Onsite and Decentralized Wastewater, Tim Perrin, Polsinelli, LLC
11:30 AM	11:45 AM	NOWRA Announcements and Setting the Stage, Allison Blodig, NOWRA President

# 2024 MEGA-CONFERENCE AGENDA

Monday Afternoon, October 21, 2024

12:00 PM	1:30 PM	Lunch Provided in Exhibit Hall					
		Poster Presentations in Foyer					
12:00 PM	1:30 PM	Backhoe Roe-D-Hoe, Outside Patio by Registration/Room 103					
12:00 PM	1:30 PM	State Affiliates Committee Meeting, Room 101					
12:00 PM	1:30 PM	Joint Tech Practices/Education Committee Meeting, Room 102B					
Track Topic		Business	Looking Forward	Technical	Policy/Regulations	Nutrients	NAWT1
Track Number		1	2	3	4	5	6
Room		Conference Theater	201	202	206AB	206CD	207
Start	Finish						
1:30 PM	1:55 PM	The 6 Reasons Employees Don't Do What We Need Them To Keynote Speaker -Brian Harding	Decoding AI: Is It Relevant to the Septic Industry? -Credere	Water Reuse: The Future is Now -Bishop/Hennig	Talking To Regulators, the Good, the Bad, and the Nonsensicle -Scott	Relationship Between Groundwater Nitrate Concentration -Dowling	How Water Moves thru Soil - Valentine
2:00 PM	2:25 PM					Mitigation of Septic-System Derived Nutrients -Humphrey	
2:30 PM	2:55 PM	Septic Success: No-Cost Tips to Elevate Your Online Presence -Andreasen	Machine Learning Based Estimates of Wastewater Infrastructure -da Luz	Viral Metagenomic Analysis Workflow -Wu	Washington's On-Site Sewage System Rule Update -Simmons	OPEN	Biomats - Valentine
3:00 PM	3:45 PM	Break in Exhibit Hall, Poster Presentations in Foyer					
		Backhoe Roe-D-Hoe, Outside Patio by Room 103					
3:45 PM	4:10 PM	How to Grow Your Small Business to a Larger Company? -Brian Harding	A Roadmap for Investing in Emerging Professionals -Kaiser/Donnelly	Evaluating Approaches to Decentralized Wastewater Treatment and Management -Maxcy-Brown	MI Dept. of Environment, Great Lakes and Energy: Septic Replacement Loan Program -Mitchell	The State of Source-Separation -McWilliams	Soil as a Treatment Media - Valentine
4:15 PM	4:40 PM			Implications of Sea Level Rise on Onsite Wastewater Systems -Lazur	The Rural Utilities Service's, Water and Environmental Programs (WEP) -Maratita	State of Nitrogen Reduction Regulation and Certification in North America -Manwell	
4:45 PM	6:00 PM	Reception in Exhibit Hall					
		Poster Presentations in Foyer					
6:30 PM	9:30 PM	OPTIONAL: Off-Site Social Event to Steam Plant Brew Pub - Preregistration Required					
		Bus Transportation Provided, Convention Center Breezeway					

# 2024 MEGA-CONFERENCE AGENDA

## Tuesday Morning, October 22, 2024

7:00 AM	8:00 AM	Light Continental Breakfast in Exhibit Hall				
7:00 AM	8:00 AM	Corporate Members Meeting, Room 101				
7:00 AM	1:00 PM	Exhibit Hall Open				
7:00 AM	4:30 PM	Registration Open, Registration Desk, Room 103				
Track Topic		Industry Needs	Soils	Management	NAWT2	Design
Track Number		7	8	9	10	11
Room		201	202	206AB	206CD	207
Start	Finish					
8:00 AM	8:25 AM	EPA's Decentralized Wastewater Program: Overview and Updates -Cantu/Faller/Mezzacapo	A Perspective on Treatment in the Soil vs Treatment in the Tank -Moeller	Mastering Job Costs & Strategic Project Pricing for Long Term Business Success -Stiksma	Having Septage Disposal Problems -Ferrero	Considerations for Septic Systems Serving Vacation Home Rentals -Heger
8:30 AM	8:55 AM					
9:00 AM	9:25 AM	Surfing the Silver Tsunami with Work-4-Water -Saba Zimmer	Riding the Treatment Train: Practical Soil Concepts and Design Strategies -Rudnicki	Management of Decentralized Wastewater Systems in TN -Hines	What Can We Do About Septage Disposal Problems -Birdsong	Design Concepts of Unsaturated Media Filters -Sherman
9:30 AM	9:55 AM	Online Support and Resources for Onsite Wastewater Professionals -Terashima		Stakeholders' Perception Towards Regionalization of Responsible Management -Bakchan		
10:00 AM	10:45 AM	Break in Exhibit Hall, Poster Presentations in Foyer Backhoe Roe-D-Hoe, Outside Patio by Room 103				
10:45 AM	11:10 AM	2022 Clean Watersheds Needs Survey and Decentralized Needs - Schlaudt	Higher Linear Loading Rates Based on Water Table Mounding -Payne	Strengthening Hawaii's On-Site Wastewater Future -Young	Delaware Valley College Research Project -Valentine	Hydraulic Properties of Drip Distribution Tubing -Buchanan
11:15 AM	11:40 AM	EPA's Closing America's Wastewater Access Gap Initiative -Lowenstein/Gopal		Lessons Learned on Replacing OWTS in MO with Grant Funds -Trantham	Field Evaluation of Layered Nitrogen-Reducing Soil Treatment -Cox	Flows and Loads - Wastewater Design Considerations -Kaiser/Donnelly

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**Tuesday Afternoon, October 22, 2024**

11:45 AM	1:00 PM	<b>Lunch Provided in Exhibit Hall, Poster Presentations in Foyer Backhoe Roe-D-Hoe, Outside Patio by Registration/Room 103</b>				
11:45 AM	1:00 PM	<b>Emerging Professionals Committee Meeting, Room 102A</b>				
11:45 AM	1:00 PM	<b>NAWT Septage Task Force, Room 102B</b>				
11:45 AM	2:00 PM	<b>NE20245 Meeting, Room 101 (invitation only)</b>				
1:00 PM	6:00 PM	<b>Exhibitor Move-Out</b>				
Track Topic		Business	Installation	Innovative Solutions	Technology	Emerging Topics
Track Number		<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
Room		<b>201</b>	<b>202</b>	<b>206AB</b>	<b>206CD</b>	<b>207</b>
Start	Finish					
1:00 PM	1:25 PM	The Environmental Entrepreneurship Model -Coleman	Coatings and Sealers for Precast Concrete Tanks -Goguen	Impact of Large-Scale Soil-Based Wastewater Treatment Systems in VT -Douglas	The Future of Onsite -Hallahan	Volcanic Media in Nature Based Treatment Systems -Kele
1:30 PM	1:55 PM			Methodology for Evaluating Sites for Community Wastewater Systems -MacConnell	Septic Tank Installation Strategies for Success - Johnson	
2:00 PM	2:25 PM	Pathways to Permit Innovative Onsite Systems -McWilliams	Overcoming Challenges for CA Wildfire Victims -Fox/Scott	Assessment of Wastewater Needs in the Alabama Black Belt -Chai/Christian	Best Tools for Best Practices -Gillespie	PFAS in Septic Systems and Private Drinking Water Wells -Pradhan
2:30 PM	2:55 PM	The Value of Military Veterans in Wastewater -Nickoli	Environmental and Economic Sustainability Assessment -Hua	Bioreactor Gardens -Mantha/Sturm	Nassau County, NY's Nitrogen Reducing Grant Program - Betts/Cunningham	Onsite Treatment in Climate-Threatened Coastal Regions -Forbis-Stokes
3:00 PM	3:30 PM	<b>Break, Foyer Backhoe Roe-D-Hoe Finals, Outside Patio by Registration/Room 103</b>				
3:30 PM	3:55 PM	NSF Onsite Wastewater Treatment and Reuse Standards -DeLand	Wastewater Pumps: Basics, Sizing, Selection, Rules of Thumb -Rook	Wastewater Recycling & Reuse: Comparison of OR and WA -Sweeney	Pressure Sewer for Septic Tank Abatement Projects -McTavish	Efficiency in Wastewater Treatment -Lowe
4:00 PM	4:25 PM					
5:00 PM	6:30 PM	<b>NOWRA Annual Business Meeting &amp; Reception, Room 102ABC</b>				
6:30 PM	8:30 PM	<b>Offsite SORA Reception (invitation only), Purgatory Whiskey Bar , W. Main Ave.</b>				
<b>Regular Mega-Conference Concludes</b>						

# 2024 MEGA-CONFERENCE AGENDA

**Wednesday, October 23, 2024**

7:00 AM

8:15 AM

**Registration Open, Registration Desk, Room 103  
Light Continental Breakfast**

8:30 AM

4:00 PM

**Optional Field Trip  
Bus transportation departs at 8:30 AM  
Boarding at 8:15 AM  
Box Lunch Provided  
Load Bus at Convention Center Breezeway**

**Conference Concludes - See you next year in Sandusky, Ohio!  
October 19 - 22, 2025**