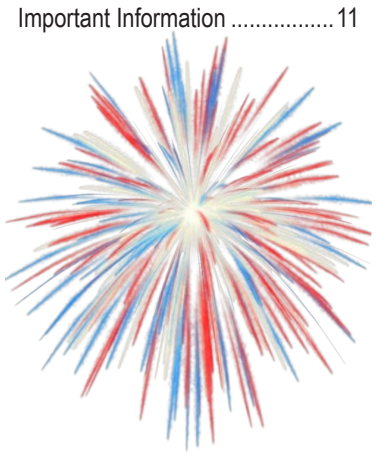
THE MAINTENANCE BEACON

The Monthly Newsletter of the North Carolina Public School Maintenance Association

Volume 57, Number 7
July 2020

Contents

Roxie Off Road 2
Designing Commercial Sewage Lift Stations.....3
Blast from the Past 5
District Three & Jay Palmer GT....6
Inspect Student Laptop Returns...6
Award Guidelines 10
Eastern Covention/Workshop Registration Forms .....10 & 11
Eastern Convention/Workshop Agenda 11
Eastern Covention/Workshop Important Information 11



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. Greg Woodard
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.

RICK SAIN RETIRES

Catawba County Schools Director of Construction and Maintenance, Rick Sain, retired May 31, 2020. He served Catawba County Schools as a teacher, Construction Coordinator, and Director. Future plans are to work in construction services with his son and travel with his lovely wife Sandy.

Submitted by Kristie Gilbert, CCS Maintenance

LARRY KING RETIRES

Mr. Larry King, Person County Schools Chief Operations Officer, retired at the end of May after 23 Years of Service. Mr. King served in this role since February of 1997, during which he has overseen the transportation, school nutrition, maintenance, and custodial departments.

Under his leadership, many significant projects have been completed. These include the planning and construction of Stories Creek Elementary and Helena Elementary in 2000, implementing an Energy Savings Program in 2006 (PCS remains one of the most efficient systems in North Carolina), the planning and construction of the new bus garage in 2008, and multiple roof replacement projects. In addition, he has overseen the installation of safety entry systems and cameras, participated in ongoing facility studies to improve functions at all schools/sites, and has effectively guided his staff to be able to maintain facilities and deal with all of the day-to-day events that occur.

Superintendent, Dr. Rodney Peterson said, "I want to thank Larry for all of his service during his tenure as Chief Operating Officer. Person County Schools has benefited from his expertise and commitment in ensuring that all students and staff have quality instructional spaces and grounds. We wish him the best as he starts a new chapter in life and hope that it will be as meaningful to him as his time with us has been."

Administrative Assistant, Sandra Crabtree, shared, "Mr. King has been the anchor of our department. He has built up a crew who are capable, experienced, and dedicated to continue working in the manner he has instilled in each of us. We are lucky to have had Mr. King as a leader and will miss having him and his steady hand at the wheel."

continued on page 2

Meetings and Events

NCPSMA DISTRICT THREE MEETING
August 6, 2020 4pm at Nash Central High School
4279 Nash Central High School Rd, Rocky Mount, NC 27804
For more information contact Sue Farmer at 252.399.7823

48TH ANNUAL NCPSMA EASTERN CONVENTION/WORKSHOP
September 23rd-25th, 2020 at
DoubleTree by Hilton, Atlantic Beach, NC
For more information contact Roxie Mack at 336.366.4939/roxiermack@gmail.com

NCPSMA DISTRICT THREE ANNUAL GOLF TOURNAMENT
October 23, 2020/Rain Date October 29, 2020
1pm Shotgun Start at Wedgewood Public Golf Course, Wilson NC
For more info. contact Sue Farmer at 252.399.7823

INDEX OF ADVERTISERS

ACR Supply Co 2
Atlantic Coastal Supply, Inc. 5
Carolina Courtworks 4
Davidson Sash & Door 3
D.H. Bruch Marketing, Inc. 3
Duro-Last Roofing 12
Floor Action 2
Green Air Environmental 2
Hardware Distributors 12
Hoffman & Hoffman 5
Image Supply 10
James M. Pleasants Co. 5
Ken Staley Co., Inc. 6
Lewis Boiler Supply 4
Loman Garrett 2
Matt Marshall & Co. 12
Reece, Noland & McElrath. 5
Richard K. Hunter & Co. 3
Royalwood 3
Saffelle, Inc. 4
Seven Oaks Doors & Hardware 5
Seven Oaks Supply Co. 4
Sky Enterprises 5
The Blind Butler/Premier Drapery 5
WC Rouse 2

NCPSMA WELCOMES NEW ADVERTISER

GREEN AIR ENVIRONMENTAL

How do you know if the coils in your Air Handler Units, Fan Coil Units, Unit Ventilators, Roof Top Units or HVAC equipment are clean?

Three measurements to determine this are differential pressure, air side delta T and water side delta T. Water side delta T is the temperature difference between the water entering and leaving the chill water coil. Air side delta T is the temperature difference between the

continued on page 2

LARRY KING RETIRES

continued from page 1

Another employee stated, “Larry King has always been a very thorough and consistent leader. His office door is always open for questions and concerns and he is as honest and genuine at work as he is wherever he goes. We couldn't have asked for a better leader, one who is leaving this department in better shape, with fewer employees, than when he started. His leadership has been a genuine reflection of the person he is.”

Mr. King has been instrumental in helping to make Person County Schools what it is today. He will be missed, but we wish him the best in retirement and all of his future endeavors.

Reprinted by Permission
Tracy Scruggs, Person County Schools

NCPSMA WELCOMES NEW ADVERTISER

continued from page 1

entering and leaving air across the coil. You can’t look at a coil and determine if its clean or dirty.

What happens when your coils are not clean? Students may get sick, teachers may get sick, teachers and administration may leave. You may have schools with poor airflow and humidity control. You will pay more in energy costs to operate those schools, and you may have to replace HVAC equipment sooner than anticipated. Green Air can help.

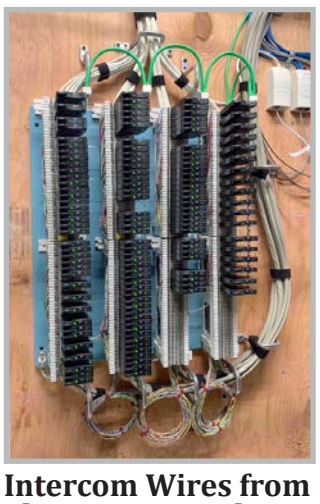
Green Air Environmental is a specialized firm that sustainably cleans Air Handler Units and HVAC Coils for K-12 School systems. HVAC equipment in K-12 Schools are different from other commercial spaces. K-12 HVAC Units vary from school to school, whether it’s fan coil units, AHU’s or unit ventilators, they must be cleaned on an annual basis. (ASHRAE/ASHE Standard 170-2013 & ASHRAE Standard 62.1-2016) The steam cleaning, chemical free process that Green Air has developed penetrates all types of HVAC coils found in schools. Chemicals are corrosive and add little to no value in the cleaning process of HVAC coils. Our steam process greatly improves HVAC efficiency, which lower energy costs, and extends life of the HVAC equipment. Indoor air quality is also improved due to the removal of microbial and bacterial growth deep within the HVAC units. Would you like to see what that looks like?
(https://greenairenv.com/#single/0)

Green Air is currently working with many school systems across the southeast in cleaning HVAC Coils. From the largest school systems, to the smallest, Green Air is making an impact. Whether Green Air is brought in to compliment programs being done in house, or being used to clean all HVAC equipment, this robust service will benefit your system.

Green Air continues to prepare school systems for the return of students this school year. How so? Since 201, Green Air has used a high temperature steam process, that removes not only dirt and containments from within HVAC equipment, but it kills microbial, bacterial, and virus that live on coils of HVAC equipment. Call Green Air today 1.800.789.3734. See ad in top right corner of this page.

ROXIE OFF ROAD

The past few months have really been strange. Most everyone has been affected in one way or another by the pandemic. I work from home most days, so that has not changed for me. However, not traveling to district meeting or being able to hold the Western Convention Workshop is peculiar. I’ve missed seeing folks.

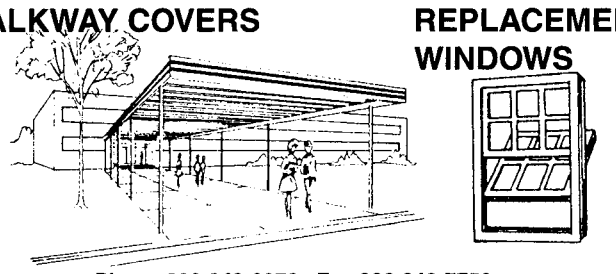


Intercom Wires from Classroom Speakers

Material for The Maintenance Beacon has been slim – more so than usual – due to not holding the events. I asked some of our vendors for articles about what they have been up to during the pandemic. **NC Sound** was the first to respond.

Representatives from **NC Sound** attend the NCPSMA Eastern Convention Workshop each year. **NC Sound** has been in business since 1988. They provide a wide range of audio video, security, structured cabling and paging telephone system services. They cover a broad range of low-voltage systems eliminating the need for several contractors to accomplish installations on a large project or to manage an existing facility with multiple systems already installed. They offer their customers (free of charge) Project Design and Budget numbers for projects as well as Capitol Out Lay. They provide

continued on page 4

WALKWAY COVERS
REPLACEMENT WINDOWS

Phone 336-249-0276 Fax 336-249-7750
Davidson Sash & Door, Inc.
1358 Piedmont Drive, Lexington, N.C. 27295-1952

WEIL-McLAIN
Without compromise -1881-
Weil-McLain redefines heating all over again.

Richard K. Hunter & Co.
Manufacturer's Agent
3714 Alliance Drive, Suite 405, Greensboro, NC 27407
Box 8347, Greensboro, NC 27419-8347
800-535-4140 / 336-288-7703 (fax)
Call your distributor or visit www.weil-mclain.com to learn more.

BRUCH MARKETING, INC.
Door & Hardware Representatives
(704) 588-5214
352 Crompton St.
Charlotte, NC 28273
ABH Manufacturing
Dormakaba, USA
Best Lock
Dorma
Precision Hardware
Stanley Commercial Hardware
Stanley Door Closers
Stanley Hardware
FRP Architectual Doors
Krieger Specialty Doors
National Guard Products
Security Door Controls
Tiger Door, LLC
Trimco Hardware
TruStile Doors
Providing Great Service for 57 years

Royalwood Associates
Specialty Flooring
Serving North Carolina, South Carolina & Virginia for over three decades.
www.royalwood.us
919-957-3006

Specializing in Wood & Synthetic Flooring Services for Public & Private Schools:
• Annual Screening & Recoating
• Sanding & Refinishing
• Court line & logo painting, staining, tinting & design
• Resurfacing (pad & pour)
• Installation & design of new wood & synthetic floors
Gymnasiums, Weight Rooms, Dance Rooms, Stages, Running Tracks, Multi-purpose Rooms, etc.
For more information contact Greg Serpas at 336-707-9976 or greg@royalwood.us

COMMERCIAL SEWAGE LIFT STATIONS PART SIX • A SIZING EXAMPLE

Over the last several issues we've talked about many aspects of designing a commercial sewage lift station, from flow rates to components. In this blog, we're going to work through a really simple sizing example. Let's say we are sizing a sewage station for a retirement facility made up of primarily independent living units.

First we must determine the total fixture units for the facility, remembering to include any additional service showers or other specialty fixtures that will drain into the sewage system. Remember that in order to get your total fixture unit value you must multiple the quantity of each specific fixture with the fixture unit value that is assigned to that fixture type. In our example, the total fixture unit value is 800. (See Part 1: How To Determine Flow Rate for a more detailed explanation.)

Item #	Description	Qty	Fixture Units	Ext. FU
1	Private Bath Groups	48	6	288
2	Kitchen Sinks	48	2	96
3	Washing Machines	48	8	384
4	Public Baths	6	4	24
5	Service Sinks	2	3	6
6	Separate Shower	1	2	2
TOTAL FIXTURE UNITS				800

Table 1

Next, we must consult the Hunter's Curve. Referring to the Figure 1 Hunter's Curve you can see that the corresponding Demand GPM for a fixture unit value of 800 is 180. This value lets us determine what our basin size should be.

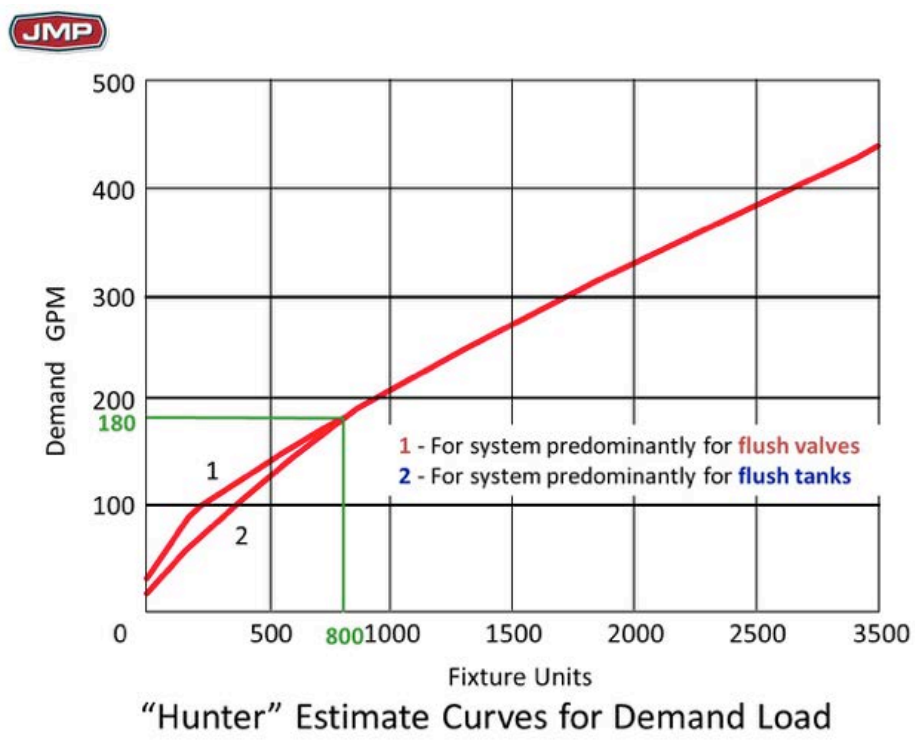


Figure 1

Table 2 shows the recommended minimum basin diameter for various pumping capacities (GPM) for both simplex (one pump) and duplex (two pump) systems that will accomplish a two-foot pump down with no more than 10 starts per hour. Don't forget to consult the proper column depending on whether you will have a 1 or 2 -pump system. The last thing you want to discover as the system is being installed is that you didn't remember that your application included redundant pump capacity and you only sized your basin for one pump.

Assuming we have planned a duplex system in our example, we would choose a basin with a minimum diameter of 42-inches.

Basin Diameter Chart Guidelines

Pump Capacity Q(GPM)	Diameter for Two Foot Pumpdown	Simplex		Duplex	
		Minimum Diameter	Recommended Pumpdown, ft	Minimum Diameter	Recommended Pumpdown, ft
50	30	30	2	42	1
100	42	30	4	42	2
200	60	30	8	42	4
300	72	42	6	48	5
400	84	42	8	54	5
500	96	42	10	54	7

Table 2

continued on page 9

ROXIE OFF ROAD

continued from page 2

the following for K-12 School Systems and Higher Education:
Overhead Paging
Class Change Bell Systems
Emergency Paging Systems
Television Distribution Systems
Remote Broadcast Systems
IP & Analog Security Cameras
Door Access Systems
Security Alarm Systems
Telephone Systems
Voice/Data & Fiber Cabling
Projectors
Cafeteria Sound Systems
Gymnasium Sound Systems
Auditorium Sound Systems
Football/Baseball/Softball Sound Systems
Board Room Audio & Video Presentation Systems
Board Room Recording Systems
Fire & Burglar Alarm Monitoring

Network Closet with all Systems

Security Boxes with power supplies and Control Panel

Security Wire for Keypads and Motions

Les Peele with NC Sound noted one project they've been working on was an addition/ renovation project for a school in Wake County - Wiley Elementary. Their objective was to provide an Integrator to deal with during the project. The project was successful. They used a variety of equipment including Bogen Intercom, Sound Equipment and Clocks, S2 Door Access, Aiphone, Bosch, Napco, Cornel.

We welcome articles about what y'all have been up to during the pandemic. Hope to hear from you soon.

Roxie

Carolina Courtworks is a licensed contractor of start to finish tennis and track complexes. From courts, fences, lighting, nets and other accessories, we can cover all your needs. If you're looking to resurface, reconstruct or construct we have been working in North and South Carolina for more than 27 years.

Carolina Courtworks
carolinacourtworks.com
(704) 392-6556 | 8715 Sidney Circle, Suite 600 | Charlotte, NC 28269

MEMBERSHIP APPLICATION

Please mail this form with your dues payment ($20) to:
NCPSMA, 630 Adams Ridge Road, State Road, NC 28676-9536

Name _____

Address _____

City _____ State _____ Zip Code _____

Telephone (___) ___ - _____ Email _____

School System_____ District _____

Company _____
(Individual memberships only-no 'company' memberships)

If you would like a reminder sent to your e-mail each month when the latest edition of the Maintenance Beacon is available online, please check below.

_____ Yes I would like a reminder sent.

THE MAINTENANCE BEACON

Executive Director: Roxie Mack
Phone: 336.366.4939
Fax: 336.366.4938
E-Mail: roxiermack@gmail.com
Website: www.ncpsma.org

The Maintenance Beacon is the monthly publication of the North Carolina Public School Maintenance Association. Advertising, editorial material, memberships and subscriptions are handled through the office of the Executive Director, 630 Adams Ridge Road, State Road, NC 28676-9536.

NCPSMA does not guarantee, warranty or defend the use of any products or services of those who sponsor, advertise or contribute articles in The Maintenance Beacon.

Officers of the Association

President	Michael Spillman	336.751.1991
Vice President	Reggie Long	910.947.2258
Secretary	Kristie Keener	828.456.2402
Liasion Officer	Bergie Speaks	336.667.2021

Parts & Service 24 hours a day, 7 days a week!
Phone: (336) 697-2090 Fax: (336) 697-8247

LEWIS BOILER
3127 Cedar Park Road
Greensboro, NC 27405
www.lewisboiler.com
We Keep the Fires Burning!
We Carry ALL Makes/Models for steam, oil, gas, or hot water boilers

HONEYWELL CONTROLS
HOFFMAN
BELL & GOSSETT
BOILER SECTIONS
GOODWAY BRUSHES
GLOBE, GATE, SOLENOID, BUTTERFLY, ETC. VALVES
OIL NOZZLES
BURNERS & ACCESSORIES
OIL FILTERS
TOPOG-E GASKETS
FIREYE CONTROLS
McDONNELL-MILLER
REGULATORS, TRAPS
ITT GENERAL CONTROLS
IGNITORS/ELECTRODES
REFRACTORY MATERIAL
PIPE FITTINGS

Saffelle, Inc.
SANITARY MAINTENANCE EQUIPMENT & SUPPLIES
"Partnering with a Passion"
1-800-672-4525
GREEN EARTH
www.saffelle.com

WASH YOUR HANDS!

Seven Oaks
SUPPLY COMPANY
CUTTING-EDGE CLEANING CONCEPTS
YOUR #1 SOURCE FOR...
- CUTTING-EDGE FLOOR CARE PRODUCTS
- RESTROOM CLEANING PROGRAMS
- ODOR CONTROL
- FLOOR CLEANING EQUIPMENT
- PAPER PRODUCTS & DISPENSERS

800-230-7460
OAKBORO, NC

SEVEN OAKS
DOORS & HARDWARE, INC.
www.SevenOaksHardware.com

Call us for all your doors, hardware, access control, and toilet partition needs.

Oakboro, NC
704-485-2014

Authorized Security Center
ALLEGION

SKY
SKY ENTERPRISES, INC.
Water Treatment Specialist
Cooling Towers Softners
Hot & Cold Water Loops Boilers
Pumps Timers Controllers
(252) 522-1435 • 1-800-729-0590
PO Box 1764 • Kinston, N.C. 28503

HOFFMAN HOFFMAN, INC.
Hoffman Building Technologies
A Division of Hoffman • Hoffman, Inc.
Building efficient, indoor environments in the Carolinas, eastern Tennessee and Virginia since 1947
We are proud to rep manufactures like
- McQuay
- Greenheck
- Evapco
- Daikin
- AAF-Herman Nelson
- Markel
- Munters
- Lennox
- Enviro-Tec
- ABB Drives

CALL NOW!
Have an emergency? We are here to help! Call today and we will get you the parts you need fast!
HVAC PARTS TODAY!!!
1-800-332-2295

Atlantic Coastal Supply, Inc.
Plumbing & Industrial Specialties
www.acsparts.net
PO Box 2887
Greenville, NC 27836
Phone: 800.520.0556 • Fax: 800.204.5630 • Email: sales@atlanticcoastalsupply.com

JMP
HYDRONIC AND STEAM EQUIPMENT, PUMPS, HEAT EXCHANGERS, COOLING TOWERS, WATER SOURCE HEAT PUMPS, PLUMBING
CLIMATEMASTER Geothermal Heat Pump Systems
Lochinvar CONDENSING BOILERS WATER HEATERS
HYFAB HYDRONIC PACKAGES PRESSURE BOOSTERS
Bell & Gossett CENTRIFUGAL PUMPS HEAT EXCHANGERS
BAC COOLING TOWERS
James M. Pleasants Company
Greensboro-Charlotte-Raleigh-Wilmington
www.jmpco.com
800-365-9010

"Responding to Modern Engineering Challenges With Innovative, Cost Effective Solutions"
RN&M ENGINEERS
Reece, Noland & McElrath, Inc.
409 North Haywood Street / PO Box 540
Waynesville, NC 28786
Waynesville (828) 456-9851 Asheville (828) 253-3280
Fax (828) 456-6205
WWW.RNM-ENGINEERS.COM

Blast from the Past

premierdraperycleaning.com
O: (910) 794-1664
Premier DRAPERY CLEANING
All the world's a stage and we're here to clean it!™
Stage Draperies • Acoustical Panels • Upholstery • Flameproofing
The Southeast's premier service for on-site cleaning, flame retardant application, and certification

INSPECT STUDENT RETURN LAPTOPS

A colleague of mine was contacted by a school district in their state about laptops coming back to the schools with the end of classes and some laptops are infested with cockroaches. It's quite possible that this problem could also happen with bed bugs.

The problem is being found when IT staff go to perform maintenance on the machines. So, school IT should be made aware of this as they inspect machines. If they find machines infested, they can use a product called "Nuvan Strips" which are used for bed bugs but are also suitable for cockroaches and are labeled for use on electronics including computers. A copy of the label follows. I would recommend testing it first on a few. It's important that this be done in an unoccupied room that needs to be totally ventilated before remaining in the room and before opening the plastic (or take them outside before opening them.

By Michael Waldvogel, PhD
Extension Assoc. Professor & Specialist, Structural & Industrial Pests
North Carolina State University
Dept. of Entomology & Plant Pathology

INTENDED FOR SALE TO AND USE BY PEST MANAGEMENT PROFESSIONALS ONLY

How it works: The NUVAN PROSTRIP utilizes controlled release technology to slowly diffuse a deep penetrating vapor in enclosed spaces for up to 4 months. The clean, odorless vapor is evenly distributed throughout the enclosed treatment area, killing visible and hidden insects on contact and preventing new insect infestations (while you're away).

ACTIVE INGREDIENT:
Dichlorvos (2,2-dichlorovinyl dimethyl phosphate).....18.6% INERT INGREDIENTS:.....81.4%
Total 100.0%

continued on page 7

NCPSMA ANNUAL GOLF TOURNAMENT DISTRICT THREE

SAVE THE DATE

Wedgewood Public Golf Course
Wilson, NC

Friday October 23, 2020
Rain Date - Thursday October 29, 2020

1:00 PM SHOTGUN START

37th ANNUAL JAY PALMER MEMORIAL SCHOLARSHIP GOLF TOURNAMENT

Sponsored by: Premier Supply, Inc.

Date: Thursday September 24, 2020

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 *Closet to Pin
Prizes and Awards
(Maintenance personnel only, Eligible for prizes)
Complete and Return Your Application
PRIOR TO 17 SEPTEMBER,2020 (IF POSSIBLE)
Course requesting numbers of players

Name_____

Address _____

School System Name _____NCPSMA District____

or

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

KEN STALEY COMPANY, LTD
4675 ROUTE 64 • BUILDING #16 • FRANKLINVILLE • NC 27248 • www.bleacher101.com
OFFICE: 336.685.4294 • FAX: 336.685.4242 • EMAIL: bleacher101@hotmail.com
BLEACHERS
GYM & OUTDOOR
• Safety Inspection & Repair Work
• Annual Service Program Offered • Handicap Areas
• Full Power Electrical Systems • Portable Power Systems
•Safety Rails • Outdoor Seating Sales and Installation
• Authorized & Certified • Bleacher Installers
• Basketball Goals Installed and Repaired
MORE THAN 40 YEARS OF SERVICE
SEE US FOR
ALL OF YOUR BLEACHER NEEDS!

NUVAN PROSTRIPS LABEL

continued from page 6

This product contains the toxic inert ingredient Bis (2-ethylhexyl) adipate (DEHA) at 19.8%.

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 5481-553

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
WARNING: May be fatal if swallowed. Do not get in mouth. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing vapors. Avoid contact with eyes or clothing. Wear chemical resistant gloves. After prolonged storage, a small amount of liquid may form on strip. Do not get liquid in eyes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Not to be taken internally by humans or animals.

STOP! READ ENTIRE LABEL BEFORE USE

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wearing gloves, remove the insecticide strip from sealed bag when ready to use and place strip in provided holder if treatment area is routinely accessed by people or pets. Do not allow children to handle new or used strips. Place (Hang) in desired location away from windows and out of reach of children and pets. (To apply strips to vertical surfaces, use the enclosed stickers). Drafts, weather and other conditions may affect the performance, but treatment usually lasts for four (4) months. One 16 g strip will treat 100 to 200 cu. ft. Record the date of installation and replace with a new, fresh, full-strength strip at the end of four (4) months or when effectiveness diminishes. Do not use in hospitals or clinic rooms, such as patient rooms, wards, nurseries, operating or emergency areas. Within homes, use only in closets, wardrobes and cupboards. Do not use in closets and wardrobes of rooms where infants, children and the sick or aged are or will be present for any extended period of confinement. Do not use in kitchens (except cupboards), restaurants or areas where food is prepared or served. Do not use in any area of the home where people will be present for extended periods of time. Do not use in the food/feed areas of food/feed processing or food/feed manufacturing or food/feed service establishments. Food/feed areas of these establishments where the product is not permitted for use are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems

FIRST AID

IF SWALLOWED
 Call a poison control center or doctor immediately for treatment advice.
 Have person sip a glass of water if able to swallow.
 Do not induce vomiting unless told to by a poison control center or doctor.
 Do not give anything by mouth to an unconscious person.
IF INHALED

 Move person to fresh air.
 If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
 Call a poison control center or doctor for further treatment advice.
IF IN EYES

 Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING
 Take off contaminated clothing.
 Rinse skin immediately with plenty of water for 15-20 minutes.
 Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN
Probable mucosal damage may contraindicate the use of gastric lavage. POISONING SYMPTOMS: This product is a cholinesterase inhibitor. Symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pin point pupils, salivation, sweating, nausea, vomiting, diarrhea, and abdominal cramps. TREATMENT: Atropine is the specific therapeutic antagonist of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, atropine sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Morphine is contraindicated. 2-PAM is also antidotal and may be administered in conjunction.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:
For Medical Emergencies phone:.....1-888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® ..1-800-424-9300 For Product Use Information phone: AMVAC® 1-888-462-6822

Nuvan Prostrip Specimen Label.12678-20150304 Page 2 of 6
(mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas. Non-food/feed areas of these establishments where the product can be used are areas such as garbage rooms, lavatories, floor drains (to sewer), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, utility equipment, garages, mop closets, and product storage (after canning or bottling). This product controls flies, gnats, mosquitoes, moths, silverfish, cockroaches, spiders, beetles, earwigs and other pests as listed.
Only available in the following sizes: 16 grams (0.56 oz.), 10.5 grams (0.37 oz.) and 5.25 grams (0.19 oz.) pest strip sizes.
NUVAN PROSTRIP is intended for sale to and use by pest management professionals only. This product is NOT intended for sale to or use by homeowners. Place strips in areas including garages, sheds, attics, crawl spaces, pantries, cupboards, closets, museums, museum collections, animal buildings, barns, storage units, trash bins, grain bins, pest traps, utility boxes, vacation homes, cabins, out-houses, mobile homes, rec-

continued on page 8

NUVAN PROSTRIPS LABEL

continued from page 7

reational vehicles, boats, farm houses, and ranch houses. Also use strips to control pests around non-perishable packaged, bagged or bulk raw and processed agricultural commodities (including corn, soybeans, grains, cocoa beans, and peanuts). When properly placed, strips provide control of pests for up to four months depending upon local conditions. Replace strip with a fresh strip as needed. See below for more detailed use instructions.
Each 16 gram strip treats100 to 200 cubic feet of space. Always use the appropriate number of strips for the space intended to be treated. Place strips uniformly in the area to be treated to facilitate a uniform treatment of the space. Strip provides continuous control of pests in treated areas through controlled release technology.

Within homes, use only in closets, wardrobes and cupboards. Also for use in storage units, garages, attics, crawl spaces, boathouses, museum collections, garbage cans, trash dumpsters, animal buildings, milk rooms, catch basins, bulk raw grain, storage bins, enclosed utility boxes, reptile houses and terrariums.

HOUSEHOLD, INDUSTRIAL AND COMMERCIAL USES
Within Homes, Use Only in Closets, Wardrobes and Cupboards
Garages, Storage Units, Attics, Crawl Spaces and Boathouses
NUVAN PROSTRIP kills flies, mosquitoes, gnats and other insects as listed for up to four (4) months. Wearing gloves, remove the insecticide strip from sealed bag when ready to use and place strip in provided holder if treatment area is routinely accessed by people or pets. Hang or place, out of reach of children and pets, in an open space of an enclosed area, away from windows. Do not allow children to handle new or used strips. One 16 gram strip will treat approximately 100 to 200 cubic feet. Replace with a new strip at the end of four (4) months or as needed.
Garbage Cans, Trash Dumpsters and Trash Receptacles

For control of flying and crawling pests, place the appropriate number of strips within trash receptacles such as compactors, garbage chutes, garbage rooms, garbage bins and others. Strip provides control of pests within trash receptacles for up to four months.
Animal Buildings

Use NUVAN PROSTRIP to control pests in animal buildings including stalls, barns, milk rooms, kennels, pens, poultry houses, manure storage and other such areas. Do not contaminate milk. Place strip in manure collection areas such as beneath egg layers and broilers but do not allow strip to be placed in areas directly occupied by poultry. Place the appropriate number of strips for the space to be treated. Strip will control pests for up to four months.

Milk Rooms
NUVAN PROSTRIP controls flies, mosquitoes and gnats in milk rooms and bulk storage rooms. DO NOT contaminate milk or milking equipment.
Nuvan Prostrip Specimen Label.12678-20150304 Page 3 of 6

Agricultural Commodities
Use NUVAN PROSTRIP to control pests of non-perishable agricultural commodities, grains, bulk foodstuffs, packaged foods and other similar items. Do not contaminate foods. Place the appropriate number of strips for the headspace (volume) to be treated. Strip will control pests for up to four months.

Catch Basins
Use NUVAN PROSTRIP to control mosquitoes and other pests in Catch Basins where water accumulates and mosquitoes may breed. Place the appropriate number of Strips for the space to be treated. Place strip by suspending about ten inches above the water surface to control mosquitoes. Strip may control mosquitoes for up to four months.

Enclosed Utility Boxes and Utility Chases
Use NUVAN PROSTRIP to control ants (including fire ants), spiders, wasps, hornets and other pests within electric junction boxes, plumbing control boxes, pump houses and other such utility boxes as needed. Place the proper number of strips for the space to be treated. Strip will control pests for up to four months.

Reptile Houses and Terrariums Occupied by People for Less than 4 Hours Per Day
Use NUVAN PROSTRIP to control mites on reptiles and other pests in reptile enclosures, displays, reptile houses and terrariums. Place strip such that the reptile and desired animals within the enclosure or terrarium will not come in direct contact with the strip. Do not over treat. Strip is NOT intended for treatment of aviaries or birdcages. Place the appropriate number of strips in a suitable place to provide control. Strip must be removed after the 48 hour treatment interval.

Museum Collections Occupied by People for Less than 4 Hours Per Day
Use NUVAN PROSTRIP to protect museum collections and other similar materials from damaging pests when this is a concern. Place strip in close proximity or within collection boxes using care to avoid contact with collectible and valuable items.

For Control of Bedbugs and Bedbug Eggs
NUVAN PROSTRIP may be used to control crawling bedbug nymphs and adults exposed to product vapors for 48 hours. In difficult to treat areas, a minimum treatment time of 72 hours will provide better results. Strip may be used to control bedbugs that have entered various items in an infested structure including, but not limited to: electronics, appliances, footwear, art work, collectibles, plush toys, clocks, radios, wall hangings, telephones, computers, printers, mattresses, box springs, books, lamps, furniture and other such items. Place infested items in a suitable plastic bag, poly sheeting that is completely sealed by adhesive tape on all sides, container or room that is closed to contain the strip treatment. Plastic bags or poly sheeting should be at least 2 mils thick. Any mattress or box springs to be treated must be fully enclosed with a single strip within a large plastic bag or within poly sheeting with all edges taped closed. Do not sleep or lay on mattress while in treatment bag. The closed volume for treatment should not exceed the volume to be treated for the size of the strip used. Take care to avoid direct contact of the strip with the surface of items being treated. Seal items in the containment for a minimum of 48 hours to kill bedbug nymphs and adults. To kill any bedbug eggs, if suspected to be present, seal items in the treated space for seven days. Seal plastic bags and poly sheeting with as much air space around the treated article as is practical as this will enhance the exposure to the product vapors. Proper seal can be attained by any appropriate manner such as the use of tape, twist ties or other means. Professionals should test for adequate seal by testing for the escape of air from the sealed bag. Identify sealed treatment by a label indicating a pesticide treatment is in process that should not be disturbed by unauthorized persons. The label should include the date, pest professional person or company responsible and contact telephone number. When treatment is completed, remove treated items from the treatment in a well ventilated area and air out for a period of not less than two hours. Discard plastic treatment bag or treatment poly sheeting and used pest strip in trash. Do not allow children to handle plastic treatment bags or treatment poly sheeting or new or used insecticide strips.
How much space will one strip treat?

continued on page 9

NUVAN PROSTRIPS LABEL

continued from page 8

Always use the appropriate size and number of strips for the space being treated. If more than one is required, distribute them within the space equally.
Strip Size
Treats
Approx. Equivalent to Area Measuring
16 grams
100 to 200 cu. ft.
8’ x 8’ x 3’ = 192 cu. ft.###
Nuvan Prostrip Specimen Label.12678-20150304 Page 4 of 6

HOUSEHOLD USES
Within Homes, Use Only in Closets, Wardrobes and Cupboards
NUVAN PROSTRIP gives continuous protection against moths, silverfish, cockroaches and other insects as listed in closets, wardrobes and cupboards for up to four (4) months and leaves no smell (odor). Wearing gloves, remove the insecticide strip from sealed bag when ready to use and place strip in provided holder if treatment area is routinely accessed by people or pets. Hang or stand on wardrobe or closet rail, ensuring that strip does not contact clothes or fabrics and that air can circulate around the strip. Use one 16 g strip to treat 100 to 200 cu. ft. for up to four (4) months. If more than one is required, distribute them within the space equally. Keep the space closed. Record the date of installation so that the old strip may be replaced with a new, fresh, full-strength strip at the end of the four (4) month period or when effectiveness diminishes. Do not use more than the number of strips recommended for the space to be treated. Do not use in closets and wardrobes of rooms where infants, children and the sick or aged are or will be present for any extended period of confinement. Do not use where unwrapped food is stored or allow the strip to come into contact with food or cooking utensils. Do not allow children or pets to play or sleep in these areas when treatment is in progress. Do not allow children to handle new or used strips.

Attics, Garages and Enclosed Crawl Spaces

DO NOT USE IN AREAS WHERE PEOPLE WILL BE PRESENT FOR AN EXTENDED PERIOD OF TIME.
NUVAN PROSTRIP kills flies and other insects as listed for up to four (4) months. Wearing gloves, remove the insecticide strip from sealed bag when ready to use and place strip in provided holder if treatment area is routinely accessed by people or pets. Do not allow children to handle new or used strips. Hang or stand, out of reach of children and pets, in an open space of an enclosed area, away from windows. Calculate cubic feet of air space to determine the number of strips required for treatment. Hang strips so as not to impede air circulation. When multiple strips are required, distribute them uniformly within the treated space. Record the date of installation so that the old strip may be replaced with a new, fresh, full-strength strip at the end of the four (4) month period or when effectiveness diminishes.

LIMITED WARRANTY AND DISCLAIMER
The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts’ evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.
THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE

STORAGE AND DISPOSAL
Storage: Do not contaminate water, food or feed by storage or disposal. Do not open or remove from
package before ready to install. Store in a cool, dry place.
Foil Pouch
Do not open or remove from package before ready to use. Disposal: If empty: Place in trash or offer for recycling if available. If partly filled: Call your solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.
Outer Container
Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of the empty container in trash.

Nuvan Prostrip Specimen Label.12678-20150304 Page 5 of 6

WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER’S EXCLUSIVE REMEDY AND MANUFACTURER’S OR SELLER’S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER’S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

©2014 AMVAC Chemical Corporation. All rights reserved. AMVAC, NUVAN, PROSTRIPS and the BEAKER logo are U.S. registered trademarks of AMVAC Chemical Corporation. Chemtrec is a trademark of the American Chemistry Council, Inc.
Proposition 65: Warning: This product contains a chemical known to the State of California to cause cancer.
AMVAC Chemical Corporation 4100 E. Washington Boulevard Los Angeles, CA 90023 U.S.A. 1-888-462-6822

GUIDELINES FOR TOP AWARDS

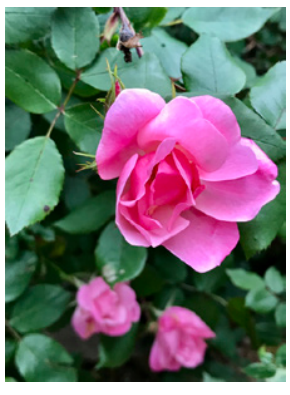
Nominations are being sought for the 2020 NCPSMA Maintenance Director of the Year, Maintenance Employee of the Year and Superintendent of the Year. The Maintenance Director of the Year and Maintenance Employee of the Year awards were established 33 years ago by Milt Saffelle and are sponsored annually by Saffelle, Inc. This is the 24th year the Superintendent of the Year award has been sponsored by Saffelle, Inc.

Should you wish to nominate a candidate, please supply the information outlined below and return to the chairman of the NCPSMA Awards Committee by ***August 10, 2020***. To qualify as a candidate for Superintendent of the Year, candidates may be superintendents, associate/assistant superintendents, who have the responsibilities for maintenance. They must be current members of NCPSMA.

Maintenance Directors are defined as those who serve as ***direct head*** of maintenance departments. Maintenance Employees are defined as other members of maintenance staffs.

1. Nominees for Supervisor of the Year or Employee of the Year awards must be currently employed as a maintenance person in an educational system in the state of North Carolina.
2. The nominee must have been an active member of the NCPSMA for the last five ***consecutive*** years.
3. The nominee cannot be the current state president.
4. Nominations must be made by an active member of NCPSMA. There should be a letter of nomination signed by the active member. Only one nominee, per category, may be submitted from each LEA. If more than one nominee, per category, from an individual LEA is submitted, same category nominations from said LEA will be ***disqualified***. This decision was passed by the NCPSMA Advisory Council, May 2016.
5. Nominees must be from the NCPSMA ***District*** making the nomination.
6. The following data must be supplied for each candidate:
   - A photograph of the nominee must be included and placed on a separate sheet of paper.
   - A biographical sketch, preferably in narrative form and no more than two pages in length, including the nominee's achievements that have contributed to success in NCPSMA and other professional involvement.
   - No other information on nominee will be accepted.

The Awards Committee is comprised of the NCPSMA One Year Advisory Council Members and Milt Saffelle, chairman. Saffelle serves in an exofficio capacity and does not have voting privileges. In case of a tie the current state vice president will have voting privileges. All nominations must be submitted no later than ***August 10, 2020*** to: Milton Saffelle, Chairman, NCPSMA Awards Committee, PO Box 1499, Hillsborough, NC 27278.



Only the supernatural love of God through changed lives can solve the problems that we face in our world.

~ Billy Graham

48TH ANNUAL NCPSMA EASTERN CONVENTION/ WORKSHOP INDIVIDUAL REGISTRATION FORM FOR *REGULAR OR RETIRED REGULAR MEMBERS

September 23-25, 2020 * DoubleTree by Hilton * Atlantic Beach, NC

Current or Retired Employees must be a current member to attend. Registration check-in at the convention will go much quicker for you if your membership is current before you arrive.

IMPORTANT INFORMATION – *EACH PERSON* attending the Awards Banquet (members as well as spouses, children, friends, etc., MUST PURCHASE a Banquet Ticket IN ADVANCE. NCPSMA welcomes members to bring their family or friends to our Awards Banquet, but you much purchase each person a Banquet Ticket ($10 each) in advance. NCPSMA must provide DoubleTree a count for the Awards Banquet two weeks prior to the event and we only order meals for those who purchased a Banquet Ticket in advance because the Banquet meal price for each individual is around $50. Please contact Roxie Mack if you have any questions at (336) 366-4939 or roxiermack@gmail.com.

PLEASE PRINT

Name: _____ Name of School System (LEA): _____

Address: _____ City: _____ State: __NC__ Zip _____

Office Phone: _____ FAX: _____ E-mail Address: _____

REMINDER: If you would like to bring your spouse, children, friends, etc. to the Awards Banquet on Friday night, you MUST purchase a Banquet ticket in *advance.

Conference Fees: Please circle all fees and items that apply and fill in blocks where appropriate.

PREREGISTRATION Before August 10, 2020		REGISTRATION After August 10, 2020		MEMBERSHIP		BANQUET TICKET MUST BE PURCHASED IN ADVANCE		TOTAL
Cash/ Check	Credit/ Debit	Cash/ Check	Credit/ Debit	Cash/ Check	Credit/ Debit	Cash/Check	Credit/Debit	
___x $75	___ x $78	___ x $85	___ x $88	___ x $20	___ x $21	___ x $10	___ x $11	

There will be no refunds after September 2, 2020.

Payment Information

Checks: Payable to NCPSMA and mail to NCPSMA, 630 Adams Ridge Road, State Road, NC 28676

Credit/Debit Cards: Please call Roxie Mack at (336) 366-939 with your information and the transaction will be completed online during the call. NCPSMA does not retain credit/debit card information. **Please email or fax a completed registration form *before* calling Roxie Mack.**

*Regular or Regular/Retired members are those currently employed and/or retired members in/of a NC Public School System. All others must register through Roxie Mack at (336) 366-4939 (phone); (336) 366-4938 (FAX) or roxiermack@gmail.com.

For more information concerning this even please visit our website at www.ncpsma.org.

48TH ANNUAL EASTERN CONVENTION/ WORKSHOP AGENDA

DoubleTree by Hilton / Atlantic Beach, NC • September 23-25, 2020

Tentative Agenda

Wednesday 9/23

7:00-5:00	Registration -Foyer
8:00-10:00	
Cape Fear & Lookout	Locksmith License Renewal (2 CEU's - must attend all classes) Presented by ASSA Abloy
Onslow	Dualwater (2 CEU's -must attend all 3 classes) Presenter TBA
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 both classes) Presenter TBA
10:15-12:15	
Cape Fear & Cape Lookout	Locksmith License Renewal (2 CEU's - must attend all classes) Presented by ASSA Abloy
Onslow	Dualwater (2 CEU's -must attend all 3 classes) Presenter TBA
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 both classes) Presenter TBA
Atlantic	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	
Atlantic	Business Session
3:30-5:30	
Cape Fear	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
Cape Lookout	Boiler Systems and Service (2 CEU's) Presented by Jeff Miller, James M. Pleasants
3:30-5:30	
Onslow	Dualwater (2 CEU's -must attend all 3 classes) Presenter TBA
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

Thursday 9/24

7:00	33rd Annual Handi-Clean Jay Palmer Memorial Scholarship Golf Tournament, Sponsored by Handi-Clean Products, Inc.
9:30-11:30	
Bogue Sound	Structural Pest Control (2 CEU's) Presenter TBA
Onslow	Bleacher Codes, Inspections & Troubleshooting Tips Presented by Matt Knight, Facili-Serv
11:00-12:00	Superintendents & Directors visit with Exhibitors

Thursday 9/24 continued

Noon	Lunch on Your Own
12:00-1:00	State Officers, Superintendents & Directors Luncheon
1:00-5:00	Visit with Exhibitors

Friday 9/25

8:00-4:00	Registration
8:00:10:00	Breakfast with Exhibitors
10:00-12:00	
Bogue Sound	Emergency Response Planning Presented by Ben Bass, Builders Service
Onslow	Maintenance Director/Supervisor Round Table Discussions
Exhibitor Display Breakdown	
1:30-3:30	
Pamlico & Hatteras	Electrical (2 CEU's -must attend all classes) Presented by Danny R. McManus Jr., Union County Schools Facilities Assistant Director
1:30-3:30	
Bogue Sound	Roof Coating Forensics- Problem Solving Presented by Fred Wolfe, Business Director, Everest Systems
Onslow	Maintenance Director/Supervisor Round Table Discussions
6:00-Until Atlantic Cape Fear & Lookout	Banquet

48TH ANNUAL EASTERN CONVENTION W/S IMPORTANT INFORMATION

Registration
Postmarked or before August 10, 2020 - $75 (cash or check) - $78 (debit/credit)
After August 10, 2020 - ($85) (cash or check) - $88 (debit/credit)

Banquet Tickets
Banquet tickets must be purchased by September 10, 2020. We have to place our order with DoubleTree at this time. We will order only a few extra tickets as the meal costs NCPSMA around $50 each. If you notify us you wish to wait to purchase a ticket when you arrive at the convention - the price will be $20 – so please order and pay in advance.

Room Reservations
Don't Delay – Our room block will go quickly.
We have a contract with DoubleTree by Hilton, Atlantic Beach, NC. The rate is $129.00 per night. The phone number for reservations is 1-800-222-TREE or 252-240-1155. The link for online reservations is: https://doubletree.hilton.com/en/dt/groups/personalized/O/OAJDTDT-PSM-20200921/index.jhtml?WT.mc_id=POG

DoubleTree by Hilton
2717 West Fort Macon Road
Atlantic Beach, North Carolina, 28512

COMMERCIAL SEWAGE LIFT STATIONS PART FIVE

continued from page 5

What about depth? It is also very important to choose the correct depth for your basin. Table 3 shows the factors that should be included to calculate the proper basin depth.

Finalize Basin Depth

1. Top of Basin to Bottom of the Inlet Codes may specify minimum	=	12 inches
2. Inlet to "Alarm" Float 3 to 6 inches, Codes may specify	=	3 inches
3. "Alarm" to "Lag" Float 3 to 6 inches	=	3 inches
4. "Lag" to "On" Float 3 to 6 inches	=	3 inches
5. Pump Down (V/GPF of Basin Selected) x 12)	=	24 inches
6. Floor of Basin to Top of Pump Case 2" Removal Pumps - 10 inches 3" Removal Pumps - 12 inches 4" Removal Pumps - 15 inches 6" Removal Pumps - 19 inches Small to Medium Sized Floor Mounted Pumps - 10 inches Large Floor Mounted Pumps - 16 inches	=	15 inches
Total Basin Depth		60 inches

Table 3

While it's important to understand the basic logic of sizing a sewage lift station, remember there are programs available that do all or most of the work for you. Bell & Gossett's ESP-Design Plus, for example, is a very easy-to-use program that will work through all these steps for you.

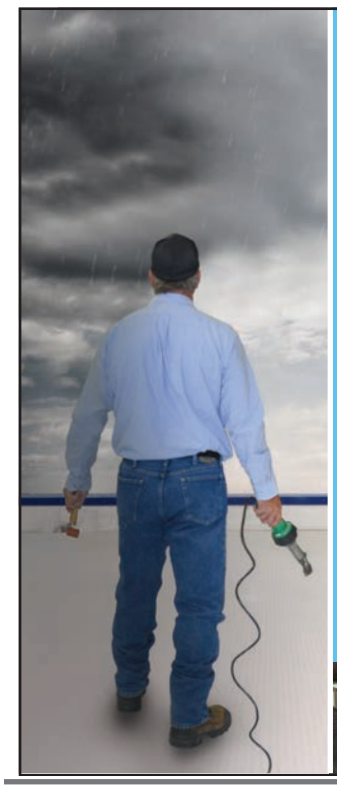
By Chris Edmondson
Reprinted by permission-James M Pleasants
Stay tuned for Part Seven

Hardware Distributors Inc.
WHOLESALE DISTRIBUTOR FOR
MAJOR BRANDS OF
Builders Hardware–
Architectural Wood Doors, CECO Hollow Metal Doors & Frames Washroom Accessories & Toilet Partitions
PO Box 16847 216 Industrial Ave.
Greensboro, NC 27406 1-800-632-1324

BOILER-BURNER / SALES & SERVICE
MATT MARSHALL & CO.
INDUSTRIAL EQUIPMENT & SUPPLIES
GREENSBORO, N.C.
PH: 336-292-8477 FAX: 336-299-0249
1-800-632-1274
Email: Sales@MMCO.net
"Call us for your boiler room supplies."

- ASCO "REDHAT" VALVES
- BACHARACH
- BELL & GOSSETT
- CONBRACO
- ELECTRODES
- FIREYE
- GAUGES
- HONEYWELL / RM 7800
- ITT GENERAL CONTROLS
- MAXITROL
- McDONNELL-MILLER
- SPIROTHERM
- THERMOMETERS
- TOPOG-E GASKETS
- TRANSFORMERS
- WATTS VALVES

WWW.MMCO.NET Email: Sales@MMCO.net
★ *Serving Industry Since 1954* ★
"Steam Is Our Specialty"


Duro-Last®; the most **water, wind and worry-resistant** roof in the business.
Duro-Last's industry leading warranties are supported by prefabrication of roof panels and membrane accessories in a factory quality controlled environment. This eliminates up to 85% of field welding. Our highly trained technical field team inspects the field welded seams. Once you put a Duro-Last roof on, you can put it out of your mind.
Edge-to-Edge & Deck-to-Sky™
Bill Paynter 919-265-9045 Eastern NC
Jim English 980-875-8187 Western NC

DURO-LAST. THE WORLD'S BEST ROOF®
Visit duro-last.com or call to find out more.

48TH ANNUAL NCPSMA EASTERN CONVENTION/ WORKSHOP MULTIPLE REGISTRATION FORM FOR *REGULAR OR RETIRED REGULAR MEMBERS

September 23-25, 2020 * DoubleTree by Hilton * Atlantic Beach, NC

Current or Retired Employees must be a current member to attend. Registration check-in at the convention will go much quicker for you if your membership is current before you arrive.

IMPORTANT INFORMATION – *EACH PERSON* attending the Awards Banquet (members as well as spouses, children, friends, etc., MUST PURCHASE a Banquet Ticket IN ADVANCE. NCPSMA welcomes members to bring their family or friends to our Awards Banquet, but you much purchase each person a Banquet Ticket ($10 each) in advance. NCPSMA must provide DoubleTree a count for the Awards Banquet two weeks prior to the event and we only order meals for those who purchased a Banquet Ticket in advance because the Banquet meal price for each individual is around $50. When registering multiple people, most LEA's include an "individual" payment form (check, money order or cash) for banquet tickets when they mail in the registration forms and LEA payment. Please contact Roxie Mack if you have any questions at (336) 366-4939 or roxiermack@gmail.com.

PLEASE PRINT

Contact Person:_____ Name of School System (LEA): _____

Address: _____City: _____State: NC Zip _____

Office Phone: _____ FAX: _____E-mail Address: _____

Table 2
What about depth? It is also very important to choose the correct depth for your basin. Table 3 shows the factors that should be included to calculate the proper basin depth

***REMINDER: If those you are registering would like to bring their spouse, children, friends, etc. to the Awards Banquet on Friday night, they MUST purchase a Banquet ticket in *advance*.**

Conference Fees: Please circle all fees and items that apply and fill in blocks where appropriate.

NAME	PREREGISTRATION Before August 10, 2020		REGISTRATION After August 10, 2020		MEMBERSHIP		BANQUET TICKET MUST BE PURCHASED IN ADVANCE	TOTAL
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
	Cash/ Check ___x $75	Credit/ Debit ___ x $78	Cash/ Check ___ x $85	Credit/ Debit ___ x $88	Cash/ Check ___ x $20	Credit/ Debit ___ x $21	Cash/Check ___ x $10	
GRAND TOTAL								

There will be no refunds after September 2, 2020.

Payment Information
Checks: Payable to NCPSMA and mail to NCPSMA, 630 Adams Ridge Road, State Road, NC 28676
Credit/Debit Cards: Please call Roxie Mack at (336) 366-939 with your information and the transaction will be completed online during the call. NCPSMA does not retain credit/debit card information. **Please email or fax a completed registration form *before* calling Roxie Mack.**

*Regular or Regular/Retired members are those currently employed and/or retired members in/of a NC Public School System. All others must register through Roxie Mack at (336) 366-4939 (phone); (336) 366-4938 (FAX) or roxiermack@gmail.com.

For more information concerning this even please visit our website at www.ncpsma.org.