



33rd Annual
Convention & Expo

January 27-28, 2023

Hickory Metro Convention Center

Hickory, NC

DETAILED AGENDA FRIDAY JANUARY 27, 2023

WELCOME TO THE LARGEST ONSITE CONVENTION IN NORTH CAROLINA!!!

The onsite industry in North Carolina has seen a lot of additions and is experiencing numerous changes. There are now several permitting paths for systems and new system types are entering the arena. At this convention you will have the opportunity to see presentations and demonstrations that will help you to grow your business in 2023 and the coming years.

Those of you that have attended a NCSTA convention before will notice some of the adjustments and changes we have made. First and foremost there will not seem to be as many attendees which is due to the fact that the attendees have been divided into two days instead of only the one largely attended single day. Also, there will not be an opening hour in a single room for all attendees we will go straight into the separate class rooms.

You choose which classes you attend during the day. Each class on the agenda list the credits you will receive for each class. Select your classes based on your individual needs and interest. Some permits require specific classes are attended such as the pumper and land application classes these are marked on the agenda as being required for pumper and land app.

Because the convention is divided into two days there will not be a social hour at the end of the day. The drawing for the TV and 50/50 cash prize will be held at the end of the day on Saturday. If you are the lucky winner of the TV it will be shipped directly to you and if you win the 50/50 cash drawing a check will be mailed to you. NCSTA appreciates your continued support of the scholarship fund which allows NCSTA to support students in their educational progress.

Enjoy the convention!

**DETAILED AGENDA
FRIDAY JANUARY 27, 2023**

**A SPECIAL THANK YOU TO OUR GOLD, SILVER & BREAK
SPONSORS**

***CRUMPLER PLASTIC PIPE INC GOLD SPONSOR
T & J PANEL INC GOLD SPONSOR***

***ACT CONSTRUCTION EQUIPMENT BREAK SPONSOR
ADVANCE PUMP & EQUIPMENT BREAK SPONSOR
DELLINGER FABRICATION BREAK SPONSOR
DRILLERS SERVICE BREAK SPONSOR
HUGHES PLUMBING AND PUMPS BREAK SPONSOR
NC811 BREAK SPONSOR
POLYLOK BREAK SPONSOR***

**STOP BY THEIR BOOTH TO SAY THANK YOU FOR THEIR
SUPPORT**

6:30 a.m. Check in Desk Opens

CLASS TIME

CLASS TITLE

ROOM

8:00 a.m. – 9:00 a.m.

Seven Deadly Sins

Red Room

We all have made mistakes in our installation work. Many of these gaffes are minor and never become an issue. However, there are some mistakes that will lead to certain septic problems. This presentation will examine seven key areas where seemingly minor errors can and will lead to big headaches in the future.

JONATHAN GODFREY holds a BS in Business Management from NCSU and a Masters of Extension Education from NCSU. Jonathan worked with Chatham County as a REHS and a Program Specialist for 4 years before becoming the Director of Onsite Wastewater Training Program at NCSU. Jonathan also worked for Infiltrator Water Technologies before coming to Marlin Wastewater Services as Operations Manager and as owner of Onsite Wastewater Professionals, an education provider for the industry. Jonathan is currently the Education Director for the North Carolina Septic Tank Association and in his free time, he helps run Olde Carthage Farms, a Certified Organic farm.

Credit Hours: 1 Hour INST, INSP, SUBS, RS, EVALUATOR, LSS

8:00 a.m.-9:00 a.m.

Safety on the Road

Blue Room

Our Industry requires transportation of equipment on the highways and roads of North Carolina, and we are responsible for the safety of our employees and the persons traveling along with us. This presentation gives the information we use to make sure we are in compliance with the North Carolina and Federal laws, and keep us all safe as we drive to our jobs. **Troopers with North Carolina Highway Patrol will be presenting this valuable information**

Credit Hours: 1 Hour INST, INSP, SUBS, P, Evaluator, LSS

CLASS TIME**8:00 a.m.- 9:00 a.m.****CLASS TITLE****Soil Mapping****ROOM****Green Room**

Mapping soil for onsite wastewater systems is a class that will teach students how to identify and map the different types of soil found on a property. This information is critical for the design and installation of onsite wastewater systems, as different soils have different characteristics that can impact the performance of the system

JIM BEESON, is founder of Piedmont Environmental Associates and serves as Managing Principal and Project Manager. Jim's career spans decades with expertise in soil mapping, wastewater system design, installation, and regulatory compliance. Jim is a Licensed Soil Scientist and Certified Evaluator. His works includes producing maximization of lot yield for his clients across North Carolina.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

8:00 a.m. – 9:00 a.m.**Beneath the Backhoe****Yellow Room**

Geotechnical engineering is the branch of civil engineering concerned with the behavior of earth materials, involving soil mechanics, geology, hydrology, and geophysics. Onsite wastewater treatment system installers operate equipment above and near underground structures, sloped ground, and potentially unstable soil. Construction equipment creates a sphere of influence in the underground environment that extends both horizontally and vertically, resulting in a variety of concerns during onsite system installation. While geotechnical engineering is an important aspect of onsite wastewater treatment system construction, the below-ground, out-of-sight aspect should not make it a lesser concern. The objective of this seminar is to increase installers' awareness of the conditions that exist in the subsurface environment during onsite system construction. The discussion covers geotechnical engineering fundamentals as related to onsite system construction, including soil unit weight, earth pressure, stress on buried structures, and slope stability. Soil stress with depth and the lateral extent of stress in soil will be addressed, as well as the effect of static and dynamic stress on buried structures. Publicly available construction videos will be used as case studies to tie the geotechnical engineering concepts to real-life situations.

CARL THOMPSON, PE is responsible for sales, technical services, and government affairs at Infiltrator Water Technologies. Carl is responsible for the operations at Delta Advanced, IWT's advanced/active wastewater treatment unit. Carl is a past president at the National Onsite Wastewater Recycling Association (NOWRA) and currently chairs the government relations committee. Carl received a BS in Mechanical Engineering at Virginia Tech, a Masters in Geotechnical Engineering at Drexel University and received a MBA from the University of Delaware.

Credit Hours: 1 Hour INST, INSP, SUBS, RS, P, LSS, Evaluator

9:00 a.m. – 9:30 a.m.

Opening of 2023 Exposition

Expo Hall

You are invited to participate in one of the largest expositions of on-site wastewater products and services in the United States, right here in Hickory, North Carolina.

Some of the exhibitors will be doing demos during the exhibit hall breaks be sure to stop by those booths for interesting demos.

Exhibitors from equipment manufacturers to service providers wait to greet you and show you what is the newest and best in our Industry.

Stick around to see if you win some valuable door prizes and raffles.

Make sure you buy some tickets for the Cash prize and TV Giveaway. Remember your purchase of raffle tickets aid the NCSTA Scholarship Fund.

**A SPECIAL THANK YOU TO OUR GOLD, SILVER & BREAK
SPONSORS**

***CRUMPLER PLASTIC PIPE INC GOLD SPONSOR
T & J PANEL INC GOLD SPONSOR***

***ACT CONSTRUCTION EQUIPMENT BREAK SPONSOR
ADVANCE PUMP & EQUIPMENT BREAK SPONSOR
DELLINGER FABRICATION BREAK SPONSOR
DRILLERS SERVICE BREAK SPONSOR
HUGHES PLUMBING AND PUMPS BREAK SPONSOR
NC811 BREAK SPONSOR
POLYLOK BREAK SPONSOR***

**STOP BY THEIR BOOTH TO SAY THANK YOU FOR THEIR
SUPPORT**

CLASS TIME

9:30 a.m. – 10:30 a.m.

CLASS TITLE

Pumps, Manifolds, and Mountain Sites

This class will cover the use of pumps, manifolds, and their application in mountain sites. Students will learn about different types of pumps and their appropriate use, as well as the principles of manifold design and installation. The class will also discuss the unique challenges and considerations that must be taken into account when installing and maintaining pump and manifold systems in mountain environments.

ROOM

Red Room

SETH EARLY is a REHS with Land Resource Management with over 16 years in environmental health, including 12 years in County employment and 4 years with Land Resource Management. Seth is a Grade IV installer with the NCOWCICB and currently working to obtain his LSS licensure through NC State University.

Credit Hours: 1 Hour INST, INSP, SUBS, RS, LSS, Evaluator

9:30 a.m. – 10:30 a.m.

Septage Firm

Septage management firms are regulated by the NC Department of Environmental Quality. Learn about regulations regarding permits, licenses, safety measures, and environmental protection. Owners and operators must comply with these regulations to ensure proper handling of septage.

Blue Room

JEFF KERR is the Managing Partner of Marlin Wastewater Services and directs operations that include system installation, inspection, operation and maintenance, system design, soil evaluation, and permitting. Jeff is co-owner of Onsite Wastewater Professionals and currently serves on the Board of Directors for the North Carolina Septic Tank Association.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

REQUIRED CLASS FOR PUMPER AND SLAS PERMIT HOLDERS

CLASS TIME

CLASS TITLE

ROOM

9:30 a.m. – 10:30 a.m.

Improving Permitting: How We Can Help Each Other

Green Room

Understanding the overall goal of permitting can help our industry provide a better product from start to finish. This presentation discusses techniques and ways that the regulatory agents, soil scientists, AOWEs, and installers can work together to improve the process and final product for homeowners. These simple tools can be implemented to ensure the permit is easy to read/understand and the septic system is optimally installed.

SARAH MENSER is a licensed soil scientist, an AOWE, a certified TOS Inspector, and a Subsurface Operator with over 17 years in the onsite wastewater consulting industry. Sarah is the owner of Soil Services PLLC, a consulting company based in Raleigh, NC.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, LSS, Evaluator

CLASS TIME

CLASS TITLE

ROOM

9:30 a.m. – 10:30 a.m.

How It's Made

Yellow Room

Building a quality concrete tank is far more complex than you might think. The concrete mix design, the tank mold design, tank mold maintenance and even the weather all play key roles in production of concrete tanks. This presentation will explore how the tank mold and the concrete mix formula impact the quality of your next concrete tank.

LATT MORETZ is a Past President of the NCSTA and currently sits on the Board of Directors. Latt grew up in the onsite wastewater industry and owns Bethlehem Manufacturing, a truck and precast concrete tank mold manufacturer.

PHILLIP SHOAF is third-generation of family members in the onsite wastewater tank manufacturing business. Phillip is the Operations Manager of Shoaf Precast, Inc., which was established in 1966.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, LSS, Evaluator

10:30 a.m. – 11:00 a.m. Break in the Exhibit Hall

Join your friends in the Exposition Hall for fun, raffles, refreshments, and another chance to see the Best of Show in the Onsite Wastewater Industry. Our vendors and exhibitors came to give your Industry the respect they deserve. Make sure you thank them all for coming! Remember to purchase your tickets for the 50/50 drawing and the TV giveaway. Thanks to all our exhibitors for making this 2023 convention a success.

CLASS TIME

CLASS TITLE

ROOM

11:00 a.m. – 12:00 p.m.

Control Panels Are Coming

RED ROOM

Beginning in January of 2024, North Carolina will begin requiring elaborate control panels on new construction pump systems. These new “Wake / Orange” type panels will bring greater functionality and insight into what our septic systems are doing, but it will undoubtedly bring more challenges. In an effort to prepare our industry and your business to convert these challenges into opportunities we are going learn about the basic components of the Wake / Orange panel and develop a step-by-step approach to troubleshooting these control panels.

JONATHAN GODFREY holds a BS in Business Management from NCSU and a Masters of Extension Education from NCSU. Jonathan worked with Chatham County as a REHS and a Program Specialist for 4 years before becoming the Director of Onsite Wastewater Training Program at NCSU. Jonathan also worked for Infiltrator Water Technologies before coming to Marlin Wastewater Services as Operations Manager and as owner of Onsite Wastewater Professionals, an education provider for the industry. Jonathan is currently the Education Director for the North Carolina Septic Tank Association and in his free time, he helps run Olde Carthage Farms, a Certified Organic farm.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, LSS, Evaluator

CLASS TIME**CLASS TITLE****ROOM****11:00 a.m. – 12:00 p.m.****Septic System Inspector's Role****Blue Room**

The role of the inspector in a septic system inspection is to thoroughly evaluate the condition and proper functioning of a home's septic system. Learn what is required by rule and law and common issues from an industry expert.

JERRY PEARCE is the current President of the NCSTA and sits on the NCOWCICB. Jerry is a second-generation onsite wastewater professional and is a Grade Level IV Installer and Time-of-Sale Inspector and owner/operator of Pearce Environmental.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

11:00 a.m. – 12:00 p.m.**Team Building****Green Room**

This presentation will demonstrate how valuing employee safety and empowering employees in day-to-day decision making translates into a happy workforce and a profitable business.

SUBOL DAS is the owner of Progressive Home Services, LLS. Subol has been working in the plumbing, electrical, and wastewater trades since 1995. He manages several small businesses across the Southeast and holds over 10 trade licenses.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

*****IMPORTANT NOTE: THREE HOURS OF CONTINUING EDUCATION CREDITS HAVE BEEN COMPLETED AT THE CONCLUSION OF THE 11:00 a.m. – 12:00 p.m. CLASSES. IF YOU ONLY NEED THREE HOURS YOU HAVE COMPLETED THOSE HOURS. YOUR ATTENDANCE CERTIFICATES ARE AVAILABLE FOR PICK UP IN THE EXHIBIT HALL.**

YOU MUST PICK UP YOUR CERTIFICATE DUPLICATES ARE NOT AVAILABLE AFTER THE EVENT***

12:00 p.m. – 1:00 p.m. LUNCH BREAK ON YOUR OWN

The Exhibit Hall will remain open during the Lunch hour, an excellent opportunity to investigate the new technologies at a slower pace and to gather the information that has been offered today.

Several restaurants are located close by the convention center. The visitor center has all the current info.

Be sure to arrive for door prizes given away before going back to class. You must be present to win!

CLASS TIME

1:00 p.m. – 2:00 p.m.

CLASS TITLE

Sewer Ain't Coming: Onsite Systems & Permanent Infrastructure

ROOM

Red Room

The onsite industry is in an existential fight for its survival. The municipal sewer industry has most government agencies, the media, developers, and environmentalists all on its side. We have only ourselves, our work, and actual environmental stewardship on ours. This talk highlights some of those overarching issues. This discussion also gives a hard look at some of our practices that we need to resolve in order to not give our opponents ammunition.

STEVE BARRY is a Grade IV Biological, Subsurface, and Spray Irrigation Operator and currently sits on the Water Pollution Control Systems Operator Certification Commission (WPSCSOCC). Steve owns AQWA which he established with his father in Wilson, NC. AQWA sells and services Advantex treatment systems in the Carolinas and Virginia.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

CLASS TIME

1:00 p.m. -2:00 p.m.

CLASS TITLE

Land Application Rule Review & Compliance

This presentation places an emphasis on Land Application Rules, Techniques, and how to make sure your site is compliant with the Land Application permit.

ROOM

Blue Room

BOB RUBIN is a professor emeritus at NCSU and has over 50 years of experience in beneficial use of waste. He is the author or co-author of publication on land treatment, environmental science, and public health. Dr. Bob is a long-time supporter of the NCSTA and a national speaker on all things on-site. Bob is a past appointee to the Environmental Management Commission and currently sits on the Water Pollution Control System Operator Certification Commission.

THIS PRESENTATION IS REQUIRED FOR LAND APPLICATION SITE OPERATORS.

Credit Hours: 1 hour INST, INSP, SUBS, P, SLAS, Evaluator, LSS

REQUIRED CLASS FOR SLAS PERMIT HOLDERS

***** This section of classes concludes the hours requirement for those that need hours for pumper and SLAS only. PLEASE PICK UP YOUR ATTENDANCE CERTIFICATE IN THE EXHIBIT HALL*****

CLASS TIME**1:00 p.m. – 2:00 p.m.****CLASS TITLE****Sewage System Design and Construction Considerations for Marginal Sites**

Advances in sewage treatment and dispersal technologies have allowed for installation of sewage systems in sites that would never have been considered in the past. Most of these proposed sites require special considerations during the evaluation, design, and construction phases. This presentation will discuss critical control factors for marginal sewage system evaluation, design, and installation.

PAM PRUETT is a Virginia Tech graduate with over 30 years in the onsite wastewater industry. Pam worked with the Virginia Department of Health in an urban county in Virginia as their Alternative Sewage System program manager. Pam later worked with an engineering firm as their Sewage System Design Manager specializing in commercial and alternative wastewater system designs. Pam went on to be the founder of Environmental Services Consulting, LLC where she continues to work. Pam is licensed in Virginia in their Master level Site Evaluator and in the Master Alternative Sewage System Operator program. Pruett is the current chairperson of both the VDH Sewage Handling and Disposal Appeals Board and the Virginia Department of Professional and Occupational Regulation Board for Waterworks and Wastewater Works Operators and Sewage System Professionals.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, LSS, Evaluator

ROOM**Green Room****1:00 pm. -2:00 p.m.****GPS/GIS****Yellow Room**

GPS (Global Positioning System) and GIS (Geographic Information System) technology are tools that allow septic system installers, soil scientists, engineers and designers to accurately locate and map out septic systems. GPS uses satellite technology to pinpoint the precise location of a system, while GIS allows for the creation of digital maps and the analysis of data. Learn how these tools can improve the efficiency and effectiveness of your business. These tools can be used to track and organize locations of systems, where your trucks are, and where you've been before on job sites. You will be surprised how affordable these tools are.

JEFF KERR is the Managing Partner of Marlin Wastewater Services and directs operations that include system installation, inspection, operation and maintenance, system design, soil evaluation, and permitting. Jeff is co-owner of Onsite Wastewater Professionals and currently serves on the Board of Directors for the North Carolina Septic Tank Association.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

2:00 p.m. – 2:30 p.m. Break in Exhibit Hall

Get your tickets for change to win TV and 50/50 cash drawing

**A SPECIAL THANK YOU TO OUR GOLD, SILVER & BREAK
SPONSORS**

***CRUMPLER PLASTIC PIPE INC GOLD SPONSOR
T & J PANEL INC GOLD SPONSOR***

***ACT CONSTRUCTION EQUIPMENT BREAK SPONSOR
ADVANCE PUMP & EQUIPMENT BREAK SPONSOR
DELLINGER FABRICATION BREAK SPONSOR
DRILLERS SERVICE BREAK SPONSOR
HUGHES PLUMBING AND PUMPS BREAK SPONSOR
NC811 BREAK SPONSOR
POLYLOK BREAK SPONSOR***

**STOP BY THEIR BOOTH TO SAY THANK YOU FOR THEIR
SUPPORT**

CLASS TIME

CLASS TITLE

ROOM

2:30 p.m. – 3:30 p.m.

Privatization Roundtable

Red Room

A glimpse into the onsite wastewater industry, specifically focusing on pricing, employee compensation, and other costs associated with sustaining a business in this field. We will be exploring these topics in depth to provide a better understanding of the challenges and opportunities facing the industry. Our goal is to provide valuable insights that can inform strategic decision-making for businesses within the onsite wastewater industry.

JONATHAN GODFREY holds a BS in Business Management from NCSU and a Masters of Extension Education from NCSU. Jonathan worked with Chatham County as a REHS and a Program Specialist for 4 years before becoming the Director of Onsite Wastewater Training Program at NCSU. Jonathan also worked for Infiltrator Water Technologies before coming to Marlin Wastewater Services as Operations Manager and as owner of Onsite Wastewater Professionals, an education provider for the industry. Jonathan is currently the Education Director for the North Carolina Septic Tank Association and in his free time, he helps run Olde Carthage Farms, a Certified Organic farm.

JEFF KERR is the Managing Partner of Marlin Wastewater Services and directs operations that include system installation, inspection, operation and maintenance, system design, soil evaluation, and permitting. Jeff is co-owner of Onsite Wastewater Professionals and currently serves on the Board of Directors for the North Carolina Septic Tank Association.

PAM PRUETT is a Virginia Tech graduate with over 30 years in the onsite wastewater industry. Pam worked with the Virginia Department of Health in an urban county in Virginia as their Alternative Sewage System program manager. Pam later worked with an engineering firm as their Sewage System Design Manager specializing in commercial and alternative wastewater system designs. Pam went on to be the founder of Environmental Services Consulting, LLC where she continues to work. Pam is licensed in Virginia in their Master level Site Evaluator and in the Master Alternative Sewage System Operator program. Pruett is the current chairperson of both the VDH Sewage Handling and Disposal Appeals Board and the Virginia Department of Professional and Occupational Regulation Board for Waterworks and Wastewater Works Operators and Sewage System Professionals.

JIM BEESON, is founder of Piedmont Environmental Associates and serves as Managing Principal and Project Manager. Jim's career spans decades with expertise in soil mapping, wastewater system design, installation, and regulatory compliance. Jim is a Licensed Soil Scientist and Certified Evaluator. His works includes producing maximization of lot yield for his clients across North Carolina.

DOUG LASSITER is a graduate of UNC-Chapel Hill with a BS in Business Administration. Doug is a former co-owner of High Point Precast and a member of the National Precast Concrete Association where he was a former member of their Water/Wastewater Committee. Doug is a Past President of the NCSTA and currently their Lobbyist and Executive Director.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

CLASS TIME

CLASS TITLE

ROOM

2:30 p.m. – 3:30 p.m.

Operation & Maintenance of Wastewater Systems

Blue Room

Proper management and operation of onsite wastewater systems is essential to ensure the health and safety of the community and the environment. In this presentation, we will discuss the various types of onsite wastewater systems, their proper installation and maintenance, and how to troubleshoot and resolve common issues that may arise. We will also discuss the importance of regular inspections and the role of the homeowner in maintaining the system.

DAVID SWINNEY worked as a County Regulator for over 19 years specializing in the operations and maintenance of various types of systems, from ocean-front mansions to small residences in areas of poor soil. David is certified by NCOWCICB as a Grade IV Installer/TOS Inspector, a Subsurface and Grade II Biological Operator under WPCSOCC, and currently sits on the Board of Directors of NCOWCICB.

Credit Hours: 1 Hour INST, INSP, SUBS, RS, EVALUATOR, LSS

2:30 p.m. – 3:30 p.m.

Using Regulations, Available Technologies, and Creative Design to Maximize Properties Potential

Green Room

This presentation will explore how designers, engineers, regulators and soil scientists can use a combination of regulations, available technologies, and creative design to maximize the potential of their properties. We will discuss the importance of understanding and adhering to relevant regulations, and how this can not only ensure compliance, but also enhance the value and functionality of a wastewater system. We will examine the various technologies that are currently available and how they can be leveraged to improve the efficiency and performance of a system.

GARY MacCONNELL, PE is President of MacConnell & Associates and Green Global Technologies. Gary has been practicing engineering for 38 years with a focus on wastewater treatment and on-site systems. Gary and his firm is a member of the NCSTA and a favorite speaker at our conferences.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

CLASS TIME

CLASS TITLE

ROOM

2:30 p.m. – 3:30 p.m.

Water Reuse – Opportunities for Onsite

Yellow Room

The citizens of North Carolina may soon face some critical Water management challenges. New businesses and industries are locating here that will demand sustainable sources of water. Both NCDEQ and NCDHHS have provisions in respective rules recognizing opportunities for water reuse. Management and operation of these systems is critical and many of those operators will come from your ranks. Let's be ready for that challenge.

BOB RUBIN is a professor emeritus at NCSU and has over 50 years of experience in beneficial use of waste. He is the author or co-author of publication on land treatment, environmental science, and public health. Dr. Bob is a long-time supporter of the NCSTA and a national speaker on all things on-site. Bob is a past appointee to the Environmental Management Commission and currently sits on the Water Pollution Control System Operator Certification Commission.

Mike Stidham is Vice-President of E-Z Treat, Inc., and has participated in Model Code committees, including NOWRA, and served on the Board of Directors of the Virginia Onsite Wastewater Association. He currently sits on the Onsite Wastewater Advisory Committee for the Arizona Dept. of Environmental Quality.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

3:30 p.m. – 4:00 p.m.

Break in Exhibit Hall

Last chance to get your tickets for the TV and 50/50 cash drawing

CLASS TIME**4:00 p.m. – 5:00 p.m.****CLASS TITLE****Industry Survey****ROOM****Red Room**

Understanding the cost of doing business Are we working too cheap? Are we overcharging? The industry survey is an interactive exploration of everything from labor cost, to final job pricing across NC. The purpose is not only to be more profitable on our next job, but also to understand how well is our industry positioned to handle the challenges and opportunities of tomorrow. Who are we? What do we charge? How do we as an industry value the services we provide?

What can we be in the future?

JONATHAN GODFREY holds a BS in Business Management from NCSU and a Masters of Extension Education from NCSU. Jonathan worked with Chatham County as a REHS and a Program Specialist for 4 years before becoming the Director of Onsite Wastewater Training Program at NCSU. Jonathan also worked for Infiltrator Water Technologies before coming to Marlin Wastewater Services as Operations Manager and as owner of Onsite Wastewater Professionals, an education provider for the industry. Jonathan is currently the Education Director for the North Carolina Septic Tank Association and in his free time, he helps run Olde Carthage Farms, a Certified Organic farm.

JEFF KERR is the Managing Partner of Marlin Wastewater Services and directs operations that include system installation, inspection, operation and maintenance, system design, soil evaluation, and permitting. Jeff is co-owner of Onsite Wastewater Professionals and currently serves on the Board of Directors for the North Carolina Septic Tank Association.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

4:00 p.m. – 5:00 p.m.**The Road Ahead****Blue Room**

The Onsite Wastewater Industry has taken positive strides to assure the growth and sustainability of the industry. This Presentation discusses the recent activity of the Industry in NC and how the options available to the onsite wastewater sectors in NC can benefit us in the next 5 years. The economic forecasts and possible legislative and rule changes are on the table, and proper intelligent decisions can maximize the success of onsite wastewater.

DOUG LASSITER is a graduate of UNC-Chapel Hill with a BS in Business Administration. Doug is a former co-owner of High Point Precast and a member of the National Precast Concrete Association where he was a former member of their Water/Wastewater Committee. Doug is a Past President of the NCSTA and currently their Lobbyist and Executive Director.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

CLASS TIME**CLASS TITLE****ROOM****4:00 p.m. – 5:00 p.m.****Bridging The Gap: Soils to Engineering****Green Room**

This presentation will provide a perspective as a department manager who works for a consulting firm which is often working with engineers, soil scientists, clients, regulators, and installation contractors. We'll discuss the good, bad, and ugly of seeing projects from multiple viewpoints and how to balance the expectations of all parties involved.

CHRIS MCGEE is a licensed soil scientist with AWT (Advanced Wastewater Technology since 2005. Chris is currently a project and division manager and helps to train and lead a staff of 20 employees, mostly engineers and soil scientists, working in all aspects of onsite wastewater and stormwater.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, EVALUATOR, LSS

4:00 p.m. – 5:00 p.m.**Installation & Inspection of Precast Concrete Wastewater Treatment Tanks****Yellow Room**

The precast concrete tank manufacturer is responsible for supplying a structure that meets and exceeds the applicable requirements. The tank was designed and produced to perform effectively during a long-life cycle. That responsibility eventually shifts to the installer and service provider. The contractor installing the tank must follow best practices to ensure the tank is properly bedded, connected, backfilled and the risers and lid are properly installed. The service provider or inspector must perform periodic inspections of the entire system which includes the tank. They must be able to properly assess the tank condition and functionality. These are the topic we will thoroughly go over during this session. We will share best practices and tips we've gained from our over 400 wastewater tank producer members, countless installers, service providers, inspectors and regulators to you ensure the tank performs to its potential.

CLAUDE GOGUEN holds a degree in Civil Engineering and is a licensed PE in Indiana. Claude is the head of technical services with the National Precast Concrete Association and has focused on the onsite wastewater product market.

Credit Hours: 1 Hour INST, INSP, P, SUBS, RS, LSS, Evaluator

REMEMBER TO TURN IN YOUR
ATTENDANCE CARD AND PICK UP
YOUR ATTENDANCE CERTIFICATE.
CERTIFICATES ARE IN IN THE
EXHIBIT HALL.

DUPLICATE ATTENDANCE
CERTIFICATES ARE NOT AVAILABLE
AFTER EVENT.

NCSTA would like to thank
all the vendors, sponsors, speakers, and attendees
for supporting the industry
and NCSTA

"33rd Annual Convention & Expo
VENDORS"

G O L D S P O N S O R S

CRUMPLER PLASTIC PIPE

T & J PANEL

S I L V E R S P O N S O R

MOBA CORPORATION

BREAK SPONSORS

ACT CONSTRUCTION EQUIPMENT

ADVANCE PUMP & EQUIPMENT

DELLINGER FABRICATIONS

DRILLERS SERVICES

HUGHES PLUMBING AND PUMPS

NC811

POLYLOK

EXHIBITORS

Act Construction Equipment

Mark Nelson 704-770-8767

mnelson@actce.com

www.actce.com

Advance Pump & Equipment

Randy Tischendorf 563-581-1685

randy@advancepump.com

www.advancepump.com

Agri-Waste Technology Inc

Jeff Vaughan 919-859-0669

jvaughan@agriwaste.com

www.agriwaste.com

Alphagraphics

Wes Carpenter 336-970-1655

icaprener@alphagraphics.com

www.alphagraphics.com

American Manufacturing

Alan Kidwell 434-907-0130

akidwell@americanonsite.com

www.americanonsite.com

Atlanta Rubber & Hydraulics

Chris Poole 404-958-2548

cgray@atlantarubber.com

www.atlantarubber.com

Benchmark Tool & Supply

Adam Leviner 919-600-4353

marketing@benchmarksupply.com

www.benchmarksupply.com

Concrete Sealants

Frank Palas 412-389-1607

ccurtis@conseal.com

www.conseal.com

Crumpler Plastic Pipe Inc Houston Crumpler 800-334-5071

cppsales@cpp-pipe.com

www.cpp-pipe.com

Dellinger Fabrication Gabe Dellinger 704-201-4080

sales@dellingerfabshop.com

www.dellingerfab.com

Drillers Service Inc. Jason Lamb 828-322-1100

Taylor.johnson@dsidsi.com

www.dsidsi.com

Eljen Corporation Scott Moore 203-597-7275

smoore@eljen.com

www.eljen.com

EZ Treat Mike Stidham 703-408-2916

mstidham@eztreat.net

www.eztreat.net

Hughes Plumbing and Pumps **Russell Rauch 704-363-1378**

Russell.rauch@hughessupply.com

www.hughessupply.com

Imperial Industries, Inc.

Cory Schriebech 800-558-2945

rmenge@imperialind.com

www.imperialind.com

Infiltrator Water Technologies

Donna Fiorentino 800-221-4436

info@infiltratorwater.com

www.infiltratorwater.com

James River Equipment

Tyler Daly 704-280-1419

Kyle.cohoon@jamesriverequipment.com

www.Jamesriverequipment.com

MacConnell & Associates

Gary MacConnell 919-467-1239

gary.macconnell@macconnellandassoc.com

Moba Corporation

Brian Abernathy 470-653-8838

babernathy@moba.de

www.mobacorp.com

National Precast Concrete Association

Claude Goguen 317-223-9918

cgoguen@precast.org

www.precast.org

NC Highway Patrol

Trooper Jeffrey Swagger 828-851-6570

Jeffrey.swagger@ncdps.gov

www.ncdps.gov

NC 811

Tami Stout 336-601-8644

tami@nc811.org

www.nc811.org

Piedmont Environmental Associates

Jim Beeson 336-706-5063

Info@piedmontsoil.com

www.piedmontsoil.com

PolyJohn

Eric Graeber 219-293-1980

info@polyjohn.com

www.polyjohn.com

Polylok

Linda Malone 860-227-9949

linda@polylok.com

www.polylok.com

Preferred Pump

Ryan Buckner 864-770-5945

rbuckner@preferredpump.com

www.preferredpump.com

Price Marketing

Jerry Jenkins 919-815-1151

jp@pricemarketing.com

www.pricemarketing.com

PRINSCO

Todd Harrell 336-341-1007

Todd.harrell@prinsco.com

www.prinsco.com

RIC A Bankers Insurance Co

Katherine Hall 336-932-9781

khall@bankersinsurance.net

www.bankersinsurance.net/ncsta

Snider Inc.

Dana Jones 704-588-0915

djones@sniderinc.com

www.sniderinc.com

T & J Panel

Brad Johnson 704-924-8600

brad@tjpanel.com

www.tjpanel.com

Transit and Level Clinic Charles Clausen 828-712-7412

sales@transitandlevel.com

www.transitandlevel.com

Watercore

Mike Hornback 502-724-2231

watercorellc@gmail.com

Zoeller Pump

Wes Combs 859-433-0036

wesc@zoeller.com

www.zoeller.com

(Due to print cutoff date there may be vendors in attendance that were not listed above)

For questions about installer, inspector or evaluator certification please visit the NCOWCICB desk located next to the registration desk. Connie Stephens will be available at the NCOWCICB desk at the following times during the convention:

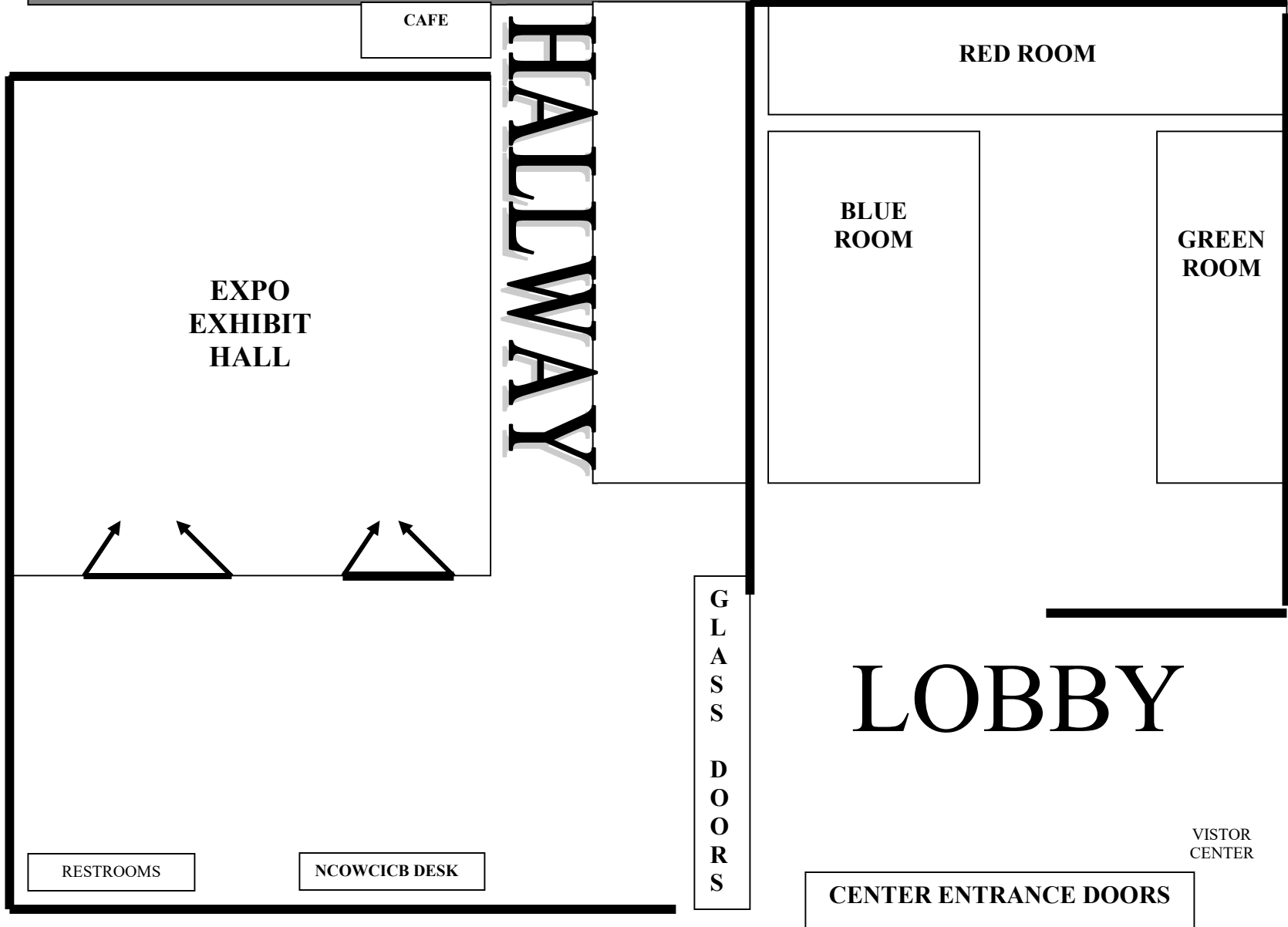
**FRIDAY January 27, 2023 12:00 p.m. – 1:00 p.m.
2:00 p.m. - 2:30 p.m.**

A self-check book has been placed at the desk for you check the status of your certification. This list has all those that are current with their certifications listed. If your name is not on this list NCOWCICB has not received your renewal for 2023 or your completed application for certification with supporting documents.

The following forms have been placed on this desk for anyone that needs them:

- **2023 renewal forms**
- **NCOWCICB Application for Certification**
- **NCOWCICB Application for Certification Business Succession**
- **NCOWCICB Application for Re-certification**
- **NCOWCICB Exam Application (the next exam is offered 2/17/23 in Clemmons)**

CONVENTION CENTER MAP



CAFE

HALLWAY

EXPO
EXHIBIT
HALL

RED ROOM

BLUE
ROOM

GREEN
ROOM

LOBBY

RESTROOMS

NCOWCICB DESK

GLASS
DOORS

CENTER ENTRANCE DOORS

VISTOR
CENTER

Notes:

Notes:

Notes:

**Thank you for attending the
NCSTA 33rd Annual Convention & Expo**

**We hope that 2023 is a prosperous, healthy,
successful and safe year for each of you!!!!!!**



WWW.NCSTA.NET

EMAIL: NCSEPTICTANK@GMAIL.COM

PHONE: 336-416-3564