

Happy Holidays



We wish all our members a wonderful holiday



**CONNECTICUT ONSITE WASTEWATER RECYCLING
ASSOCIATION**
SUPPORTING CONNECTICUT AND OUR ENVIRONMENT

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Winter 2017

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**COWRA Brochures are
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\$50.00 per 100, including
shipping**

Dear COWRA Members,

I thank Bob Scully from the CT DPH for joining us at our annual meeting, and discussing some of the changes to the 2018 Technical Standards. I also want to thank all our Vendors for sponsoring our meeting, and their generous support of our organization at this year's meeting. It is always a pleasure to spend time with our members and sponsors at these events. We all had a great time.

Please be aware that beginning in 2018, the Technical Standards will be changing and our members will want to take note of these changes for installs taking place in 2018.

Our 6-week installer course begins January 18, 2018. This might be a perfect time for our members to refresh their knowledge and learn of the changes taking place in 2018 by taking our course.

I hope all of our members have a Happy Holiday Season and a prosperous New Year.

Sincerely,
Frank R. Talarico

Will we ever know what Bob Scully just said to Bill Hall?



New Members Profile



Daniel Dziadul owner of Septicology LLC joined us in July of the year. Daniel entered the septic business in 2014. Septicology specializes in septic inspections. Daniel approaches septic inspections objectively; because his company does not do installations or repairs, he feels his judgement is not clouded by the results of his inspections. Therefore, he can give his clients an unclouded opinion of his findings, devoid of any potential conflict of interest. His inspections thoroughly cover all components of the septic system, and he will release a detailed report within 24 hours of inspection. To learn more about Daniel and Septicology, visit them on the web at: www.septicology.net



Arthur Jenkins, of Kelly Underground Services joined us. Arthur is the new owner of Kelly Septic Tank Service, LLC, having recently

purchased it from long-time member Jeffery Brooks. Arthur is scheduled to take COWRA's installer course in January 2018. Kelly Underground Services include: septic installations and repairs, residential and commercial septic cleaning and maintenance, drain services, grease trap cleaning and excavations. Arthur's company offers 24/7 emergency services. To learn more about Kelly Underground Services, visit them on the web at: www.kelleyundergroundservices.com

COWRA's 2017 Annual Meeting



On November 4, 2017 COWRA held its Annual Meeting at Quarry Ridge in Portland CT.

Our members enjoyed a great meal in the company of friends and associates. Members visited with our vendors. Each year our dedicated vendors sponsor our annual meeting as the companies that provide our members with the supplies and products, they need to do their jobs. Vendors spent time explaining their product lines. Our vendors generously supplied products and gifts for our door prizes. A brief business

meeting was held to discuss the new Technical Standards that will be in place in January 2018 and other events of the past year.



Bob Scully spoke briefly regarding the proposed changes to the 2018 Technical Standards that will take effect in January of next year. We are very thankful to Bob for taking the time to come to our meeting and speak to our members.



Frank Talarico spoke to our members briefly regarding current events happening within our industry that might affect our members. At our annual meetings we hold elections for our board of Directors. Frank asked for nomination from the floor for open position on the Board of Directors. No one put forth a nomination. The current Board members whose term were up in 2017 were asked if they were willing to remain on the Board of Directors all were willing with the exception of Phil Zink of Sanitol who decided not to remain on the Board. There are two positions currently open on our Board of Directors.



For many years **David Evans** has been protecting the interests of our members by monitoring the laws proposed for the Connecticut Legislature. David Evans spoke briefly at our meeting, regarding legislation.

Dave was happy to announce the Connecticut finally had a budget after over four months without one. COWRA is very grateful to David Evans, of Evans Associates, for speaking to our members and for the years of dedication to our organization.

Annual Meeting Vendors

COWRA would also like to thank the following vendors who displayed their products and were on hand to explain their products to our members. We thank all our vendors for their support of our organization and for their many generous donations of door prizes.



We thank Infiltrator Water Technologies, who sponsored our meeting. Special thanks to Donna Fiorentino, Mike McLaughlin and Kristin McLaughlin who attends our meeting

each year and provides our members with detailed information about Infiltrator's product line.



Infiltrator is a company that, above all else, values integrity and doing the right thing. They listen to their customers, employees and business partners to better understand their needs and develop or enhance products. They believe in being honest, fair and trustworthy in all of their business dealings. Infiltrator is committed to advancing the state of the art on all fronts, including: product design, manufacturing, materials, wastewater science, marketing, management and employee development. They strive to be the best they can be.

Infiltrator offers a full line of plastic leach field chamber products, tanks, risers and accessories for use in septic systems. We have an extensive network of distributors throughout North America and Europe who maintain inventories of our products and also provide contractors and installers with product delivery and installation support.

Infiltrator products offer ease of installation. Chambers and tanks can be delivered to the site in a pickup truck and hand-carried into position. For most jobs, two people can install a system in less than half the time it takes for a comparable stone and pipe leach field.

No stone or geotextile is typically required, and chamber installations use less pipe. Installations are faster so you save on heavy equipment operation and eliminate the need for heavy trucks used to transport stone. Therefore, infiltrator saves on cost of installations.

There is less site disruption with Infiltrator products since their chambers typically occupy a smaller total area than stone and pipe leach fields, and use less heavy equipment, there is less damage to property and landscaping. Elimination of stone means easier clean-up at the job site.

Infiltrator's superior technology in their chambers has a solid top that prevents infiltration of rainwater and the intrusion of fines. Sidewall louvers allow lateral leaching and evapotranspiration. The open bottom provides an unobstructed soil interface, allowing up to 50% reduction in trench length. Their patented chambers interlock with an advanced design, connecting them end-to-end with a precise fit. Advanced contouring connections allow chambers to avoid obstacles.

Infiltrator's product line includes chambers, their environmentally friendly replacement product EZflow, tanks, tank risers, Aquaworx products, Ezflow drainage and their advanced treatment leach field systems.

Infiltrator Water Technologies is a worldwide company with Over 400 employees. With a product line of innovative products and services, Visit them on the web at www.infiltratorsystems.com

We thank Hunter Ward, Mark Henderson and Kevin Brown who joined us from of Blake Equipment Company



The Blake Group is a full-service specialty distributor and manufacturer's representative of water and thermal energy solutions. They celebrate 90 years in business in 2017. The success of their company is due to their excellent and dedicated employees and the strong history and relationships they share with our customers and business partners. Blake is committed to leveraging technology. Customers can locate products, place orders and access their accounts at anytime, anywhere from their computer, phone or tablet through The Blake Group's Online E-Commerce Portal. Their focus is on the customer. Blake is guided by their core values of Teamwork, Integrity, Innovation and Excellence. They have passion for what we do. They are accountable to their customers. They have been following this successful model for 90 years.

Blake Equipment has served customers in Connecticut and Western Massachusetts for over 70 years with design support, sales, parts and service of "Best in Class" products and value. Whether you're installing a pumping system, proprietary septic system, replacing existing equipment, or required maintenance and repair work, Blake Equipment will keep you on-line with maximum efficiency, always at the most competitive price.

Blake Partners with Septic Contractors Housing starts have been rebounding in the northeast. Most of these are in rural areas resulting in an increased demand for high-quality, efficient and durable onsite wastewater systems. In order for those systems to successfully treat residential wastewater, all the components must work efficiently to allow for the chemical and biological reactions to occur. Septic Contractors bring their expertise to bear on delivering the right solution. Blake Equipment stocks the industry's most respected brands in onsite wastewater equipment, parts and supplies in each of its

12 locations. We use our own fleet of trucks and drivers to deliver your orders to your shop or site. A catalog of Excavation Solutions is available on-line or through your local Blake Equipment Distribution Sales Representative or Branch. Orders can be placed online, through our phone application or you may call, fax or email your order to your local branch or Blake Representative.

Blake Partners with Excavation Contractors.



Some of the most important work in a construction project stays underground. The pipes, tanks, and other water management equipment must be reliable and safe or companies risk devastating long-term problems. The Blake Group can be trusted for the safest, most reliable water management and excavation supplies from industry leaders.

The Blake Group will help companies avoid long-term risks and problems down the road with proven solutions. Blake has 90 years of expertise in solving problems. Weather can pose big challenges and setbacks to excavation contractors. Another challenge excavation contractors face is work delays that result from waiting for materials to arrive on the site. Blake can't control the weather but we can control deliveries. Blake stocks what our industry needs and they deliver in their own trucks to the company's jobsite.

Blake Partners with Civil Engineers. Civil engineers look to Blake Equipment for solutions related to water and wastewater pumping and treatment. We provide water and wastewater solutions into the municipal, commercial, institutional and industrial markets. By integrated we mean everything related to the system: pumps, valves, water treatment, controls, chemicals and media selected to work synergistically as a whole system. Our customer fabrication capabilities mean you can design a specific solution, we can build it so that it will be installed just as you envisioned. Our factory authorized service team will do the startup, support the client over the warranty period and provide service to the system over its service life.

Blake Equipment employs the best in the industry. Their employees are the best factory trained and licensed technicians. You can expect the best technicians available when you call the Blake Group. For a complete list of products and services visit them on line at: www.blakeequip.com

We thank Eljen Corporation, for their sponsorship of our annual meeting. Eljen is a leading manufacturer of proprietary systems.

Eljen Corporation was established in 1970. Eljen has created the world's first pre-fabricated drainage system for foundation drainage and erosion control applications. Today, Eljen is a global leader in providing innovative products and solutions for protecting our environment and public health.

Eljen Corporation's focus is on advancing the onsite industry through continuous development of innovative new products. They deliver high quality products and services to their customers at the best price and build lasting partner-ships with their employees, suppliers and customers.

**Prefabricated Drainage Systems
Eljen Pioneered the FIRST Non-Aggregate Drainage System!**

First developed in the 1970s, Eljen's revolutionary non-aggregate, Prefabricated Drainage System has proven itself by withstanding the test of time. Complete customer satisfaction is achieved by emphasizing quality and customization.



Eljen GSF Passive Advanced Treatment Technology

The Eljen GSF Geotextile Sand Filter System is a cost-effective upgrade from other septic technologies. Comprised of a proprietary two-stage Bio-Matt™ pre-treatment process, the GSF Modules apply a better-than-secondary aerobic effluent to the soil, increasing the soil's ability to accept the effluent. The result is a superior treatment in a smaller absorption area.



Mantis M5 Series

The Eljen Mantis M5 Series is a wastewater dispersal and disposal technology that applies clarified effluent to the native soil through a proprietary filtering process. The Mantis M5 protects the native soil's long term acceptance rate by keeping the biological growth off the native soils and within the Mantis M5 units. Each module consists of a cusped core surround by Bio-Matt™ geotextile fabric. The unique design of the Mantis M5 increases the available surface area within each module. The Mantis 536-8 and Mantis Double Wide provide increased treatment area in less space.



The goal of Eljen Corporation has been to develop innovative environmental products and solutions for onsite wastewater treatment, erosion control and storm-water industries.



Eljen has developed improved water management on slopes. This system encourages recycling of pretreated effluent. It minimizes the footprint and eases access and installation in difficult-to-reach locations. Eljen

Prefabricated Drainage Systems are the industry's first Non-Aggregated Drainage Systems. They have developed improved water management on slopes which comprise two systems for both surface and subsurface water control.

Eljen Waterproofing Protection and Drainage systems provide a major advantage over other technologies. To learn more about these products and other Eljen products please visit them on the web at www.eljen.com

We would like to thank David and Elizabeth Potts of Geomatrix Systems LLC for sponsoring our annual meeting. Since 1987, Geomatrix Systems LLC has engineered a wide variety of systems for soil and water treatment to help protect the environment.



With a multi-disciplined team of engineers and scientists specializing in soils, wastewater treatment, microbiology, hydrogeology and construction management, Geomatrix is uniquely qualified to analyze

and solve challenging wastewater treatment problems. Geomatrix products include: the **GeoMat Flat**, is the lowest profile system for sites limited by ledge, water table for impermeable soils; **GeoMat Edge** is for high surface area, low profile pressure-distributed systems for sites



limited by setback obstacles; **GeoU** is for the highest surface area, small foot print for sites limited by setbacks or land area and is SoilAir enhanced; GST is for the highest surface area use of traditional technology for

achieving reduced footprint; **S-Box** is for high surface area, small foot print and is easy to install.

Since 1987, the SoilAir staff has engineered a wide variety of systems for soil and water treatment to help protect the environment.

SoilAir is a patented technology that intermittently aerates the drain/leach field and the surrounding soils rather than constantly aerating the wastewater in a tank. This process allows rapid rejuvenation of failed septic systems, extends the lifespan of new leach fields and enhances treatment.

With our Engineers and Scientists, specializing in soils, wastewater treatment, microbiology, hydrogeology and construction management, SoilAir is uniquely qualified to analyze and solve your challenging wastewater treatment problems.

The SoilAir solution is provided through local leaders in the septic industry who are uniquely qualified to evaluate, install, service and maintain both your SoilAir and septic system.

Over 2,000 SoilAir Systems are in use across the U.S. and Canada in a wide range of climates and soils; these systems are serving single and multi-family homes as well as challenging and high-strength waste streams, such as



restaurants, hotels, marinas, laundromats, healthcare facilities, grocery stores, food processing facilities and convenience stores.

Unlike many wastewater treatment systems, SoilAir systems have been studied for extended periods of time and proven effective by leading universities, third-party test organizations and industry leaders in the field.

Benefits of SoilAir

A SoilAir system rapidly restores proper septic system function, enhances B.O.D., pathogen, nitrogen & phosphorus removal with minimal disruption and damage to existing landscaping. It lowers installation, operation & maintenance costs and is a long-term solution.

In a process similar to composting, SoilAir can rejuvenate even the most severely failed septic systems, often in only a few days. Products that try to rejuvenate by aerating the wastewater are at a significant disadvantage. When air is bubbled into water the bubbles float up and return back to the atmosphere, this is due to bouyancy and because water can hold only a limited amount of oxygen. SoilAir puts the air directly into the clogging biomat and adjacent soils where the root of the septic failure lies. When air is introduced in this manner, the process is significantly faster and more complete than when it is introduced indirectly through the water. SoilAir

has been successfully utilized on projects that could not be rejuvenated with pretreatment devices and even on systems that failed despite the fact that pretreatment system was in operation from day one.

All types of systems from stone and Pipe, chambers, even drip can be rejuvenated with SoilAir



We thank Patrick Mulhall of Polylok for sponsoring our annual meeting.

Polylok, Inc. is an international supplier of plastic injection molded products for the precast, drainage and wastewater industries. Their home office is in Wallingford CT,

though they have partnerships with several supply houses across the United States and Canada. Polylok was established in 1984. They design, manufacture and ship their products from their Wallingford location. Polylok also has a division in Europe that is based in Kildare, Ireland. Unlike the majority of their competitors, they design their products in-house, and manufacture in the USA. Polylok has two manufacturing facilities in Connecticut and one in Indiana. In addition, they hold more than 75 patents and produce more than 200 different products. Polylok is constantly striving to develop new and innovative products.

Patrick Mulhall, VP of Sales, oversees a team of inside and outside sales representatives who assist customers throughout the United States, Canada, and many locations around the world. The inside sales team is available Monday-Friday, from 7:30am-5:00pm EST. Their sales team collaborates on a daily basis to ensure customer satisfaction, and works together with engineering and design to share new product ideas. Polylok, Inc. sales representatives attend many national and state trade shows across North America; they also attend conferences, counter days, and product training sessions.

Along with the main corporate shipping location in Connecticut, Polylok, Inc. utilizes warehouses on the west coast, in the Midwest and in Canada. Utilizing supplying warehouses throughout North America decreases the time and freight cost to supply customers in all parts of the United States and Canada. Polylok, Inc. now has a branch located in Ireland to meet the needs of our overseas customers in an increasingly efficient and cost-effective manner.

Polylok Inc.'s roots are in the precast business, establishing their footing in the industry with United Concrete. United Concrete is the largest precaster in New England and Polylok collaborates with them to determine what a precaster needs and wants. Meeting the needs of

United Concrete, along with many other businesses, has enabled Polylok, Inc. to become the foremost supplier to the precast, drainage and wastewater industries.

The Polylok, Inc. team takes great pride in offering exceptional customer service, delivering products that are unmatched by our competition, and striving to create new ways to meet the needs across multiple industries. Their goal is to remain the leader in providing innovative products to the precast, drainage, and wastewater industries.



The Polylok, Inc. team is energized and focused on growing its business. In addition to serving, they existing customers with current products, they are dedicated to innovating, continually introducing new products and improving on the existing line.

At the same time, they keep costs down by combining their business office with their manufacturing and warehousing facility.

From the beginning, Polylok has been a company focused on delivering innovations to the precast, drainage and onsite wastewater industries. In 1995 Polylok introduced the Equalizer. This product changed the installation of septic tanks for many installers. The Equalizer is used to self-regulate the flow of effluent to the leach field.



Polylok's PL-122 Filter is designed for residential and light commercial use. Its patented filter ball serves two purposes: it deflects gases in the tank and it automatically inhibits the flow of solids into the leaching fields.

Polylok's D-Box seal accepts multiple pipe sizes while ensuring watertight performance. One of the D-boxes offered by Polylok allows for multiple inlets and outlets, has stabilizing feet to prevent frost from lifting it up and ensures watertight performance with the Polylok D- Box Seal.



Polylok is committed to maintaining the finest product line and continually introducing new products for their customers in the wastewater industry. For more information on their product line visit them on the web at www.polylok.com.

We ask our members to remember those companies who support our organization.

COWRA's 2018 Installer School

COWRA is accepting applications for our 2018 Installer School. Students enrolled in the Installer School are automatically enrolled in the Pumper/Cleaner School. Both Schools will be held at First Church in Middletown CT in their second-floor conference room. Classes for the Installer School will begin on Thursday January 18, 2018 and run for 6 consecutive Thursdays.

Topics for the Installers School include: Septic Tanks: design, structure, function; watersheds and drainage profiles; Soils: physical characteristics, profiles and types, identification; Site Conditions: deep hole and percolation testing, plumbing and pipe configuration; Distribution Systems; Leaching fields; Trenches, Dry wells, Galleries; Curtain Drains; Biomat; Septic Failures; Transit work and Surveys; Septic Design: MLSS, plans and sketches, forms, etc.

The school will cover all sections of 19-13-B103 and 19-13-B100a of the CT Public Health Code, Technical Standards and the Design Manual for subsurface sewage disposal systems. Example questions of the type encountered on the Installer exam will be covered. Practical exercises will be assigned for class work and field-encountered problems will be discussed. Students will need to obtain a calculator and an engineer's ruler for the course.

Materials for School

The materials you will receive include the updated CT Public Health Code 19-13-B103 & Technical Standards for Subsurface Sewage Disposal Systems (SSDS), Design Manual for SSDS, a Study Guide & other handout.

The Cost of the Installers School is \$275.00 tuition fee for COWRA members & their employees. Non-member's tuition fee is **\$485.00**. Manuals are included in the cost of each course.

COWRA 2014 Pumping/ Cleaning School

COWRA is accepting applications for our 2018 Pumper/Cleaner School. This course will be held on February 22, 2018 at First Congregational Church of Cromwell at 355 Main Street Cromwell, CT 06416.

Topics included are: Septic Tanks: design, structure, function; Watersheds and Drainage Profiles; Outlet filters; Port-o-lets, etc.

The school will specifically cover sections of the CT Public Health Code 19-13-B103 General Provisions (pages 5 and 6 in the code) and 19-13-B100a, as well as the Technical Standards Section V on Septic Tanks (pages 28-32 in the code), Chapter 9 on Septic Tanks and Grease Traps from the Design Manual. The majority of the questions on the Pumper/Cleaning exam come from the parts of the Code, the Technical Standards and the Design Manual.

The Cost of the Pumper/Cleaner class for students not taking the Installer course is \$85.00.

Pumper & Cleaner Environmental Expo Indianapolis IN, February 21-24th 2018

At the WWETT Show attendees will find the best in education for our industry. There are over 100 sessions spanning three days, covering a wide variety of industry and professional topics, and all are included with a full education package.

Sessions are led by top industry experts and professionals from leading associations, businesses and manufacturers. And many sessions count toward fulfilling required continuing educational units (CEUs) and professional development hours (PDHs).

The annual Pumper and Cleaner Environmental Expo is the world's largest annual convention and trade show for liquid waste. This year's expo will begin on February 21, 2018. To learn more about the Pumper/Cleaner Expo and how to register to attend, please visit them on the web at www.wwettshow.com

Dates to Remember

As of January 1st, 2018, the State of Connecticut Department of Public Health will revise Technical Standards for Subsurface Sewage, (see the proposed summary in this newsletter).

COWRA Membership Renewal Forms must be received by **February 28, 2018**, to guarantee your updated listing in our Consumer Directories. Please return the form promptly.

Installer and Pumper/Cleaner School applications must be in by January 12, 2018 to avoid a \$30 late fee.

A Few More Pics of Our Annual Meeting



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2017 Annual Meeting

FORWARDING SERVICE REQUESTED

UPDATES!! Registration Information for 2018 State Installers & Cleaners Exams:
 You MUST contact the Department of Public Health to register for the Installers & Cleaners Exams. Attendance at the COWRA Installer School DOES NOT register you for the State exam. Please contact D.P.H. at 860-509-7296 for any information pertaining to your results and license. You may also contact them by going to www.dph.state.ct.us/licensure/apps/subsew.pdf

2018 Examination Schedule Subsurface Sewage Installer/Cleaner

Exam Date	Application Deadline
March 2, 2018	February 23, 2018
June 1, 2018	May 25, 2018
September 7, 2018	August 24, 2018
December 7, 2018	November 23, 2018

Connecticut Onsite Wastewater Recycling Association
 For a copy of COWRA's 2018 Study Guide please call (860) 267-1057