

THE MAINTENANCE BEACON

The Monthly Newsletter of the North Carolina Public School Maintenance Association

Volume 58, Number 9
September 2021

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AWARDS BANQUET ENTERTAINMENT



The 49th Eastern Convention/Workshop Awards Banquet entertainment will be a real treat this year. Many of you know Rick Benton who is retired from the Union County School Maintenance Department. He now works for Wolf Trail Engineering. Rick is part of a group called "The Band of Brothers" and they will serve as the entertainment for the Awards Banquet.

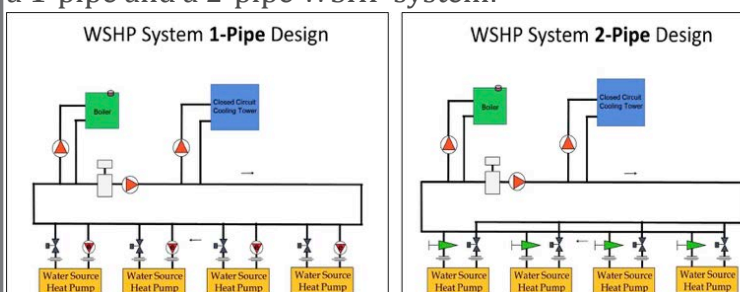
The Band of Brothers is a group of singers and musicians with well over 50 years of musical experience between
continued on page 5

INTRODUCTION TO WATER SOURCE HEAT PUMP SYSTEMS PART FOUR: PIPING DESIGN

By Chad Edmondson

One of the most appealing aspects of WSHPs in commercial applications is the overall simplification of piping. After all, you can eliminate the need for chilled, hot and condenser water piping. So instead of choosing between a 2- or 4-pipe system, you have the option of a 1- or 2-pipe system. But what does that mean when it comes to the actual piping layout? What are the differences and when might you apply one over the other?

Here are two side-by-side images of a 1-pipe and a 2-pipe WSHP system:



Right away you should notice a couple obvious differences between the two systems.

First, each WSHP in the 1-pipe system has its own
continued on page 4

Meetings and Events

NCPSMA EASTERN CONVENTION

September 22-24, 2021

Double Tree, Atlantic Beach, NC

For more information please contact Roxie Mack
336.366.4939 or roxiermack@gmail.com

DISTRICT THREE ANNUAL GOLF TOURNAMENT

October 29, 2021 • Rain Date November 5, 2021

Shotgun start at 1:00 PM • Wedgewood Golf Course, Wilson NC
For more information please contact Sue Farmer
252.399.7823 or sue.farmer@wilsonschooolsnc.net

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NASH COUNTY HOSTS DISTRICT THREE MEETING

Nash County Schools hosted the NCPSMA District Three Meeting held August 5, 2021 at Red Oak Middle School. District Three President and NCPSMA Liaison Officer, Mark Letchworth, called the meeting to order. Donna Ritterpusch, Nash County Schools Environmental Services Coordinator, welcomed everyone to the event.



l-r Mark Letchworth, Sue Farmer, Angela Lane

President Letchworth introduced the guest speaker for the event, Bob Dees, Nash County Schools
continued on page 3

MEETING DATES

The districts of NCPSMA meet twice yearly.

District 1

January, July

District 2

January, July

Pres. Ronald Moore
Phone: 910.296.1875

District 3

February, August
Pres. Mark Letchworth
Phone: 252.399.7822

District 4

February, October
Pres. Donna Fields
Phone: 910.678.2565

District 5

March, September
Pres. Justin Dyson
Phone: 336.909.2280

District 6

April, October
Pres. Chris Adkins
Phone: 980.343.4526

District 7

May, November
Pres. Raymond Bowles
Phone: 336.751.1991

District 8

March, November
V. Pres. Jason Kelly
Phone: 828.456.2402

Meeting Dates & Locations

Should be sent to The Maintenance Beacon two months in advance for publication.

Deadlines

Publication deadline for articles and advertisements is first day of the month prior to month of publication.



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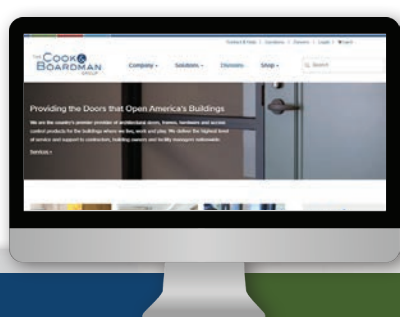
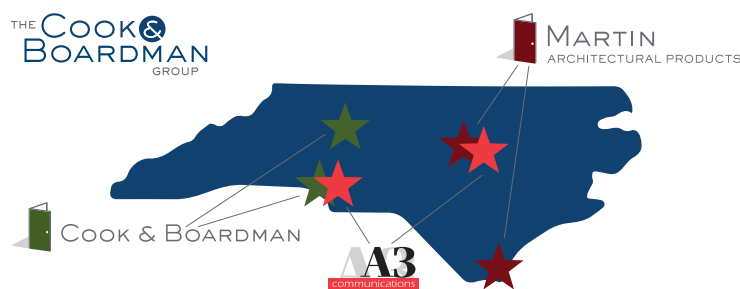
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NASH COUNTY HOSTS DISTRICT THREE MEETING

continued from page 1

Safety Officer. Mr. Dees presented a power point presentation on the new facility for replacement of Red Oak Elementary School. The Project consists of the construction of an 89,145 square foot building. The building includes administrative areas, media center, cafeteria, classrooms, support, and storage spaces. Construction includes structural slab on grade, pre-engineered structure, metal siding, brick veneer, metal roofing system, masonry, and steel stud interior walls. Once the new school is complete, Red Oak Elementary, Cedar Grove Elementary and Swift Creek Elementary Schools will be combined creating a population of about 650 students and staff.



Donna Ritterpusch

State President Bergie Speaks (of Wilkes County Schools) addressed the group briefly. He thanked everyone for attending, for supporting NCPSMA and encouraged members to attend the conventions. State Vice President David Martin (of The Mooresville Graded School District) also spoke to the group. If I remember correctly, it's been quite a long time since a NCPSMA State President and Vice President attended a District Meeting together (that was not in one or both of their home district).



Bob Dees

Greg Woodard, District Three Advisory Council Member called the roll, read the minutes of the last meeting, gave the financial and golf tournament reports. The proceeds from the golf tournament were \$3,676.32. Not bad for a COVID year! The district members voted to donate \$500 toward a refreshment break for the 49th Annual Eastern Convention/Workshop and \$1,500 to the Jay Palmer Scholarship Fund.



Attendees

Ron Mack gave the invocation and a meal was served. Following the meal Greg Woodard asked the vendors to introduce themselves and a generous amount of door prizes were awarded. Thank you, vendors, for your continued support of NCPSMA!



Bergie Speaks

Cash prizes were awarded for a member, director/supervisor and vendor in attendance. Billy Alston of Halifax County Schools won the member drawing; Charlie Richardson of Halifax County Schools won the director/supervisor drawing; Thomas Allred of Allred Mechanical, Inc. won the vendor drawing. The 50/50 drawing (\$147) was won by Bob Dees of Nash County Schools.



Attendees

Many thanks to the Nash County School Maintenance Department for hosting the event and to the District Three Officers who always do such a great job.



Bergie Speaks and David Martin

Roxie



David Martin



Greg Woodard & Bob Dees



Greg W. & Billy Alston



Greg W. & Charlie Richardson



Greg W. & Thomas Allred

DEADLY MISTAKES

By Judyth Forte, NCDOL State Plan Coordinator

Fatal Event: On March 9, 2016, a 28-year-old man died after he entered an area that was within the swing radius of an excavator and was subsequently struck by the counterweight.

Investigative Findings: Five employees were conducting pipe laying operations along the side of a major highway while installing new storm and utility pipes as part of a road widening project. The employee had been in a trench connecting utility pipes with another employee. When he finished, he climbed out of the trench and walked toward the excavator. The excavator operator was the foreman for the job and the competent person. When the employee got close to the excavator, the operator instructed the employee to move a compactor from the top of the nearby hill, by the roadway, down to the west end of the trench where the pipe was being laid. The employee moved the compactor down the hill and walked directly across the path of the excavator. He was standing behind the excavator, leaning on the compactor appearing to rest, when the operator started tramming (moving) the excavator away from the trench and swung the bucket counterclockwise. The counterweight of the excavator overlapped the top of the compactor and the employee was caught in between the two pieces of machinery. The operator said he did not see the employee. The employee died of blunt force trauma to the chest.

Discussion: The employees at the site were not prevented from entering into areas that were within the swing radius of an excavator being operated to perform trenching activities. The excavator operator did not ensure that all employees were clear of the excavator before he started moving. He was aware that the employee was in the immediate vicinity as he had asked him to move some equipment. He should not have moved the excavator until he could visually account for all the employees in the area. Employers must protect workers from being struck by vehicles, equipment and objects on the jobsite. While these hazards can exist on worksites, there are ways to eliminate exposures to these hazards and prevent injuries. Employers must ensure that control measures are in place to ensure employee safety. The employer's safety and health plan did discuss using heavy equipment and being careful working around other employees that are working at ground level. It stated: "Employees should familiarize themselves with the vehicle/equipment's blind spots, avoid backing up whenever possible and use spotters and barricades to prevent access to equipment when it is in use." However, this was not being implemented at this site. Barricading the area where the excavator was traveling would have prevented employees from entering the excavator's path or swing radius, and providing a spotter during the excavator

continued on page 5

INTRODUCTION TO WATER SOURCE HEAT PUMP SYSTEMS PART FOUR: PIPING DESIGN

continued from page 1

dedicated circulator pump to pump water from the loop and through the unit. These circulator pumps operate independently of the central loop pump, providing the exact flow and head needed to satisfy the requirements of each respective zone, thus eliminating the need for individual control and balancing valves. This arrangement can save pump energy because (1) the circulator pump can be variable speed and turned off during periods of no demand and (2) the system loop pump does not have to overcome the pressure drop of multiple control and balancing valves.

In a 1-pipe system, each pump is piped in a primary/secondary configuration but without the need for any special valves or fittings. When the circulator is turned off there is no flow thru the unit. The circulator is controlled from the individual

continued on page 6



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AWARDS BANQUET ENTERTAINMENT

continued from page 1

them. Their performances include a combination of top Southern Gospel and Bluegrass Gospel including some originals. Bringing with them a unique sound, The Band of Brothers consists of the following musicians: Rick Benton of Wingate, NC (Dobro, Banjo & Vocals), Chris Tucker of New Salem, NC (Lead Guitar, Acoustic Guitar & Vocals), Rex Brantley of Monroe NC (Drums), Alex Kovach of Monroe, NC (Bass Guitar & Vocals), Greg Deese of Marshville, NC (Acoustic Guitar & Vocals), Josh Greene of Pageland, SC (Fiddle & Vocals), Don Hunt of Wesley Chapel, NC (Keyboard), Jerry Byrum of Monroe, NC (Harmonica and Lead Guitar) and Kathy Deese of Marshville, NC (Sound Technician).

While their motto "Send Me" speaks for itself, they have a passionate heart for Christ, ministry through music and are excited to see what God has in store for them in the days and years to come. Catch any of their live performances and you'll find them moving seamlessly from bluegrass gospel, to southern gospel, to contemporary gospel to you name it. Yet it all manages to sound cohesive -- "strangely familiar" as one fan called it -- and all part of the experience.

DEADLY MISTAKES

continued from page 4

movement could have prevented this occurrence. Additionally, the employee should have been trained not to walk near the excavator or stand next to the equipment. The swing radius of cranes and backhoes is a very dangerous place to stand and that zone should not be entered. Construction workers are around heavy equipment daily, and they can become accustomed to the presence of heavy equipment, not giving much thought to the risks. Taking some time to understand and follow safety rules and staying alert while on the job can help construction workers stay safe.

Recommendation:

- Identify and mark a danger zone. Marking a danger zone effectively communicates hazards to anyone approaching construction equipment. The danger zone can be marked off with barriers, fencing or caution tape.
- Employees should avoid setting up their work area near heavy mobile equipment. The operator may not see them, especially if they are bending over to work or grab a tool.
- Employees should avoid positioning themselves in a blind spot or riding on moving equipment.

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**DISTRICT THREE GOLF TOURNAMENT
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1:00 PM SHOTGUN START**

**INTRODUCTION TO WATER
SOURCE HEAT PUMP SYSTEMS
PART FOUR: PIPING DESIGN**

continued from page 3

WSHP unit and is internally mounted at the factory, saving a lot of time and material at installation.

In addition to the individual circulators, notice also that the return water from each unit in the 1-pipe system goes directly back into the supply loop. In other words, there is no separate return loop. Each heat pump sees a different supply side temperature, as the water will become increasingly warmer (or colder) as it reaches the last heat pump. This must be considered when sizing individual WSHPs in a 1-pipe system. You may need multiple single pipe loops to control the WSHPs supply temperature depending on the building layout.

Unlike the 1-pipe system, 2-pipe systems have separate return and supply piping. This way all the WSHPs see the same supply water temperature since return water doesn't mix with supply. No individual circulator pumps are needed because the entire system is pumped by the central loop pump. Each WSHP will need to be balanced to make sure it receives the correct amount of flow.

To meet ASHRAE 90.1-2013 standard in a 2-pipe system, a two-position automatic valve must be installed on each unit and interlocked to shut off flow when the compressor is off. We recommend these valves be mounted, wired and set by the WSHP manufacturer to protect the compressors.

2-pipe systems can be either direct or reverse return.

1-Pipe Vs. 2-Pipe

While **1-pipe** WSHP systems are not well-suited for high rise buildings, they can be advantageous in many school, office and governmental building layouts and should be considered as a way to reduce installation cost. However, keep in mind that that a 1-pipe system will not reap the full benefit of system diversity. Plus, all of the units in a 1-pipe system must be sized based on the assumption that all are either in heating or cooling mode at the same time. In these cases, the performance of the units near the end of the loop can be impacted because of higher/lower water temperatures. Also, morning start-up in a system with nighttime setback can be tricky with a 1-pipe system.

2-pipe systems work well any type of building layout. They are simple to design and provide uniformly consistent entering water temperature to all units at all times. A 2-pipe system also provides efficient energy recovery, which can be especially advantageous in buildings with an interior core that requires year-round cooling and a perimeter zone where heating is required in the winter.

System Comparison	
1-Pipe	2-Pipe
Does not require unit balancing if provided with factory mounted variable speed circulator	Utilizes centralized pumping
Lower first cost, due to reduced piping	Units have same entering water temperature
Will not work for all building types	System is less complicated to design
Doesn't take advantage of system diversity	Provides efficient energy recovery and operation in all building types

Next up we will discuss geothermal heat pump systems which is one of the most energy efficient HVAC systems on the planet!

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DEADLY MISTAKES

continued from page 5

- Employees should confirm and receive acknowledgement from the heavy equipment operator that they are visible especially before approaching a vehicle.
- Operators should be aware of the swing radius of their equipment, especially when working in tighter spaces to avoid hitting workers, bystanders, other vehicles or equipment.

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20TH ANNUAL JAY PALMER SCHOLARSHIP GOLF TOURNAMENT ANNOUNCEMENT

This Golf Tournament is the only fund raiser we have had since our formation in 1990 other than a hat auction in 1991 (the hat collection of James B. (Jay) Palmer, Jr.) during the NCPSMA annual meeting that year.

Prior to 20 years ago our only means of fund raising was thru donations from people that knew Jay, NCPSMA Districts, vendors, family members, and friends.

During the first Golf Tournament we were able to raise over \$8,000.00. Handi-Clean Products, hole sponsors, and players made the tournament a success. Over the last 19 years Handi-Clean has been sold, sponsors and players have been on the decline. Premier Supply, Inc has agreed to be our new sponsor. With them and our Palmer family we ask that you help us to revive the tournament. The future leaders of our communities, that our scholarship fund supports, will appreciate it as well.

PLEASE HELP US TO MAKE THIS A GREAT TOURNAMENT!!

Sincerely Yours, Premier Supply Company
Jay Palmer Family

P.S. "THANK YOU FOR YOUR CONSIDERATION!"

20TH ANNUAL JAY PALMER SCHOLARSHIP GOLF TOURNAMENT HOLE SPONSORSHIP

The tournament will be played during the fall conference at Atlantic Beach, NC on Thursday, September 23, 2021 at the Star Hill Golf Club.

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sign with your name on one hole.
_____ YES, my check is enclosed, send before September 17th.
3. **BRONZE** - \$125.00 - BRONZE SPONSOR sign with your name on one hole.
_____ YES, my check is enclosed, send before September 17th.
4. **HOLE SPONSORS** - \$100.00 each gets a sign on the tee box of a hole.
_____ YES, my check is enclosed, send before September 17th.

SIMPLY COMPLETE THE FOLLOWING AND RETURN ASAP

PLEASE SEND AS SOON AS POSSIBLE.

THANK YOU

Individual placing ad _____
Company or Organization _____

Mailing Address

Street _____
City _____ State _____ Zip code _____
Phone # _____ Email Address* _____

Mail to: JAY PALMER SCHOLARSHIP TRUST FUND

**C/O James Palmer, III
6735 EAST OLD US HWY 64
LEXINGTON, NC 27292
FAX # (336) 746-5005 or**

E-mail to: james_marie@lexcominc.net

**Questions – Call James Palmer, III
336-746-5000 res.
336-239-1315 cell**

NCDOL LIBRARY UPDATE

The NCDOL library's subscription to the Training Network NOW safety and health video streaming service, now called Streamery, was recently renewed and will not expire until August 2022. Please contact the library at dol.library@labor.nc.gov or 919-707-7880 if you're interested in accessing and streaming online safety, health and human resources related videos or other safety resources. Refer to the **library page** on the website for more information.

"The most serious failure of leadership is the failure to foresee."

-Robert Greenleaf



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20TH ANNUAL JAY PALMER SCHOLARSHIP GOLF TOURNAMENT REGISTRATION FORM

Sponsored by: Premier Supply, Inc.

**Date: Thursday
23 September, 2021**

**Place: Star Hill Golf and Country Club
202 Club House Dr., Cape Carteret, NC**

Entrance Fees: \$50

*(Due on Tournament Date ...
this includes Cart and Green Fees)*

Scores will be handicapped by Callaway System

• SPECIAL NOTICE •

**Starting times will be arranged beginning at 8:00 AM
Please be on site around 7:30 AM**

TROPHIES & or PRIZES

*Low Gross - 1st and 2nd

*Low Net - 1st and 2nd

*Longest Drive *Closest to Pin
Prizes and Awards

(Maintenance personnel only, Eligible for prizes)

**Complete and Return Your Application
PRIOR TO 17 AUGUST, 2021 (IF POSSIBLE)
Course requesting numbers of players**

Name - _____

Address - _____

School System Name - _____ District # _____

Company Name - _____

Return to:

Tournament Director:

Jay Palmer Scholarship Trust Fund
C/O James Palmer, III
6735 East Old US Hwy 64
Lexington, NC 27292
Phone: 336-746-5000
Fax: 336-746-5005
Cell: 336-239-1315

DISTRICT THREE GT REGISTRATION FORM

NCPSMA ANNUAL GOLF TOURNAMENT SUPERBALL TOURNAMENT

DATE: October 29, 2021

RAIN DATE: November 5, 2021

PLACE: Wedgewood Golf Course
3201 Old Stantonsburg Road, Wilson, NC

Entry Fee \$50.00 per person

\$200.00 per team

(THIS INCLUDES: GREEN FEE, CART & LUNCH)

**Please make checks payable to: NCPSMA DISTRICT III
REGISTRATION FORM and PAYMENT FOR HOLE**

SPONSORSHIP AND TEAMS ARE DUE BY OCTOBER 15, 2021

IF PAYMENT IS NOT RECEIVED BY THIS DATE, YOU CANNOT PARTICIPATE

LUNCH AT NOON

Shotgun start at 1:00 PM

Prizes Include:

Hole Sponsorship:

Low Score

\$100.00 per hole

Closest To Pin
(MAX) 2

Mulligan's: \$5.00 Each

Longest Drive

COMPLETE:

Team Name: _____

Team Players Names: _____

Address: _____

School Unit or Company: _____

RETURN TO:

Wilson County Schools – Maintenance Department PO Box 3878, Wilson, NC 27895
Attention: Sue Farmer-Golf Tournament • Phone – 252-399-7823 • Fax – 252-243-7197

EASTERN CONVENTION ROOM RESERVATIONS

Don't Delay – Our room block will go quickly.

We have a contract with DoubleTree by Hilton, Atlantic Beach, NC. The rate starts at \$129.00 per night. The phone number for reservations is 1-800-222-TREE or 252-240-1155. The link for online reservations is: <http://group.doubletree.com/PSM>

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49TH ANNUAL NCPSMA EASTERN CONVENTION/WORKSHOP AGENDA

DoubleTree by Hilton / Atlantic Beach, NC

September 22-24, 2021 • Tentative Agenda

Tuesday 9/21

6:00-7:00 Early Registration -Foyer

Wednesday 9/22

7:00-5:00 Registration -Foyer

8:00-10:00 **Demystifying Electrified Hardware Locksmith License Renewal**
(2 CEU's - must attend all classes)
Presented by ASSA Abloy

Pamlico & Hatteras **Electrical** (2 CEU's -must attend all 4 classes)
Presented by Danny R. McManus Jr., Union County Schools Facilities Assistant Director

Bogue Sound **Ornamental & Turf Pest Control**
(2 CEU's -must attend both classes)
Presented by Tom Glasgow, Craven County Extension Director/ Horticulture Agent, NC State University

10:15-11:15 **Charlotte Mecklenburg School Indoor Air Quality Initiative Strategy**
(2 CEU's -must attend both classes)???? wasnt in yours??
Presented by Phil Berman, Executive Director Facilities and Building Services, Charlotte Mecklenburg Schools

10:15-12:15 **Door Closers, Troubleshooting and Tips Locksmith License Renewal**
(2 CEU's - must attend all classes)
Presented by ASSA Abloy

Pamlico & Hatteras **Electrical** (2 CEU's -must attend all 4 classes)
Presented by Danny R. McManus Jr., Union County Schools Facilities Assistant Director

Bogue Sound **Ornamental & Turf Pest Control**
(2 CEU's - must attend both classes)
Presented by Shawn Banks, Presented by Carteret County Extension Director/ Horticulture Agent, NC State University

10:15-12:15 **Press Fittings in the Plumbing World-Installation & Application**
Presented by Andreas Adrian, Technical Manager, Mid-Atlantic/Southeast, Viega, LLC

12:15 Lunch on Your Own

12:15-1:45 **Advisory Council Member Meeting**
Restaurant

2:00-3:00 **Business Session**
Atlantic

3:30-5:30 **Meeting Today's Code Compliance Requirements, Preventive Maintenance and Insuring Seating Safety**
Presented by Mark Beaulieu, Hussey Seating Company and Stephen Bishop, Seating Safety Solutions

Wednesday 9/22 continued

Cape Lookout **Boiler Systems and Service**
(2 CEU's)
Presented by Jeff Miller, James M. Pleasants

Pamlico & Hatteras **Electrical** (2 CEU's -must attend all 4 classes)
Presented by Danny R. McManus Jr., Union County Schools Facilities Assistant Director

Bogue Sound **Structural Pest Control**
(2 CEU's -must both classes)
Presenter TBA

Atlantic **Locksmith License Renewal**
Presented by Seven Oaks D&H and Carl Jobe, Retired Guilford County Schools

Onslow **Drinking Fountains and Bottle Fillers in a Post-Covid-19 World**
Presented by Brian O'Keefe, National Strategic Account Manager, OASIS International

Thursday 9/23

7:00 **33rd Annual Jay Palmer Memorial Scholarship Golf Tournament**

7:45-9:45 **Structural Pest Control** (2 CEU's)
Bogue Sound *Presented by Sydney Crawley, NCSU Assistant Professor, Urban and Structural Entomology*

9:00-9:30 **Exhibitor Display Selection**
Atlantic

9:30-11:00 **Exhibitor Display Setup**
Atl/Fear/Lookout Pam/Hatt

9:30-11:00 **Bleacher Codes, Inspections & Troubleshooting Tips**
Onslow *Presented by Matt Knight, Facili-Serv*

10:00-12:00 **Structural Pest Control** (2 CEU's)
Bogue Sound *Presented by Sydney Crawley, NCSU Assistant Professor, Urban and Structural Entomology*

11:00-12:00 **Superintendents & Directors visit with Exhibitors**

Noon Lunch on Your Own

12:00-1:00 **State Officers, Superintendents & Directors Luncheon**

1:00-5:00 **Visit with Exhibitors**

Friday 9/24

8:00-4:00 Registration

8:00:10:00 **Breakfast with Exhibitors**

10:00 **Exhibitor Display Breakdown**

10:00-12:00 **Emergency Response Planning**
Bogue Sound *Presented by Ben Bass, Builders Service*

Onslow **Maintenance Director/Supervisor Round Table Discussions**

12:00-1:30 **Cornhole Tournament**
Courtyard **(\$5 entry fee-includes bagged lunch)**

1:30-3:30 **Electrical** (2 CEU's -must attend all 4 classes)
Pamlico & Hatteras *Presented by Danny R. McManus Jr., Union County Schools Facilities Assistant Director*

1:30-3:30 **Roof Coating Forensics-Problem Solving**
Bogue Sound *Presented by Fred Wolfe, Business Director, Everest Systems*

Onslow **Maintenance Director/Supervisor Round Table Discussions**

6:00-Until **Banquet**
Atlantic Cape Fear & Lookout



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