

| | Sunday, October 22, 2017 | | | | | |
|----------|--------------------------|--|--|--|--|--|
| Start | Finish | | | | | |
| 8:00 AM | 2:00 PM | NOWRA Board of Directors Meeting, TBD | | | | |
| 12:00 PM | 5:30 PM | Registration Open, TBD | | | | |
| 1:00 PM | 6:00 PM | Exhibitor Move-In, Ballroom B-C | | | | |
| 2:30 PM | 4:00 PM | NOWRA Technical Practices Committee, TBD | | | | |
| 4:00 PM | 6:00 PM | NOWRA State Affiliates Meeting, TBD | | | | |
| 6:00 PM | 7:30 PM | Welcome Reception, TBD | | | | |
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| | | Monday, October 23, 2017 | | | | |
| Start | Finish | | | | | |
| 7:00 AM | 5:00 PM | Registration Open, refreshments provided, TBD | | | | |
| 7:30 AM | 11:00 AM | Exhibitor Move-In (cont'd), Ballroom B-C | | | | |
| | | Opening General Session, Ballroom A | | | | |
| 8:00 AM | 8:20 AM | Conference Welcome, Jim Bell, NOWRA; Tom Ferrero, NAWT; Brian Carbaugh, DOWRA; Eddie Harrison, MOWPA; Adam Browning, POWRA | | | | |
| 8:20 AM | 9:00 AM | The State of Delaware's Inland Bays, Chris Bason, Exec. Director, Delaware Center for the Inland Bays | | | | |
| 9:00 AM | 9:40 AM | Development and Application of a Nutrient Attenuation Assessment Methodology for Chesapeake Bay Watershed, Vic D'Amato | | | | |
| 9:40 AM | 10:00 AM | Break, TBD | | | | |
| 10:00 AM | 10:40 AM | Update on EPA and the Decentralized Wastewater Program, Andrew Sawyers, Director, Office of Wastewater | | | | |
| 10:40 AM | 11:20 AM | Role of Onsite Systems in Local Nutrient Control Pollution Strategies, Shawn Garvin, Secretary, DNREC | | | | |
| 11:20 AM | 11:50 AM | Update on NOWRA's Advocacy Efforts, The Hon. Alan Wheat, Polsinelli, LLC | | | | |
| 11:50 AM | 7:00 PM | Expo Hall Opens - Ballroom B-C | | | | |
| 11:50 AM | 1:20 PM | Lunch Provided in Expo Hall, NOWRA National Backhoe Roe-D-Hoe® Open, Ballroom B-C | | | | |



| Monday, | October 23, 2017 | Concurrent ! | Sessions |
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| Track Topic | | Management | Technical - Septic Tanks | Local Track - DOWRA | State Advocacy Workshop | Technical - Piping and Pumps |
|--------------|---------|--|---|--|--|--|
| Track Number | | I | II | III | IV | V |
| Room | | TBD | TBD | TBD | TBD | TBD |
| Start | Finish | | | | | |
| 1:20 PM | 2:10 PM | Case Study: How Does Use in the Home Impact the Need for Septic Tank Pumping, Sara Heger | Septic Tank Venting - New Strategies to Reduce H ₂ S, Claude Goguen | Delaware Licensing Program - Overview | Lobbying Your Legislature Panel Discussion - Getting Started, Developing a Strategy, and Taking Action. Plus a Grassroots Lobbying Software Demo | IPS Weld-On 724 Solvent Cement for Joining PVC or CPVC Chemical Piping, Stephen Gardiner |
| 2:10 PM | 3:00 PM | Whole System Monitoring, Eric Larson | Septic Tank Technology Advancements and Installation Best Practices, Larry Earney | Delaware Licensing Program - Roundtable | | Practical Sizing Guidelines for Sump, Sewage and Grinder Pumps, Deron Oberkorn |
| 3:00 PM | 3:20 PM | Break, NOWRA National Backhoe Roe-D-Hoe® Open, Ballroom B-C | | | | |
| 3:20 PM | 3:45 PM | Managing a Small Community System - A Case Study from Virginia, Anish Jantrania | Biodegradability Analysis of Toilet Paper and Flushed Paper Products under Aerobic Digestion, Sara Heger | Over the Road Vehicles and Safety, Keith Lamey | Funding Onsite Projects in Your State Federal Funding Sources You May Not Know About, Other Funding Options, How State SRFs Work and How You Can Successfully Work With Them, How USDA Funding | Understanding Pumps and Common Pumping Issues, Jeff |
| 3:45 PM | 4:10 PM | | Degradation of Food Waste vs. Sewage in Septic Tanks, Hongjian Lin | | | Hawks |
| 4:10 PM | 5:00 PM | Developing & Implementing a Management System for Higher Level Treatment Systems, Craig Sanders | Improving Septic Tank Performance By Enhancing Anaerobic Digestion, Christopher Jowett | The Bay Restoration Fund and Best Available Technology Program, Joshua Flatley | Works and How You Can Work with Local USDA Offices | Basic Electrical Theory and Troubleshooting as It Relates to Floats and Onsite Septic Controls, Mark McCollum |
| 5:00 PM | 5:30 PM | DOWRA Annual Meeting - TBD | | | | |
| 5:00 PM | 7:00 PM | Exhibitor Appreciation Reception, NOWRA National Backhoe Roe-D-Hoe® Open, Ballroom B-C | | | | |
| 7:00 PM | 9:00 PM | Off Site Event (Optional Ticketed Event), Board busses outside main hotel lobby | | | | |



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| | | Tuesday October 24, 2017 | | | | |
| Start | Finish | | | | | |
| 7:30 AM | 1:30 PM | | | Expo Hall Open, TBD | | |
| 7:30 AM | 8:30 PM | N | OWRA National Backhoe Roe- | D-Hoe® Competition, Coffee | Pastries Provided, Ballroom | B-C |
| 8:30 AM | 11:30 AM | Registration Open, TBD | | | | |
| Track Topic | | Technical - General | Policy | Local Track MOWPA (am) POWRA (pm) | NAWT | Technical - Nitrogen |
| | Number | VII | VIII | III | IV | V |
| | om | TBD | TBD | TBD | TBD | TBD |
| 8:20 AM | Finish 8:45 AM | Fate of Fecal Bacteria in Sand Media Using OSCAR Technology, Dave Lowe | Update on Onsite Sewage | Impacts of Whole-house Reverse | | Nitrogen Removal Using Saturated |
| 8:45 AM | 9:10 AM | Importance of Wastewater Characterization: Food and Beverage Industries, Lorna Withrow | Nitrogen Reduction in Florida, Eberhard Roeder | Osmosis Systems on Septic Systems, Kevin Koepenick | Vacuum Truck Training | Upflow Woody Fiber Media, Larry Stephens |
| 9:10 AM | 10:00 AM | Reuse Quality Effluent from Restaurant Wastewater, James Bell and Chris Duhamel | New Maryland Law HB 1045 MBR is Shaping the Future of Large System Subsurface Disposal, Amy M. Parrish | History of On-Site Wastewater Treatment Systems at the Pearlstone Conference and Retreat Center, Andrew Hood | | Frosting on the Cake - Passive Nitrogen Removal, Dennis Hallahan |
| 10:00 AM | 10:30 AM | Break in Ballroom B-C, NOWRA National Backhoe Roe-D-Hoe® Competition | | | | |
| 10:30 AM | 10:55 AM | Drain Field Restoration, Mark Reynolds | Cost Analysis of Public Wastewater vs Onsite | Outside the Box Solutions: Case Studies of Unique On-Site Wastewater Systems in the Chesapeake Bay Watershed, Mark Mazzochette | | Reducing Nitrogen Loadings in the Chesapeake Bay Using an Economical, Low-Impact Sewer Solution: A Case Study in South |
| 10:55 AM | 11:20 AM | | Wastewater, Danna Revis | The Value of Nitrogen Reduction for Onsite Sewage Disposal Systems and Drinking Water Wells, Naomi Howell | Vacuum Truck Training | Kent Island, MD, Julie Barown and Todd Mohn |
| 11:20 AM | 11:45 AM | A Tale of Two States: Differential Venting, Kevin Sherman | EPA's Decentralized Program, Heidi Faller & Zach Lowenstein | Control Panels: Using Proper Installation and Data Analysis to | | The Role of Decentralized Wastewater Systems in the |
| 11:45 AM | 12:10PM | | Data Sharing and Initiatives, Joshua Flatley | Optimize System Performance, Reed Johnson | | Revival of the Chesapeake Bay, Claude Goguen |



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| 12:10PM | 1:40 PM | Lunch in Ballroom B-C, NOWRA National Backhoe Roe-D-Hoe® Competition FINALS! | | | | |
| 12:30PM | 1:15 PM | | | NOWPA Annual Meeting - TBL | | |
| 12:30PM | 1:30 PM | | NOWRA Education Committee and Online Training Taskforce Meeting - TBD | | | |
| 1:30PM | 3:30PM | | NOWRA BBP Partners and Lobbying Board of Governors (joint meeting) - TBD | | | |
| 1:30PM | 4:00 PM | | SORA Business Meeting - TBD | | | |
| 1:40 PM | 6:00 PM | | Exhibitor Move-Out | | | |
| 1:40 PM | 2:05 PM | Creating New Methods and Strategies for Dealing with Septic & Bio-solids Management in Developing Countries, JR Inman | Green Building with Onsite Wastewater Treatment Systems, Jonathan Kaiser | Human Manipulated and Human Transported Soils and their Significance in Wastewater & Stormwater Recycling, Russell Losco | Vacuum Truck Training | Cluster & Individual Systems Achieving Effluent Total Nitrogen 3+/- mg/L and Total Phosphorus < 0.10 mg/L, Pio Lombardo |
| 2:05 PM | 2:30 PM | | | | | Groundwater Treatment using PRBs to Achieve Site Net 100+% Nitrogen Removal and Watershed TMDL Compliance, Pio Lombardo |
| 2:30 PM | 3:20 PM | Four Years of Field Experience Piloting the Anaerobic Digestion Pasteurization Latrine, Marc Deshusses | The Importance of Enforcing Regulatory Requirements: "Enforcement" Is Not a Dirty Word, Joseph Soulia | Permit Driven High Intensity Soil Survey Mapping for Planning Sewage and Stormwater Facilities, Laurel F. Muelle | | Development of a Nitrogen Sensor for On-Site Systems, Christopher Clapp |
| 3:20 PM | 3:40 PM | Break, TBD | | | | |
| 3:40 PM | 4:30 PM | Onsite Wastewater Mapping Applications, Ken Curry and David Nichol | Getting Undergraduate Students Excited about Onsite Wastewater Treatment and Reuse, Anish Jantrania | Sustainable Development and Domestic Wastewater Systems : A Comparative Life Cycle Assessment, Marie-Christine Bélanger | Vacuum Truck Training | Agricultural Mineral Soil Additives for Passive Nitrate Removal & Phosphorus Removal Using Low Energy Electrochemistry, Christopher Jowett |
| 5:00 PM | 6:00 PM | NOWRA Annual Business Meeting & Reception, TBD | | | | |
| 6:30 PM | 8:30 PM | SORA Reception (invitation only), TBD | | | | |
| | | Wednesday October 25, 2017 | | | | |
| 8:00 AM | 4:30 PM | Field Trip 1 - Small Onsite Systems Tour | | | | |
| 8:00 AM | 4:30 PM | Field Trip 2 - Large Onsite Systems Tour | | | | |
| 7:30 AM | 7:00 PM | Field Trip 3 - Washington, DC Lobbying Trip | | | | |
| Conference Concludes | | | | | | |
| - Conference Continues | | | | | | |