

NCSTA
22nd Annual
Convention and Expo

”2012 Survival On-Site”

DETAILED AGENDA

(you will receive a printed detailed agenda upon arrival at convention this is simply for your planning purposes)

THURSDAY JANUARY 26, 2012

6:30 a.m. Registration Desk Opens

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
7:30 a.m. – 8:30 a.m.	Land Application Solutions Dr. Bob Rubin , Professor Emeritas from the biological and agricultural engineering department of NC State University, conducts business as A.R. Rubin and Associates. His background includes work with the EPA and is a nationally recognized speaker and currently works with NSF International, WEF, WERF, and the National Biosolids Partnership. Dr. Rubin speaks on the issues concerning phosphorus in land application sites. This presentation is for Land Application credits only. 1 Hour Credit	Dr. Bob Rubin	Green Room
8:30 a.m. – 9:00 a.m.	Getting Around the Convention Details of the convention, who, what, where, when and how. All attendees should be in this session	Jerry Pearce, NCSTA President	Opening Room
9:00 a.m. – 10:00 a.m.	WELCOME TO THE INDUSTRY A friend and supporter of the onsite wastewater industry, Dr. Rubin returns and provides insight into the future of onsite or decentralized wastewater systems and their management. Bob's national recognition has enabled him to view the industry from other States and how the industry will change after our economic troubles. Dr. Rubin focuses on the leadership and business input that will steer the onsite professionals into tomorrow. Credit Hours: 1 hour P, INST, INSP, SUBS, RS	Dr. Bob Rubin	Opening Room

10:00 a.m.

22nd Annual Exposition Opens

Please join your friends and partners in the Exposition Hall. These Supporters of the NC Septic Tank Association are critical in our Industry. They provide the necessary products and services that will speed recovery in our businesses. Door Prizes will be drawn during each break . The ticket you were given at the door is good all day for door prizes.

SILVER SPONSORSHIP: Southeast Sewer Fabrication LLC

BREAK SPONSOR: Crumpler Plastic Pipe

VISIT THEIR BOOTH TO SAY THANK YOU

CLASS TIME

CLASS TITLE

SPEAKER

ROOM

10:30 a.m. – 11:30 a.m. Understanding Practical Business Cost

Robert F. McHugh

Blue Room

Robert F. McHugh, Chief Financial Officer for Infiltrator Systems Inc., leads financial operations at Infiltrator and provides oversight to many of the manufacturing operations. Bob has extensive experience in resource coordination for emerging growth companies in areas of manufacturing, distribution, and technology. Bob received a Bachelor's Degree in Business Administration, majoring in accounting, from the University of Central Florida
Bob will discuss the practical business needs that start with identifying and factoring costs into our pricing structure and contractual bids. The discussion will include economic outlooks for the industry.
Credit Hours: 1 hour P, INST, INSP, SUBS, REHS

10:30 a.m. – 11:30 a.m. Horizon Technology: Passive Dispersal & Treatment Benefits

Green Room

Sean McGuigan

Sean McGuigan has 22 years of experience with the wastewater treatment industry. Sean currently performs research and development for Presby Environmental, Inc. based in New Hampshire. Sean is licensed as a Site Evaluator in Maine and a Designer/Installer in New Hampshire.
This is first of a series of "Horizon Technologies" that will be presented at this Convention. "Horizon Technologies" have been identified as approved for use in the United States but not yet approved for general use in North Carolina.
This presentation will be an introduction into a next generation of wastewater system: Passive Dispersal of effluent with third-party verified treatment benefits. Basic treatment without mechanical or powered treatment components.
Credit Hours: 1 hour P, INST, INSP, SUBS, REHS

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
10:30 a.m. – 11:30 a.m.	It's Not the Flow, It's The Strength: Factoring Organic Loading	Tricia Angoli	Red Room
	<p>Tricia Angoli has Bachelors and Masters Degrees in Civil Engineering from West Virginia University. She has worked for the National Small Flows Clearinghouse and in the private sector dealing with onsite wastewater systems and small community subsurface wastewater designs. Tricia is currently an engineer in the Onsite Water Protection Branch of NC DHHS. The presentation focuses on the importance of wastewater strength and characteristics when designing an onsite wastewater system. Credit Hours: 1 hour, P, INST, INSP, SUB, REHS</p>		
11:30 a.m. – 12:30 p.m.	EXHIBIT HALL BREAK AND LUNCH BREAK ON YOUR OWN STOP AT REGISTRATION DESK OR VISTOR CENTER FOR INFORMATION ON LOCAL RESTURANTS		

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
12:30 p.m. – 1:30 p.m.	Safety and Compliance	NCSHP	Blue Room
	<p>North Carolina State Highway Patrol returns to provide updates and field your questions on road safety and compliance issues. Always a well-attended class, this presentation concerns everyone in the Industry, whether you manufacture, install, or service. Credit Hours: 1 Hours, P, INST, INSP, SUBS, REHS</p>		

CLASS TIME

12:30 p.m. – 1:30 p.m.

CLASS TITLE

Case Study: Permitting A Moving Target Wastewater System

SPEAKER

Heath Ward Guilford Co. Envir. Health

Darrian Creed, PE, Hugh Creed Associates

ROOM

Green Room

Heath Ward is currently an Environmental Health Specialist with Guilford County Department of Public Health and received a Bachelor's Degree in Natural Resource Management from Western Carolina University and has more than 20 hours of graduate level study in Soil Science from NC A&T. Heath has more than 18 years in the onsite wastewater industry as an environmental health specialist.

Darrian Creed, Hugh Creed Associates,

This presentation deals with an actual permitting of a commercial multi-use site that became a continuing expansion causing reconsideration of the permit and a real test of interaction between the owner(s), designers, contractors, and the regulatory agency.

Credit Hours: 1 Hour, P, INST, INSP, SUBS, REHS

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
12:30 p.m. – 2:00 p.m.	What is a Triennial Review: Will Treatment Plant Disposal End?	Martie Groome, City of Greensboro	Red Room
	<p>Martie Groome received a Bachelor of Science Degree from UNC-G and holds a Grade IV Wastewater Operators Certificate and is a Class IV Certified Environmental Analyst in North Carolina, and a Level A Industrial Pretreatment Certification in the State of Florida. She is also licensed to practice as a Registered Nurse in North Carolina. Martie is vice-chair of the National Association of Clean Water Agencies (NACWA) Pretreatment and Pollution Prevention Committee, and is chairperson of the North Carolina AWWA/WEA Laboratory Analyst Certification Board. Martie was owner of Carolina Laboratories from 1979-1994, a state-certified wastewater laboratory and environmental consulting firm. Currently, Martie is employed by the City of Greensboro and is their Laboratory and Industrial Waste Section Supervisor in the Water Resources Department. In that capacity, she serves as the Compliance Officer for the City’s two NPDES permits and supervises the Industrial Waste Pretreatment Program and the Laboratory Section. She is active in the North Carolina Pretreatment Consortium.</p> <p>This presentation could touch our entire onsite wastewater industry. The federal Clean Water Act requires the State to review water quality standards every three years (“Triennial Review”). The EPA has developed changes to standards involving wastewater characteristics from discharges from treatment plants. These changes, if adopted, could cause many wastewater treatment plants to restrict future acceptance of septic tank pumps. Martie Goome has offered to provide information to the NCSTA so that we may urge the State not to adopt these new standards.</p> <p>Credit Hours: 1.5 hours, P, INST, INSP, SUBS, REHS</p>		
1:30 p.m. –2:00 p.m.	Exhibit Hall Break for Blue and Green Room Attendees (remember your door prize ticket)		
2:00 p.m. – 3:00 p.m.	Septage Firm Rules	Michael Scott	Green Room
	<p>Tony Gallegher, Solid Waste Section, Division of Waste Management discusses the current Rules for Septage Firm companies in North Carolina. This class is mandatory for all attending permitted Septage Firms (Pumpers). This class concludes the 4 hours requirement for those that need hours for <u>pumper only</u>.</p> <p>Credit Hours: 1 Hour, P, INST, INSP, SUBS, REHS</p>		

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
2:00 p.m. – 3:00 p.m.	Pumps: Sizing and Troubleshooting	Al Milliken	Blue Room
	<p>Al Milliken, Southeast Sewer Fabrication, presents an overview of the features of pressure dispersal systems and some of the common troubleshooting questions usually found in the field. Al returns as one of the favorite speakers in the industry, blending professional expertise with humor and common-sense.</p> <p>Credit Hours: 1 Hour, P, INST, INSP, SUBS, REHS</p>		
2:00 p.m. – 2:30 p.m.	Exhibit Hall Break for Red Room Attendees (remember your door prize ticket)		
2:30 p.m. – 5:00 p.m.	Safety in Excavation & Trenching	Doug Barnes	Red Room
	<p>Doug Barnes has been in the shoring industry for eight years with Coble Trench Safety, Inc. Doug is currently the Training Coordinator for Coble Trench Safety and assists with the training duties and assists customers with the installation of technical shoring products over the eleven State regions covered by Coble Trench Safety.</p> <p>Credit Hours: 2.5 hours, INST, INSP, SUBS, REHS</p>		
3:00 p.m. – 4:00 p.m.	Fats, Oils and Greases: Design & Performance		Blue Room
	Leon Holt & Jim Lanier		
	<p>Leon Holt remains a national authority on the problems and effective solutions brought by Fats, Oils, and Greases. Leon gained attention with his development of a successful FOG program in Cary, NC. His work now includes involvement with WERF and other jurisdictions seeking resolution of FOG into the wastewater infrastructure.</p> <p>Jim Lanier is owner of Stanley Environmental Solutions, Inc. and installs commercial wastewater systems, services restaurant grease tanks, industrial waste and residential systems. Jim also owns Earth Farms Organics, a grease trap waste recycling and compost facility.</p> <p>This presentation presents possible solutions to the problems involved with FOG. This begins with the identification of quantities and waste characteristics, moving to the design of the system, the operations and management, regulatory oversight, and disposal or reuse. Included is a discussion of restrictions to land application sites from a regulatory and agricultural aspect.</p> <p>Credit Hours: 1 Hour, INST, INSP, SUBS, REHS, SLAS</p>		

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
3:00 p.m. – 4:00 p.m.	Getting What’s Due, When It’s Due	Matthew Hurley	Green Room
	<p>Matthew Hurley, discusses the challenges of collecting Accounts Receivable in tough economic times. This topic is no stranger to any of us, and Matthew offers a professional view on how to apply sound collections and business preparation to better protect your assets. Matthew was formerly with Transworld Systems and continues to provide business consulting services for small businesses seeking to improve their bottom line.</p> <p>Credit Hours: 1 Hour, P, INST, INSP, SUBS, REHS</p>		
4:00 p.m. – 5:00 p.m.	Case Study: Nutrient Removal In Critical Watersheds		Blue Room
	<p style="text-align: center;">Gary MacConnell</p> <p>Gary MacConnell, PE is President of MacConnell and Associates. Gary has been active and an advocate for onsite wastewater systems in North Carolina, South Carolina, Virginia, and other States as far away as Montana. This case study involves activity to develop a demonstration of onsite wastewater capabilities in the critical watersheds of the Jordan Lake, Falls of the Neuse. The site involves nutrient removal, phosphorus reduction, pathogen removal and direct discharge. Such systems will enable qualified contractors to provide compliant residential wastewater systems under the stricter parameters found in such watersheds.</p> <p>Credit Hours: 1 Hour, INST, INSP, SUBS, REHS</p>		
4:00 p.m. – 5:00 p.m.	Make It A Safe Dig! Call 811	George Bloodworth	Green Room
	<p>George Bloodworth, North Carolina 811, Inc. is a Fayetteville, NC native and currently resides with his wife in Jefferson, NC. George has extensive experience in the telephone communication industry and served on the Board of Directors with the North Carolina One-Call System (now known as North Carolina 811, Inc.). This presentation offers assistance with locating underground utilities and avoiding dangerous situations with simple communication. In an industry virtually dependent on excavation of components, this service is a no-brainer.</p> <p>Credit Hours: 1 Hour INST, INSP, SUBS, REHS</p>		

Alive at 5

Reception

OPEN TO ALL EVENT ATTENDEES

**DON'T GO RUNNING OUT THE DOOR . . . STICK AROUND AND
HAVE SOME FUN.**

FINGER FOODS AND CASH BAR

50/50 CASH DRAWING

TV GIVEAWAY AND DOOR PRIZES

(YOU MUST BE PRESENT TO WIN)

FRIDAY JANUARY 27, 2012

6:30 a.m. Registration Desk Opens

7:00 a.m. – 8:00 a.m. NCSTA Member Continental Breakfast & Annual Business Meeting

8:00 a.m. – 3:30 p.m. Exhibit Hall Open

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
8:00 a.m. – 9:00 a.m.	Land Application Rules	Tony Gallegher	Green Room

Tony Gallegher, Environmental Supervisor, Solid Waste Section and his team from the **Division of Waste Management** discuss the Rules and Regulations for septage land application sites. One of the required classes for the site operators, this is a valuable class for protecting your site conditions and your permit. **This presentation is for Land Application credits only.**

Credit Hours: 1 hour SLAS

8:00 a.m. – 9:00 a.m.	Advanced Treatment Systems	Michael Burch	Blue Room
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Michael Burch is President of Nature Works, Inc. in Burgess, Virginia. Michael has been a friend of the onsite wastewater community for several years and currently works with Bio-Microbics and their MicroFast and Fast units.

This presentation offers the technologies available to reduce wastewater strengths so that a previously restrictive site can be developed. These technologies will usher in a new generation of designer, installer, and service provider.

Credit Hours: 1 Hour, INST, INSP, SUBS, REHS

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
9:00 a.m. - 9:30 a.m.	Exhibit Hall Break (Door Prizes given at each break the ticket you received at door is good all day you must be present to win)		
9:30 a.m. – 11:30 a.m.	Confined Space Safety	Doug Barnes	Blue Room
	<p>Doug Barnes, Training Coordinator with Coble Trench Safety, presents this presentation of Confined Space issues. Construction and Management of onsite wastewater systems consistently involve the dangers of confined space and knowledge of these hazards, the regulations imposed on employers, and reliable solutions are essential for all members of the industry.</p> <p>Credit Hours: 2 Hours, INST, INSP, SUBS, REHS</p>		
9:30 a.m. 10:30 a.m.	Horizon Technologies: ReUse Water Resources	Randall Nelson	Green Room
	<p>Randall Nelson is Vice-President of Product Development for ReUse Innovations, Inc. based in Franklin, NC. Randall discusses the technology concerning membrane bioreactors (MBR's) and how this state-of-the-art treatment can be used for highly efficient reduction of wastewater strengths and produce a much higher quality discharge. The technology can be used for a variety of applications, from single-family residence to industrial/commercial to small community systems. The resulting effluent is easily adaptable to reclaim/reuse systems.</p> <p>Credit Hours: 1 Hour, INST, INSP, SUBS, REHS</p>		
10:30 a.m. – 11:30 a.m.	Rules Updates for ReUse Water Sources & Recycling		Green Room
	<p style="text-align: center;">Nathaniel Thornburg NCDWQ</p> <p>Nathaniel Thornburg is an Environmental Engineer in the Aquifer Protection Section-Land Application Unit of the Division of Water Quality, DENR. This presentation deals with the Current and Future Uses of Reclaimed Water in North Carolina. Nathaniel has 11 years of experience as an Environmental Engineer and focuses on the non-discharge permitting and compliance program. Nathaniel is the former manager of the Aquifer Protection Section Express Review Program.</p> <p>Credit Hours: 1 Hour, INST, INSP, SUBS, REHS</p>		

**11:30 a.m. – 12:30 p.m. Exhibit Hall Breakout & Lunch Break – Pick up a list of restaurants at registration desk
(Remember your door prize ticket)**

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
12:30 p.m. –1:30 p.m.	Case Study: Unusual Effluent Characteristics: The SPA		Blue Room

Mark Brooks, PE

Mark Brooks, PE is President of Brooks Engineering Associates of Asheville, NC. and is licensed in North and South Carolina. He received a Bachelor’s Degree in Economics from UNC-CH and a Master’s Degree in Civil/Environmental Engineering from Montana State University. His background includes 14 years in the engineering design and consulting business. Notable projects include a 225,000 gpd wastewater irrigation system for the Cliffs at High Carolina permitted through NC DWQ and a 26,000 gpd drip dispersal system for the Homestead at Mills River permitted by NC DEH. Mark has recently been appointed to the NCOWCICB.

The presentation deals with the Westglow Spa located in Blowing Rock, NC. Failing onsite systems and expansion of the facility necessitated a new and expanded system. Attempts to provide a reasonable solution resulted in a multiple-year trial. A previously permitted treatment and irrigation system was deemed impractical. A solution involving pretreatment and drip irrigation was embarked on. The project was hampered by unusual wastewater characteristics. The site was also found to have shallow depth to weathered rock that required unique soil and hydrological assessment from Brooks Engineering Associates.

Credit Hours: 1 Hour, INST, INSP, SUBS, REHS

CLASS TIME**CLASS TITLE****SPEAKER****ROOM****12:30 p.m. – 1:30 p.m.****Horizon Technologies: Innovation in residential ReUse****Green Room****Clint & Roberta Elston**

Clint and Roberta Elston form the husband and wife team behind Equaris Corporation of Afton, Minnesota. This innovative couple have recently been recognized by **Water Quality Products** as a winner (only 5 national winners for the past year) of the 2011 Top Water Quality Projects. This is their first venture to North Carolina and we hope their innovative techniques find a home in our State. The Elstons' have converted their home into a model of efficiency with energy saving and water reuse technologies. The results could prove of extreme value, as their water consumption and energy consumption have been drastically reduced. Colorado State University's Department of Civil and Environmental Engineering has been one of the national interests seeking to gain further information into the Equaris systems.

Credit Hours: 1 Hour, INST, INSP, SUBS, REHS

1:30 p.m. – 2:30 p.m.**Horizon Technologies: SBR's and How Advancements in Information Transmission Can Maximize Performance****Josh Meyer****Blue Room**

Josh Meyer is founder of Pekasys Inc. He studied Environmental Science, Chemistry, and Environmental Engineering at Temple University, with a focus on technologies that could convert waste into energy and other usable resources. Josh founded Pekasys with the vision of speeding up the adoption of sustainable technologies in the marketplace

Credit Hours: 1 Hour, INST, INSP, SUBS, REHS

CLASS TIME

CLASS TITLE

SPEAKER

ROOM

1:30 p.m. – 2:30 p.m.

“TIGHT!” Making the Site Situations All They Can Be

Green Room

Jim Beeson

Jim Beeson is president of Piedmont Environmental Associates, P.A. Jim has twenty-five years of experience in the evaluation of soils for both small and large scale wastewater dispersal systems. Jim has also designed, consulted, and aided in the installation of wastewater systems. Mr. Beeson has been involved and used as an expert witness in legal decisions and consults with developers in decisions involving soils available technologies and regulatory issues. Jim holds a Bachelor of Science degree in Agronomy from NC State University. He is formerly with S & EC, PA and former Branch Manager at their Greensboro Office.

Mr. Beeson’s presentation deals with most technical issues that arise in extremely restrictive sites confronted by size, soils, or complex topography.

Credit Hours: 1 Hour, INST, INSP, SUBS, REHS

2:30 p.m. – 3:00 p.m.

Exhibit Hall Break (remember your door prize ticket)

The Exhibit Hall will close shortly after the conclusion of this break. Please take the time to thank each Exhibitor for their time and support to our Industry and to our businesses. These professionals, like your own businesses, invest in our North Carolina Septic Tank Association and our success is due to their positive involvement.

<u>CLASS TIME</u>	<u>CLASS TITLE</u>	<u>SPEAKER</u>	<u>ROOM</u>
3:00 p.m. – 4:00 p.m.	Protecting Your Valuable resources: Vital Insurance Information for Small Business		Blue Room
	Do you know what coverage your business has or needs? This presentation will be real eye opener.		
	Credit Hours: 1 Hour, INST, INSP, SUBS, REHS		
3:00 p.m. – 4:00 p.m.	Taking the Mystery Out of Control Panels	Al Milliken Jr	Green Room
	Al Millikin clears the discussion around common Control Panel troubleshooting in an industry-friendly manner that mixes humor and onsite wisdom with hands-on expertise. Al is always a favorite speaker at industry functions and is associated with Southeast Sewer Fabrications, LLC of Shallotte, NC		
	Credit Hours: 1 Hour, INST, INSP, SUBS, REHS		
4:00 p.m. – 5:00 p.m.	Installer/Inspector Rules: Rules & Requirements for Certified Practitioners	Jerry Pearce	Blue Room
	Jerry Pearce is President of Pearce Environmental Technologies, current President of the North Carolina Septic Tank Association, and appointed to the NCOWCICB. Jerry is a second generation onsite wastewater professional and has installed and serviced small residential to large commercial facilities.		
	This presentation reviews and answers many of the questions concerning the recently approved Rules and Requirements for Certified Installers and Inspectors.		
	The sendoff for the 2012 Convention brings everyone back together for a summary of Rules now found under NC Codes		
	Credit Hours: 1 Hour, INST, INSP, SUBS, REHS		