



Tentative Program

31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

Monday, March 19 & Tuesday, March 20, 2018

**The Manchester Downtown Hotel
(formerly the Radisson Manchester)
Manchester, NH**

- DESIGNERS
- PUMPERS
- INSTALLERS
- EVALUATORS

Seating is limited, so don't miss out on this one-stop continuing education opportunity.

REGISTER TODAY!

Our two-day conference is **THE** industry event of the year where you can earn all six of your continuing education contact hours good for the renewal of your NH septic designers and/or installers permit.

Get a jump on your continuing education requirements for the 2017 - 2018 renewal period by registering for both days!

Register in advance before March 9, 2018 and avoid a \$40 late registration fee!

Click [here](#) to register online or follow the link provided on the home page of **gsdia.org**.

HAVE QUESTIONS?

Call us at (603) 228-1231 or email us at info@gsdia.org.



31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

CONTINUING EDUCATION APPROVALS

Continuing education approval is pending for the following professionals:

N.H. State Permitted Designers and Installers:

3 continuing education contact hours per day by the NHDES Subsurface Systems Bureau

Maine Evaluators, Certified Installers, and Certified Inspectors:

4.5 professional development hours per day

Vermont Class A and Class B Licensed Designers:

3 non-soil continuing education credits per day

Massachusetts (NEIWPC) Soil Evaluators and System Inspectors:

3 training credit hours (TCHs) per day plus 1 TCH for visiting the exhibit hall

NH Certified Wetland/Soil Scientists:

Per March 2011 changes to the administrative rules of the NH Joint Board, the board does not pre-approve programs. As a CWS/CSS, you are to determine the applicability of a particular hour(s) of session time to the practice of wetland or soil science.

CERTIFICATES

Certificates for those who attend will be distributed at the end of the entire program each day. Only those individuals who "sign in" at registration in the morning will receive a certificate. We will not make any different accommodations for individuals to receive their certification, so plan your travel schedule accordingly. If an individual misplaces his or her certificate after the event and requests a duplicate be sent or emailed, the charge will be \$10.00.



Parking at The Manchester Downtown Hotel

GSDI will no longer cover the cost of event parking. A lower "event" rate of \$6 (for up to 8 hours) will be extended to all who use the Granite Street garage connected to the hotel. Bring your parking ticket to the GSDI registration desk to validate it to receive the event rate! A map of other parking options will be posted on our website before the conference and a link to the map will be emailed to all participants with email.

Why not consider carpooling?



31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

MONDAY, MARCH 19, 2018

8:00 AM Check-in and Exhibit Hall Opens with Continental Breakfast

8:45-9:00 AM GSDI Annual Meeting & Election of Officers and Directors

Conference Welcome, Introductions, and Announcements
Carl Hagstrom, Conference Committee Chairman,
Monadnock Septic Design, LLC, Fitzwilliam, NH

9:00-10:00 AM Opening General Session: Address by NHDES Water Division Director

Gene Forbes, Director, Water Division, NH Department of Environmental Services, Concord, NH

GSDI is pleased to welcome Water Division Director, Gene Forbes, to the conference stage to offer an update on happenings within the agency with particular focus on those programs which impact our industry the most, including Wetlands, Shoreland and the Subsurface Systems Bureau. He will also touch upon legislative efforts as well as an update on staffing efforts.

10:00-10:45 AM Break with Exhibitors

10:45 - 11:45 AM Breakout Session 1

System Technology Session: Advanced Onsite Solutions of New England

Gary Spaulding, Advance Onsite Solutions, Concord, NH

Advanced Onsite Solutions and GEOMATRIX present the GeoMat™ low profile leaching system.

The GeoMat is low profile and designed for maximum treatment and infiltration of wastewater into soil. GeoMat may be utilized with wastewater from a septic tank or pretreatment system.

Wastewater flows into the GeoMat through gravity and/or pressure piping systems. The wastewater is discharged into a highly transmissive core that is covered by a hygroscopic membrane. This combination of the core and membrane draw the water between the application points and uniformly apply the water to the surrounding soil. The soil then draws the water away from the surrounding membrane through capillary action. This results in a more efficient and uniform application of waste water to the soil and minimizes the point loading.

GeoMat system is approved in NH with a 24" to seasonal and 24" to ledge separation. The GeoMat low profile system keeps the cross-section from bed bottom to finish grade at 8". This session will discuss the proper design and installation of the system. System sizing, layout, sand selection, and installation procedures.

-OR-

Exhibitor Theater

Presenting Company: CADNET Services, LLP

Topic: CAD and Other Computer Software Tools You Can Use

11:45 AM - 1:00 PM Buffet Lunch with Exhibitors

Enjoy a great hot lunch, visit with exhibitors, and participate in vendor prize drawings.

1:00 - 2:00 PM Breakout Session 2

NH DigSafe Law and the Enforcement Process & the DigSafe Call Center

William Ruoff, Utility Analyst, NH PUC (and NH Dig Safe Program) and Robert Finelli, President, Dig Safe System, Inc.

This important session is for both designers and installers as they conduct field work and excavation work which could put them at risk of making contact with underground utilities. Buried public utilities can turn up in some of the most unexpected places. Keeping yourself and your crew safe while also preventing costly damage and service interruptions is part of the message of this session. Bill Ruoff will address what the laws are here in NH and how they are enforced. Bob will talk about the operation and procedures of the Dig Safe Call Center covering all of New England.

-OR-

Evaluator's Session: Inspection Considerations

Tom Canfield, Thomas Canfield Earth Construction, Rochester, NH and Peter Russell, Russell Inspection Services, LLC, Alton Bay, NH

Session description to be announced.

-OR-

Continued on next page.



31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

MONDAY, MARCH 19, 2018 CONTINUED

Exhibitor Theater

Presenting Company: Presby Environmental

Topic: Presby EnviroFin Wastewater Treatment System: Small Size; High Performance

Presenting information and discussion on EnviroFin installation, system evaluation techniques and third-party testing in a very small footprint.

2:00 - 3:00 PM Breakout Session 3

System Technology Session: Orenco Systems

Blake Johnston, Sales Manager, Orenco and Josh Scotton, Operator/Design Consultant, Water Industries

During this second session in our series of sessions about manufactured systems approved for use in NH, Blake Johnston and Josh Scotton will discuss design, installation, and inspection considerations for the use of Orenco AdvanTex wastewater treatment systems and Orenco Effluent Sewers. AdvanTex wastewater treatment systems are used for residential and commercial applications requiring secondary treatment. Orenco Effluent Sewers are a cost effective collection system for small to large communities.

-OR-

Quantifying Gas Flow Generated by the Differential Venting of Decentralized Systems

Kevin Sherman, Ph.D., Technical Specialist, Presby Environmental, Inc., Whitefield, NH

Decentralized wastewater soil absorption systems are found in a vast array of configurations. One version of these systems takes advantage of the air flow passing over the top of the drain waste vent (also called a roof vent) to draw some gas out of the top of the pipe. Differentially vented soil absorption systems install a second vent at the distal end of the soil absorption system at an elevation at least 10 feet lower than the roof vent. This type of low vent has been specified in Wisconsin mounds for decades, but not to improve air flow in the soil absorption system. They are also required in NH and MA under circumstances where air exchange is thought to be less than optimal. Despite their frequent and long history of use, there are relatively few scientific studies that quantify the gas flow through decentralized systems. The goal of this presentation will be to further the discussion about the need for additional venting and what the research from out in the field is telling us.

-OR-

Invited! CDL Licensing Update, Proper Heavy Equipment Securement and Questions & Answers with the N.H. State Police

Trooper Scott Atherton, Troop G, NH State Police, Concord, NH

Though he often suggests that he does not have all that much to offer, each year officers from the NH State Police CDL unit never leave without a long line of our attendees looking to get their questions and concerns about licensing and vehicle inspections answered. Trooper Atherton will offer an update on changes to both state and federal regulations and then open the floor to your questions.

3:00 - 3:30 PM Refreshment Break with Exhibitors

Enjoy a quick break with exhibitors.

3:30 - 4:30 PM Land Resources Management Program Wetland and Shoreland Update

Jay Aube, Shoreland Program Outreach Coordinator, NHDES Land Resource Management Program, Concord, NH

During this closing general session, Jay will provide an update on recent changes to wetland rules and offer guidance for those working within shoreland boundaries. He will discuss the current permitting process, enforcement practices and offer important reminders for those submitting permits and those actively installing and excavating within jurisdictional areas.

-OR-

Special Evaluators Update from the Board of Septic System Evaluators

Christine Horne, Administrative Supervisor, Board of Septic System Evaluators

The NH Board of Septic System Evaluators is now operational and Christine has been asked to provide an update on the status of the administrative rules governing the evaluator program including issues related to obtaining a license now that the grandfathering provision has expired. Matters related to evaluator training, the path to licensure for those interested in becoming licensed, and continuing education requirements are also expected to be addressed.

4:30 PM Distribution of Certificates of Attendance



31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

TUESDAY, MARCH 20, 2018

8:00 AM Check-in and Exhibit Hall Opens with Continental Breakfast

8:45-9:00 AM Welcome and Announcements

Carl Hagstrom, Conference Committee Chairman, Monadnock Septic Design, LLC, Fitzwilliam, NH

9:00-10:00 AM Opening Session: Lessons from the Woods and A Discussion of System Sands

George Heufelder, MS, RS, Director of the Massachusetts Alternative Septic System Test Center, Barnstable, MA

George Heufelder has been involved in the research and testing of alternative septic system technologies for many years. George will offer highlights of his ongoing testing of passive layered systems and their efficacy in de-nitrifying waste water produced by on site systems. The system he is currently testing utilizes wood chips as its media. He will also offer data related to sands taken from shallow demonstration systems located at his test site.

10:00-10:45 AM Break with Exhibitors

10:45 - 11:45 AM Breakout Session 1

System Technology Session: Presby Environmental

Technical Staff, Presby Environmental, Inc.

"Strategic Dispersal" - Using Sand/Soil Characteristics and Wastewater Treatment Capabilities to Drive Innovative Dispersal Design

There are many different rules, specifications, and methods pertaining to onsite septic system wastewater dispersal, from state to state and even county to county in some areas. This is not a surprise, considering the many variables and complexity of dispersing wastewater, in its many forms, depending on the amount of treatment it has received. In some instances, rules and specifications that were developed for the dispersal of primary treated effluent (septic tank treatment only) and distributed by pipe and stone or chambers, are applied to systems with much higher levels of treatment and dispersed in a sand media. While this may simplify the rule-making process, it amounts to forcing a round peg into a square hole, whereupon significant innovation is sacrificed to make it fit. Frequently, "treatment" and "dispersal" get lumped together as a single function of onsite septic systems. However, viewing these as related, but separate functions, unlocks the innovative potential of designing systems which maximize the attributes of both while limiting the shortcomings of each.

This presentation discusses an overview of practices with a focus on the dispersal of wastewater from combined treatment and dispersal systems, certified to NSF/ANSI Standard 40 treatment levels, and surrounded by a medium-to-coarse sand media. The presentation shows how the characteristics of these systems (wastewater treatment levels, permeability, capillary forces, sand/soil interface, etc.), are markedly different than conventional and other types of systems, and allows for a much smaller footprint and innovative, dispersal configurations & techniques.

-OR-

The Secret Life of Septage

Ray Gordon, Supervisor, NHDES Residuals Management Section

New Hampshire generates over 100 million gallons of septage a year. To many it is a mystery where this material goes after it is removed from the septic tank. But there is life after the septic tank! Septage can travel to many exotic places like farm fields and lagoons. Some septage takes a trip to neighboring states, but most septage will only travel as

We thank our sponsors!

Monday & Tuesday buffet lunches sponsored by Advanced Onsite Solutions, LLC



Conference tote bags sponsored by Presby Environmental



31st ANNUAL SPRING SEPTIC SYSTEM CONFERENCE & EXPO

TUESDAY, MARCH 20, 2018 CONTINUED

far as your local wastewater treatment facility in its quest to become something better than a waste. Sadly some septage never completes its quest and forever remains a waste. Join us to learn how things have evolved from Ancient Chinese practices to our modern septage management programs of today!

-OR-

Exhibitor Theater

Presenting Company: Powderhorn Agency

Topic: Insurance protection for your business and for your clients.

This session will discuss the importance and features of E & O insurance for septic system designers and inspectors. Discussion will also include the benefits of offering septic system protection warranties to your customers.

11:45 AM - 1:00 PM Buffet Lunch with Exhibitors

Enjoy a great hot lunch, visit with exhibitors, and participate in vendor prize drawings.

1:00 - 2:00 PM Breakout Session 2

System Technology Session: Eljen In-Drain

Megan Thomson, Eljen Corporation, East Hartford, CT

During this fourth session in our series of sessions about manufactured systems approved for use in NH, Megan Thomson will focus on the use of Eljen GSF systems on troubled sites, including a discussion of the problems encountered and how the system was sized and employed to address those concerns.

-OR-

Evaluations for Commercial Sites

Gary Spaulding, Advanced Onsite Solutions of New England

Advanced Onsite Solutions LLC will present methods used to evaluate commercial septic systems and preparing reports for the owners and options used to help extend or rejuvenate a stressed EDA.

2:00 - 3:00 PM System Technology Session: Infiltrator Water Technologies & Pipe Specifications and Applications for Septic Systems

Larry Earney, Infiltrator Water Technologies

During this final session in our series of sessions about manufactured systems approved for use in NH, Larry Earney will discuss important design, installation and inspection considerations for the use of Infiltrator's onsite waste water treatment systems.

Larry will also address proper septic piping applications and specifications with a focus on pipe installation issues.

3:00 - 3:20 PM Afternoon Refreshment Break

3:20 PM Closing General Session: State Inspectors Panel Discussion and Update from Bureau Administrator, Rob Tardif, PE

Rob Tardif, PE. Administrator, NHDES Subsurface Systems Bureau

After a brief update from state system inspectors, this will be your chance to ask questions of them about the inspection process and best practices to ensure an operational approval and how to seek assistance from inspectors along the construction process. We will close with an update from Rob Tardif including any news on staffing and any efforts to further streamline processes within the bureau.

4:30 PM Distribution of Certificates of Attendance



Granite State Designers and Installers Association

53 Regional Drive, Concord, NH 03301

Return Service Requested

Conference Exhibitors (As of February 7, 2018)

AAA Pump Service, Inc.	Infiltrator Water Technologies	Presby Environmental, Inc.
Advanced Onsite Solutions, LLC	J & R Sales and Service, Inc.	Pump Systems, Inc.
Blake Equipment Co.	Liberty Pumps, Inc.	R.E. Prescott Co., Inc.
Bryant's Pipe Connections	Maine Technical Source, Inc.	Septic Preservation Services
CADNET Services, LLP	New England Laser & Transit Co.	SeptiTech
Clear Water Industries	New England Septic Solutions	Shea Concrete Products, Inc.
Core & Main	NHDES Residuals Management	Siegmund Environmental
Eastpoint Lasers, LLC	NHDES Subsurface Systems Bureau	The Dirty Bird
E.J. Prescott, Inc.	Pepin Precast	Water Industries, Inc.
F.R. Mahony & Associates, Inc.	Polylok, Inc.	William N. Lamarre Concrete
F.W. Webb Co.	The Powderhorn Agency	Products, Inc.

Overnight Accommodations: Need a hotel guestroom? A limited block of rooms are available at The Manchester Downtown Hotel (formerly the Radisson Manchester) at the GSDI rate of \$139 plus tax per night. Call 603-625-1000 and ask for the GSDI rate. The room reservation cut-off date is Sunday, February 25, 2018.



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GSDIA.ORG



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Online registration is available AND you can use a major credit card too!

Visit GSDIA.org and click on the registration link on our home page.

MONDAY, MARCH 19 & TUESDAY, MARCH 20, 2018 The Manchester Downtown Hotel, Manchester, NH

Company/Town/Agency Affiliation: _____

Business Address: _____

City/State/Zip: _____

Email: _____ Phone: _____

GSDI Member? (yes/no) _____ Employees and spouses of members can register at the member rate if the member registers at the same time.

To register online (via credit card or check), click [here](#). Please alert us to any dietary restrictions or ADA requirements.

Attendee Name: _____

Monday & Tuesday Program Monday Program ONLY Tuesday Program ONLY

Designer # _____ Installer# _____ Pumper Evaluator

Attendee Name: _____

Monday & Tuesday Program Monday Program ONLY Tuesday Program ONLY

Designer # _____ Installer# _____ Pumper Evaluator

Attendee Name: _____

Monday & Tuesday Program Monday Program ONLY Tuesday Program ONLY

Designer # _____ Installer# _____ Pumper Evaluator

Registration Fees (per person)

Two-Day Program:	\$130 Member rate	\$155 Non-Member Rate
Monday ONLY:	\$90 Member rate	\$115 Non-Member Rate
Tuesday ONLY:	\$90 Member rate	\$115 Non-Member Rate

Register in Advance by March 9 to Avoid Higher On-Site Rates!
Walk-in registrations will incur an additional on-site processing fee of \$40 per person.

Town/Municipal Officials not holding a designer's or installers license: \$45 (per day)

Any registration changes made after March 5 are subject to a \$25 administrative fee.

Total Amount: \$ _____

Please make checks payable to: GSDI or charge my VISA / Mastercard / American Express

Card Number: _____ Exp. Date: _____ CVV # _____

Name on Card: _____

Mailing Address if different than above: _____

Cancellation Policy: Advance registrations are important to ensure adequate accommodations.

Cancellations made on or before March 9, 2018 will qualify for a full refund. No refunds will be offered after that date as commitments have been made to the hotel.

Return by mail to: GSDI, 53 Regional Drive, Suite 1, Concord, NH 03301 or return by fax to: (603) 228-2118