

THE MAINTENANCE BEACON

The Monthly Newsletter of the North Carolina Public School Maintenance Association

Volume 60, Number 4

April 2023

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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. Jeff Adams

Phone: 336.551.1109

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.

Meet Doug Dixon



William "Doug" Dixon became the Director of Maintenance for Surry County Schools in February 2023; former Director of Maintenance Robert Draughn has taken a new position as the Director of Planning, Construction and Design. Doug started working with an incredible team in the Surry County School Maintenance HVAC Department 30 years ago. It has been an awesome career through the years, so much so that it is what gets him out of bed every day! Doug tells us he has had many role models at Surry County Schools through the years. Having been Doug's director for 22 years, he holds a great deal of respect for and still considers Mr. Draughn to be his mentor. He is glad they will still be working closely together. Mr. Draughn said, "Doug is a reliable employee that has always given 110% to his job at Surry County Schools. I am fortunate and honored to have him as a co-worker and friend."

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District Three Meeting Hosted by Wilson County Schools



Alicia Kirwan



Attendees - Halifax County



Attendees - Nash County



Attendees - Vance County

Wilson County Schools hosted the NCPSMA District Three Meeting on February 16, 2023, at the Toisnot Middle School. Toisnot Middle School is currently closed but that will change soon as it will have an elementary school moving in shortly. Sue Farmer, District Three Secretary/Treasurer, and Judy Aycock were at the registration table greeting attendees and distributing door prize tickets, as well as selling 50/50 tickets. There are different tickets depending on members, directors, and vendors. They do a great job keeping up with the different tickets for each attendee. Each category had a chance at a \$50 drawing before the tickets are merged for their chance to win one or more of the many door prizes that are awarded by our gracious supporting vendors.

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Meetings and Events

15TH ANNUAL NCPSMA WESTERN CONVENTION/WORKSHOP

May 24 and 25, 2023

Johnson Springs Convention Center, Ridgecrest, NC

For more info please contact Krisite Payne at

828.565.0115 or office@ncpsma.org

51ST ANNUAL NCPSMA EASTERN CONVENTION/WORKSHOP

September 26-29, 2023

DoubleTree by Hilton Atlantic Beach

For more info please contact Krisite Payne at 8

28.565.0115 or office@ncpsma.org

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REGISTRATION OPEN FOR THE 15TH ANNUAL WESTERN CONVENTION



Early registration is now underway for the 15th Annual NCPSMA Western Convention at the Ridgecrest Convention Center in Black Mountain, NC. More Information as well as Registration Forms and the Agenda can be found in this edition of *The Maintenance Beacon* and online at www.ncpsma.org. The pre-registration deadline is May 1, 2023. Please contact Kristie Payne at (828) 565-0115 or office@ncpsma.org if you have any questions.



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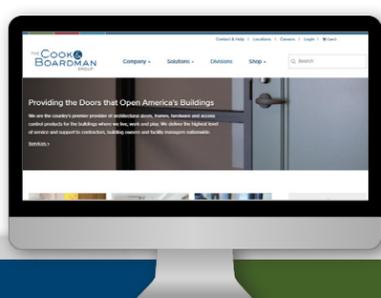
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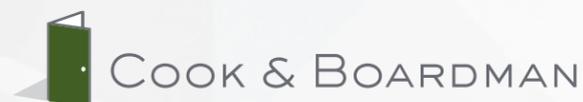


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Wilmington Office: Kyle Praeuner | (402) 841-1345

Meet Doug Dixon

continued from page 1

There have been several people Doug has worked with over the years for whom he draws a great deal of inspiration. Prior to Director Draughn, the Director of Maintenance was Tommy Haymore. Mr. Haymore taught Doug a lot about dealing with people and how to carry himself. The current Superintendent of Surry County Schools is Dr. Travis Reeves, whom Doug refers to as “unshakable!”. Doug has watched him make extremely tough decisions over the years and own the decisions he has made. He is constantly working to improve the quality of education and lives of the children and employees of Surry County Schools. Doug has gleaned many positive attributes from these three leaders throughout the years...attributes and qualities he intends on carrying over into his new role as Director of Maintenance.

Mr. Dixon is greatly enjoying his new position as Director of Maintenance and is eager and willing to embrace any challenge this position may bring. He greatly enjoys and thrives in planning and managing multiple task and projects all at one time. He has always been a “hands-on person” his entire career, which makes “holding back and delegating” a bit of a challenge for him. One of Doug’s fondest memories of his time with the school system is of Christmas. Each year at Christmas the Surry County School Maintenance Department holds a luncheon for the staff and their families. He enjoys getting to see and visit with the guy’s families and watching their children grow up over the years. When asked what the best advice he has ever received in his role in maintenance he stated, “you must be able to separate work and personal relationships”.

Doug was born in Townson, Maryland but is proud to have been raised in Mt. Airy, North Carolina. “Mt. Airy is where Andy Griffith grew up and when people come to visit, they say the “friendly” people reminds them of the fictional town

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District Three Meeting Hosted by Wilson County Schools

continued from page 1



Attendees - Wilson County

District Three President Greg Woodard called the meeting to order. Dr. Ben Williams, Assistant Superintendent for Wilson County Schools, welcomed everyone to the event. He continued with praise and thanks for the maintenance employees for everything they do because they are the glue that holds everything within the school systems together.



Attendees

Mark Letchworth, NCPMSA State Vice President and Wilson County Schools Director of Maintenance, introduced the guest speaker for the event, Alicia Kirwan, Vice President of Skinner Farlow Kirwan Architecture. Mr.



Bergie Speaks & Chris Campbell

Letchworth conveyed the importance of having an architect who listens to what the people who turn the wrenches have to say when renovations or new construction is imminent. He added he has enjoyed working with Skinner Farlow Kirwan Architecture. Ms. Kirwan stated there are many aspects to a good



Bergie Speaks

architect. There are many qualities involved including: bringing people together, having an open mind, innovated, collaborative leaders, being able to understand and empathize, and having good communication with everyone involved. She was very informative and gave everyone a lot to consider like how to choose between an architect and an engineer, why are master plans important and when planning future facility changes why you should do a site assessment. Everyone walked away from Ms. Kirwan’s presentation with a lot of “food for thought” before proceeding with plans at their school facilities.



Dinner catered by Parkers BBQ



Dr. Ben Williams

President Woodard, District Three Advisory Council Member, called the roll for the meeting then read the minutes of the last meeting, as well as gave the financial and golf tournament reports. The proceeds from the District Three golf tournament totaled \$5,179.31. A huge thank you to the vendors, players, volunteers and who supported the event and those who gave of their time. The district members voted to donate \$500 toward a refreshment break for the 15th Annual Western Convention and \$1,500 to the Jay Palmer Scholarship Fund. New district officers were elected as follows: President, Greg Woodard

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Press Release

Governor Cooper Urges Congress to Invest in Child Care

RALEIGH

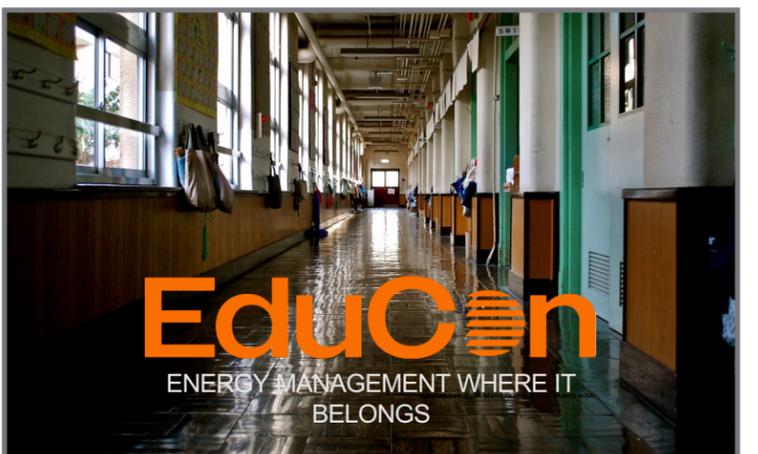
Governor Roy Cooper sent a letter to the North Carolina congressional delegation urging long-term recurring federal investment in quality child care.

“Quality child care is critical for supporting children’s education while making it possible for parents to work,” said Governor Cooper. “We know that the child care industry is facing enormous challenges finding teachers and keeping their doors open, so Congress must invest significantly to protect our children, our economy and our workforce.”

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Meet Doug Dixon

continued from page 3

of “Mayberry” from “The Andy Griffith Show.” There are many attractions to visit in Mt. Airy, including Floyd’s City Barber Shop, Old Mayberry Jail, Snappy Lunch, Andy Griffith’s Childhood Home, Andy Griffith Museum, a tour in a Mayberry Squad Car, and the Mount Airy Museum of Regional History (where you can learn about the famous 19th century Siamese Twins). During my visit to Mt. Airy, my favorite attraction was the North Carolina Granite Corporation, home to the world’s largest open-faced rock quarry. Its snow-white granite has been used in numerous famous buildings over the last 150 years. The quarry is so large that astronauts have reported seeing it from outer space as it measures more than a mile long and is at least a half mile wide.

While attending North Surry High School (Proud Greyhound), Doug met and fell in love with his high school sweetheart and future bride, Tammy Money Dixon. The two have now been married now for 33 years. After graduating from North Surry High School he attended Surry Community College obtaining his AAS Degree in Occupation Technology. Doug holds multiple contractor licenses including NC Electrical, NC HVAC, NC Refrigeration and Virginia HVAC.

Tammy and Doug are members of the Flat Rock Baptist Church. Mr. Dixon has several hobbies and activities he loves to do. He is a Mason member of Granite Lodge #322 in Mount Airy, North Carolina; he also loves surf fishing, gardening, playing golf and painting. His favorite hobby is painting because it “is when my mind is the quietest”. Once he gets started painting, several hours can simply fly by before he realizes it...which can from time to time interfere with his “Honey-Do-List.”

Mr. Dixon has been a member of NCPSMA for over 20 years. He was nominated by his peers and awarded the prestigious “Member of the Year” Award, sponsored by Saffelle, Inc., in September 2022 at the NCPSMA 50th Annual Eastern Convention. This award is given to a well-deserved and hardworking member every year. We are thrilled to have Doug join the ranks of individuals who have earned this award. Doug feels the NCPSMA has been a great source of information for him throughout the years, helping to keep him focused on public school maintenance needs and resources. His hope for the future of NCPSMA is that it will become an even stronger organization with greater involvement from the younger individuals within the association. If he could give maintenance employees a word of advice it would be to attend as many school board meetings as you can. This would give you insight to how and why a lot of decisions are made that directly impact you. As well as stay involved with the NCPSMA!

By Kristie Payne

Press Release

Governor Cooper Urges Congress to Invest in Child Care

continued from page 3

Congress provided one-time funding for child care during the pandemic, but as it ends, the need for recurring investment in child care is urgent. Since October 2021, 4,379 child care facilities in 99 counties in North Carolina have received funding totaling \$835 million.

North Carolina’s under-resourced child care system is strained to its breaking point, which has impacted the economy. As of 2021, North Carolina had 3,120 fewer child care workers than the state would have if pre-pandemic employment trends had continued. Almost half of all working parents say the number of hours they can work has been compromised by lack of child care options, and one-fifth say they have had to leave the labor market entirely. A recent study estimated that the child care crisis costs North Carolina \$3.5 billion each year in lost earnings, productivity, and revenue.

“North Carolina needs recurring federal investment in quality child care right now to keep our children learning and our economy growing. We need child care programs that can afford to stay open. We also need teachers who can afford to stay in the classroom,” wrote Governor Cooper in the letter.

Research shows that investment in high-quality early learning programs has a positive long-term effect on children’s education and well-being. The state has invested American Rescue Plan funds in child care to support North Carolina’s child care workforce. This investment is helping more than 4,000 child care programs stay open and boosting pay for more than 41,000 teachers and staff, but that funding is about to run out.

Governor Cooper urges the North Carolina congressional delegation to seek all available opportunities to make these recurring investments in child care for the state, economy and future.

District Three Meeting Hosted by Wilson County Schools

continued from page 3



Greg Woodard & 50/50 Winner Ullises Lubiano



Greg & Director Winner Charles Richardson



Greg & Mark Letchworth



Greg & Member Winner Jimmy Whitley



Greg & Vendor Winner Kelly Pink



Judy Aycock & Kelly Pink



Judy Aycock & Sue Farmer



New Officers: Back Row (l-r) Chris Pulley, Greg Woodard, Sue Farmer, & Mark Letchworth
Front Row (l-r) Donna Ritterpusch & Judy Aycock

(Wilson County Schools); Vice President, Judy Aycock (Wilson County Schools); Secretary/Treasurer, Sue Farmer (Wilson County Schools); News Coordinator, Donna Ritterpusch (Nash County Schools); 2-Year Advisory Council, Chris Pulley (Vance County Schools); and Mark Letchworth (Wilson County Schools) has one year remaining for his term on the Advisory Council. Thank you to all the officers and their willingness to serve.

NCPSMA Immediate Past President and Wilkes County Schools Maintenance Director Bergie Speaks gave the invocation. We were then treated to a wonderful dinner catered by Parker’s Barbeque who provided a delicious plates of whole hog barbeque, fried chicken, coleslaw, boiled potatoes, Brunswick stew, hushpuppies and corn sticks. Following the meal Greg Woodard asked the vendors to introduce themselves. He noted the vendors represented a wealth of knowledge and information and encouraged members to reach out to them. A generous amount of door prizes, provided by the vendors, were awarded. There were enough prizes so that some attendees received two prizes. We would like to thank all our vendors for their continued support!

A \$50 cash prize was awarded to a member, director/supervisor, and vendor in attendance. Jimmy Whitley of Wilson County Schools won the regular member drawing; Charles Richardson of Halifax County Schools won the director/supervisor drawing and Kelly Pink of Saffelle, Inc. won the vendor drawing. The 50/50 drawing totaled \$196 was won by Ulesis Lubiano of Halifax County Schools.

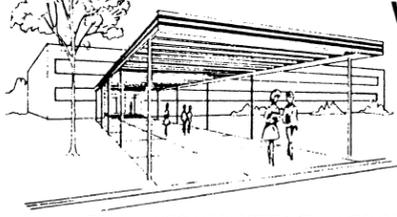
Thank you to Wilson County Schools for hosting this event and to the District Three Officers for providing District Three with a great event.

Kristie Payne



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Western Convention 2023 Important Information

15th ANNUAL NCPSMA WESTERN CONVENTION
IMPORTANT INFORMATION FOR MEMBERS
May 24-25, 2023

Hotel Reservations

- Room reservations are to be made on an individual basis.
- Reservations should be made by calling Ridgecrest Reservations Department directly at 1-800-588-7222.
- Special room rates for this convention range from \$119 - \$139 (before taxes), depending on room type and room occupancy.
 - In order to receive the special convention rate, you must inform the Reservationist at the time of booking you are attending the "2023 NCPSMA Convention".

NCPSMA 2023 Western Convention reservation block ends May 6, 2023, after which date rooms and room rates are not guaranteed.

- A credit card will be required for booking your reservation.
- Individual reservation deposits require a one (1) night's room rental.
 - This deposit is refundable less a \$10 per room processing fee if canceling 60 or more days prior to arrival, one-half refundable if canceling 30-59 days prior to arrive, and non-refundable if canceling less than 30 days prior to arrival. Ridgecrest is not a "transient hotel" thus rescheduling of cancelled rooms requires greater advanced notice.
- Please be sure to inform Ridgecrest Reservationist of any special needs i.e. handicap accessible room or other special request at the time of booking.
- **Check-in time is 4:00 PM and check-out time is 10:00 AM.**
- **If paying by check, please make payable to Ridgecrest.**

Meal Tickets

- Meal Tickets can be purchased for \$35 per person (\$37 for debit/credit payments).
 - Meals included are:
 - Wednesday: Breakfast and Dinner
 - Thursday: Breakfast only
- Meal Tickets must be purchased through NCPSMA Executive Director Kristie Payne before May 8, 2023.
- Due to our Catering Cutoff date of May 8th, Meal Tickets **CANNOT** be purchased at the Convention.
- **A Buffet Lunch will be served Wednesday and Thursday, which is included in your event registration fee.**

Ridgecrest Behavioral Standards

Ridgecrest is a Christian Conference Center and in keeping with their mission, the following standards help to assume the comfort of all guests.

- Alcoholic beverages, illegal drugs, firearms, and fireworks are not permitted.
- The use of tobacco and tobacco related products are prohibited. A \$250 cleaning fee will be incurred per incident if this standard is violated.
- Burning of incense or candles is prohibited.
- As a courtesy to all guests, please observe noise curfew from 11:30 pm and 6:30 am.
- Immodest clothing, distasteful or offensive monograms/designs, bare feet in public areas, or any extreme style of dress is prohibited.
- Pets are not permitted in any Ridgecrest facility. However, service animals as defined by ADA regulations are permitted. ADA regulations define a service animal as "any dog that is individually trained to do work or perform tasks for the benefit on an individual with a disability, including physical, sensory, psychiatric, intellectual, or other mental disability." Per the US Department of Justice, "The crime deterrent effects of an animal's presence and the provision of emotional support, well-being, comfort, or companionship do not constitute work or tasks for the purposes of this definition." Such animals are not service animals and are therefore not permitted in any Ridgecrest facility.
- Ridgecrest is not responsible for lost or stolen possessions. Ridgecrest does not assume responsibility for damage or loss of any material articles prior to, during or following events.

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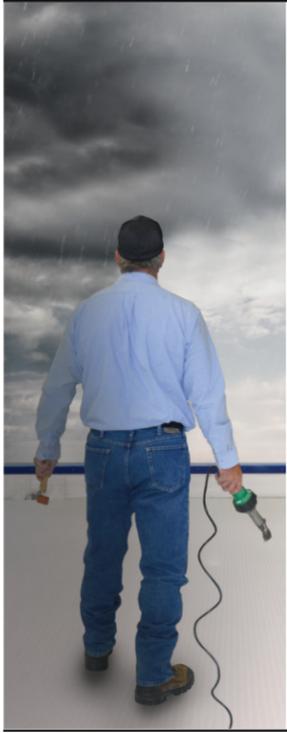
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15th Annual NCPSMA Western Convention

Individual Registration Form for Regular or Retired Regular Members

May 24-25, 2023 | Johnson Springs Conference Center at Ridgecrest | Black Mountain, North Carolina 28770

IMPORTANT INFORMATION

- Regular or Retired Regular Members are currently employed and/or retired from the North Carolina Public School System
 - o Regular or Retired Regular Members wishing to attend the conference must be current members of NCPSMA.
 - o You can register online at www.ncpsma.org if paying with debit/credit or by mailing this form in with your payment.
 - o In order to expedite the Registration/Check-In process, please be sure to pay all fees **INCLUDING MEMBERSHIP FEE** prior to arrival to the Convention.
- Meal Tickets may be purchased for the Ridgecrest Dining Room.
 - o Meal Tickets include Breakfast and Dinner on Wednesday and Breakfast on Thursday.
 - o A Buffet Luncheon will be served on Wednesday and Thursday and is included with your conference registration.
 - o Meal Tickets **cannot** be purchased through Ridgecrest and **must** be purchased with your registration.
 - o There will be **no refunds** for missed meals.

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INFORMATION NEEDED FOR RIDGECREST Please check one.		STAYING OVERNIGHT AT RIDGECREST		DAILY COMMUTER

Conference Fees: Please check all fees and items that apply and fill in blanks where appropriate.

DESCRIPTION	CASH OR CHECK	DEBIT OR CREDIT MUST BE PAID ONLINE	TOTAL
PREREGISTRATION Before May 1, 2023	1 x \$75.00	1 x \$78.00	\$
REGISTRATION After May 1, 2023	1 x \$85.00	1 x \$88.00	\$
MEMBERSHIP DUES	1 x \$20.00	1 x \$21.00	\$
MEAL TICKET <i>MUST BE PURCHASED IN ADVANCE BEFORE MAY 8, 2023</i>	1 x \$35.00	1 x \$37.00	\$
There will be no refunds after May 1, 2023.		GRAND TOTAL	\$

Payment Information

Checks: Payable to NCPSMA and mail to NCPSMA, 224 Mulberry Street, Clyde, NC 28721
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15th Annual NCPSMA Western Convention Tentative Agenda

Johnson Springs Convention Center | Black Mountain, North Carolina
May 24-25, 2023
Tentative Agenda

TUESDAY, MAY 23, 2023

3:00-5:00 pm **Early Registration** (JS Lobby / 1st Floor)

WEDNESDAY, MAY 24, 2023

TO OBTAIN CREDIT FOR CREDIT HOUR CLASSES YOU MUST ATTEND ALL CLASSES

7:15 am – 4:30 pm **Registration** (JS Lobby / 1st Floor)

7:15-8:15 am **Breakfast** (Cafeteria) - Previously purchased "Meal Ticket" required

8:00-10:00 am **NC Locksmith License Renewal** (2 CEUs) – "What Needs to Be Addressed Before Considering Access Control?" (JS 1 D & H / 1st Floor) Presented by Phillip Floyd, Co-Owner/Vice President & Director of Sales, Seven Oaks Doors and Hardware

"Stihl Small Engine Repair" – Class 1 (JS 2 B / 2nd Floor) Presented by Will Parker, Technical Sales Specialist, Mid Atlantic STIHL

"Hydronic Systems Maintenance" (2 CEUs) (JS 3 / 2nd Floor)
1) Pump Types & New Technologies
2) Pump Installation & Pitfalls
3) How to Read a Pump Curve
4) Pump Lubrication Requirements
5) Pump Seal Types
6) Air Management & System Pressurization
Presented by Jeff Miller, After-Sales Support Manager, JMP Equipment Company

"Pesticide Ornament & Turf" – Class 1 (2 CEUs) (JS 4 / 2nd Floor) Presented by Steve D. Pettis, Commercial & Consumer Horticulture Agent NC State Cooperative Extension

Electrical Updates Using the 2020 Code – (2 CEUs) Class 1 – "NEC 210.8 GFI Protection for Other Than Dwelling Units" (JS 5 / 2nd Floor) Presented by Josh West, Cabarrus County Building Inspector

8:00-9:00 am **Coffee Break and Refreshments** (JS Lobby / 1st Floor)

8:30-9:00 am **Exhibitor Display Selection** (JS 1 A / 1st Floor)

9:00-10:00 am **Exhibitor Display Setup** (JS 1 A/B/C/E/F/G / 1st Floor)

10:00-11:00 am **Opening Session and Vendor Introductions** (JS 2 C / 2nd Floor)

11:00 am – 12:00 pm **Visitation with Exhibitors and Door Prizes** (JS 1 A/B/C/E/F/G / 1st Floor)

Advisory Council Meeting (JS 2 C / 2nd Floor)

12:00-1:00 pm **Exhibitor and Member Traditional Southern Buffet Luncheon** (JS 2 A & B / 2nd Floor)

1:00-2:30 pm **Visitation with Exhibitors and Door Prizes** (JS 1 A/B/C/E/F/G / 1st Floor)

2:30-4:30 pm **Exhibitor Display Breakdown** (JS 1 A/B/C/E/F/G / 1st Floor)

NC Locksmith License Renewal (2 CEUs) – "Interior Doors and Hardware Applications" (JS 1 D & H / 1st Floor) Presented by Phillip Floyd, Co-Owner/Vice-President & Director of Sales, Seven Oaks Doors & Hardware

"Stihl Small Engine Repair" – Class 2 (JS 2 B / 2nd Floor) Presented by Will Parker, Technical Sales Specialist, Mid Atlantic STIHL

"Playground Safety" (JS 2 A / 2nd Floor) Presented by Jamie Perritt, Jr, Next Level Recreation of the Carolinas

WEDNESDAY, MAY 24, 2023 (continued)

2:30-4:30 **"Cost Management Strategies for Irrigation Systems"** (JS 3 / 2nd Floor)
1) Cost Management for Watering Athletic Fields
2) Irrigation Using Well Water Instead of Purchasing from Municipal Providers
3) Typical Water Usage & Costs
4) Irrigation Control Systems Technology
5) Common Issues Resulting in Unplanned Expenditures
6) Relationships with Athletic Directors & Coaches
Presented by Andrew LaRowe, Pres., EduCon & Michael Spillman, Maintenance Director, Davie County Schools

"Pesticide Ornamental & Turf" (2 CEUs) – Class 2 (JS 4 / 2nd Floor) Presented by Steve D. Pettis, Commercial & Consumer Horticulture Agent NC State Cooperative Extension

Electrical Updates Using the 2020 Code (2 CEUs) - Class 2 – "NEC 110.14, 22 and 31-.16 – Temperature Limitations, Identification of Disconnecting Means and Wiring Methods" (JS 5 / 2nd Floor) Presented by Josh West, Cabarrus County Building Inspector

4:45 – Until **Cornhole Tournament** with cash prizes (Sidewalk Area / 2nd Floor)

5:30-6:30 **Dinner** (Cafeteria) – Previously purchased "Meal Ticket" required

THURSDAY, MAY 25, 2023

TO OBTAIN CREDIT FOR CREDIT HOUR CLASSES YOU MUST ATTEND ALL CLASSES

7:15-11:45 **Registration** (JS Lobby / 1st Floor)

7:00-9:00 **Coffee Break** (JS Foyer / 1st Floor)

7:15-8:15 **Breakfast** (Cafeteria) - Previously purchased "Meal Ticket" required

8:00-10:00 **NC Locksmith License Renewal** (2 CEUs) **"How to Set up a Key System"** (JS 1 D & H / 1st Floor) Presented by Tammy Griffin, End User Specialist & Ed Garver, Distributor Sale Consultant, ASSA ABLOY

Pesticide Structural" (2 CEUs) – Class 1 (JS 4 / 2nd Floor) Presented by Patty Adler, NCSU, Director of Structural Pest Management Training Facility

Electrical Updates Using the 2020 Code (CEUs) - Class 3 – "NEC 225.30 B Common Supply Equipment in Outdoor Branch Circuits and Feeders" (JS 5 / 2nd Floor) Presented by Josh West, Cabarrus County Building Inspector

"Plumbing Fundamentals" (JS 2 A / 2nd Floor)
1) Flush Valve Maintenance
2) Wall and Yard Hydrant Maintenance & Repair
Presented by Josh Waters & Donnie Johnson, Total Maintenance Solutions

"Shelter in Place Lockdown Solutions" (JS 2 B / 2nd Floor) Presented by Barry Phillips, Regional Sales Director, Wesco

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15th Annual NCPSMA Western Convention Tentative Agenda

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THURSDAY, MAY 25, 2023 (continued)

- 8:00-9:00 **“Care, Maintenance & Fire Code Compliance for Your Stage Curtains”** (JS 3 / 2nd Floor)
Presented by Steve McKee, President, Premier Drapery Cleaning
- 9:00-10:00 **“Spectator Seating: Code Compliance & Preventative Maintenance”** (JS 3 / 2nd Floor)
1) Today’s Codes & How They Affect Facilities
2) Preventative Maintenance & Proper Care
3) Tips & Tricks to Help Reduce Liability Claims
4) Bleachers & Grandstand Code Compliance Upgrades
5) Auditorium & Outdoor Fixed Seating Maintenance Tips
6) Gymnasium Equipment & Backboard Inspections & Maintenance
Presented by Jacob Lovings, Seating Safety Solutions, Inc.
- 10:00–12:00 **NC Locksmith License Renewal** (2 CEUs)
“Troubleshooting and Maintenance of Doors and Hardware” (JS 1 D & H / 1st Floor)
Presented by Alan Meyer, End User Specialist & Scott Shipton, End User Specialist, ASSA ABLOY
- “Water and Fire Loss Restoration”** (JS 2 A / 2nd Floor)
Presented by Patrick Brown, Business Development & Commercial Project Management, Belfor Restoration
- “Maximizing Existing Budgets to Create Funding for Key Initiatives”** (JS 2 B / 2nd Floor)
Presented by Ken Harden, Senior Consultant, Energy Systems Group
- “Kitchen Equipment”** (JS 3 / 2nd Floor)
Presented by Darrin Bisson, Region Operations Manager, Hobart Service
- “Pesticide Structural”** (2 CEUs)
Class 2 (JS 4 / 2nd Floor)
Presented by Patty Adler, NCSU, Director of Structural Pest Management Training Facility
- Electrical Updates Using the 2020 Code (2 CEUs) - Class 4 – “NEC 230.71 B – Two to Six Service Disconnecting Means, Location, Grouping and Barriers”** (JS 5 / 2nd Floor)
Presented by Josh West, Cabarrus County Building Inspector
- 12:15-1:30 **Classic Picnic Luncheon Buffet** (JS 1 A&E / B&F / 1st Floor)
- 1:30-2:30 **Closing Session** (JS 1 A&E / B&F / 1st Floor)

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Variable Speed Pump Control in the Age of ASHRAE 90.1-2010/13 • Part Three

By JMP Equipment Company

How System Diversity Impacts Control Strategy

The diversity characteristics of a given system should be considered when choosing a control strategy for variable speed pumps in a hydronic heating or cooling system. The amount of diversity and the time and location of loads will dictate whether curve control or area control is the best strategy.

System diversity refers to the fluctuating loads that occur in most any commercial or institutional building or facility throughout a 24-hour period. Loads naturally vary for all of the following reasons:

- The movement of people from one space to another throughout the day. Obviously, the people in a building or facility can't be everywhere at once. For example, students migrate from classrooms, to the cafeteria, to the dorms, etc. throughout the day.
- The east, south, west, and north exposures of a building heat up at different times throughout the day. This impacts the “solar” load on a building’s cooling system.
- To a lesser degree, the opening and closing of doors also has some impact on the heat loss and heat gain of the building.

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Membership Dues are \$20.00 if paying by check. Complete this form and submit along with your check for \$20.00 to: **NCPSMA, 224 Mulberry Street, Clyde, NC 28721**

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Variable Speed Pump Control in the Age of ASHRAE 90.1-2010/13 • Part Three

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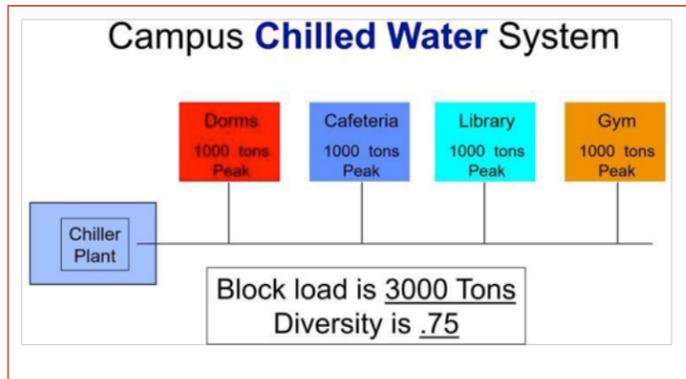


Figure 8

All of this creates diversity in the system, which means that peak loads do not (cannot) occur in every part of a facility at once. A simple way to see if a system has diversity is to add the total flow of all of the cooling coils and compare that value to your chiller plant design flow. In the above example the total connected load is 4000 tons, however the engineer has determined that the instantaneous maximum load at any given time is only 3000 (Figure 8). This gives the building a diversity factor of .75 or $3000 \div 4000$.

If we know our peak block load, we can minimize chiller capacity and “move” cooling supply from one place to another as needed. Variable speed pumping helps increase energy efficiency in these diverse systems; but there is a limit to how much we can slow the pump down while keeping the occupants comfortable.

Comfort and efficiency are the ultimate goals of variable speed pump control. Generally speaking, systems with a lot of diversity will experience more “misses” when pumps are controlled based on the control curve. When misses occur, comfort suffers and plant operators tend to increase the control head value on the pumps to keep occupants happy.

Ultimately this solution costs the owner more money because it increases the horsepower of the pumps indefinitely. How much a miss will impact comfort depends on where and when the loads occur. Some spaces may be able to tolerate the misses at certain times during the day. Other spaces may not.

Reset and Setback Considerations

Nighttime setback and chilled water reset can also cause problems and should be taken into consideration when deciding how to make the most of system diversity.

Think about a high school with nighttime setback. What happens when the system starts up in the morning and all zones call for heating or cooling at once? In our above example, this would mean that the system would suddenly require 4000 tons of cooling when the chiller plant can only provide 3000 tons. In this scenario, the coils closest to the chiller plant would get all the flow, while the more distant coils would be starved of flow.

A similar problem could occur in systems with chilled water reset. When the chilled water supply temperature is temporarily reset to a higher temperature during certain hours of the day, it can cause the system to flow more water than it was designed to flow.

Flow Tolerance

Neither of these are untenable problems; systems can be designed to allocate flow to various zones in a staged or sequential manner so that comfort is maintained. But one must keep in mind that nighttime setback and chilled water reset do impact variable speed control strategy, especially in systems that rely on non-dynamic curve control.

Flow tolerance determines how much we can vary flow before comfort is negatively impacted. This is the amount flow reduction the system can tolerate and still maintain 97% of design heat transfer at design flow. ASHRAE suggests a minimum of 97% heat transfer to maintain a properly balanced system. Typical chilled and hot water design conditions require 10% flow tolerance to meet ASHRAE’s definition for a “balanced system.” In other words, you can only vary flow through a coil so much before you impair its ability to achieve sufficient heat transfer, leading to a miss and ultimately discomfort. A miss of greater than 10% is not acceptable.

Heating systems have a broader operating range than cooling systems when it comes to maintaining sufficient heat transfer.

Let’s look at the following graph adapted from the ASHRAE Handbook to get a better feel for the comparative flow tolerances of heating and cooling.

This graph (Figure 9), originally developed by Gil Carlson of Bell & Gossett, has been adapted by ASHRAE and can be used to determine the coil flow tolerance for any given supply temperature at a given ΔT . The upper portion of the chart is for heating systems and the lower portion is for cooling.

Let’s first look at heating. If we have a heating system with a supply temperature 140°F and a 30°F ΔT , we can use this chart to determine that under these conditions we have a flow tolerance of 10% -- meaning that as long as we maintain 90% of design flow, we will stay within ASHRAE’s requirement for 97% heat transfer.

The same is true of a cooling system where the supply temperature is 45°F and the ΔT is 12°F. If we read across from 45°F on the lower portion of the supply side axis to where it intersects with the 12° F ΔT , we read down vertically to find that we have a recommended flow tolerance of 10%, meaning that we need to maintain 90% of design flow to maintain 97% of ASHRAE’s required heat transfer.

Remember -- chilled water systems are less forgiving in terms of flow variance than heating systems. This is because with a cooling system you are have both sensible and latent (humidity) loads.

It’s also important to note that ASHRAE says the system shall be designed to maintain the required flow tolerance. This includes part load. You must choose the right combination of variable speed pump control and balancing strategies to meet this requirement.

Continued in May Issue

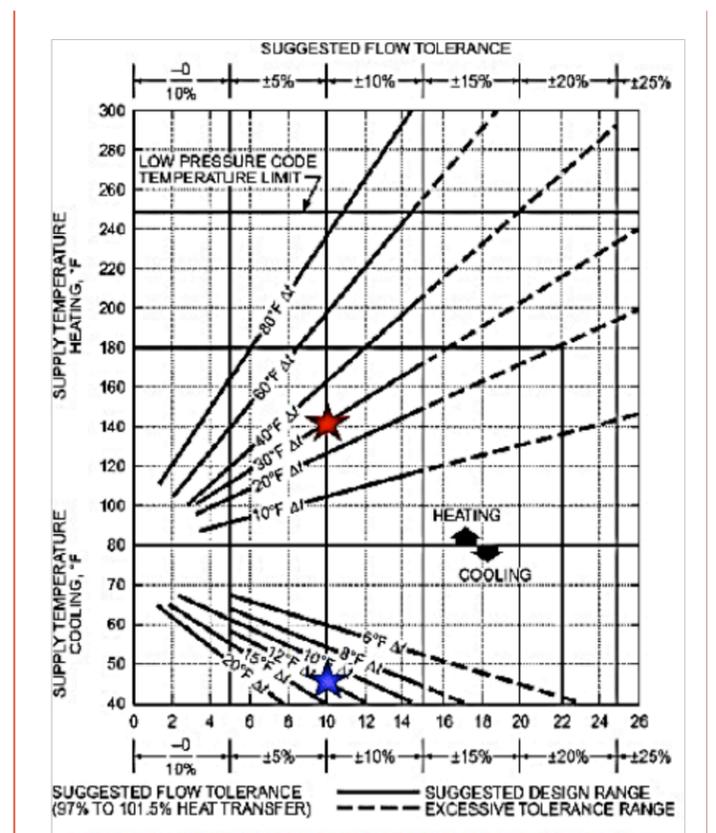


FIGURE 9 - FOR COIL FLOW TOLERANCE TO MAINTAIN 97% DESIGN HEAT TRANSFER (CARLSON 1098, ASHRAE HANDBOOK - SYSTEMS AND EQUIPMENT)

Safer Schools Webinar

Join Wesco and Partner Alliance for Safer Schools (PASS) for a **FREE** Webinar

Wesco is excited to announce we are a corporate partner for the Partner Alliance for Safer Schools (PASS). We are excited to share that our March 30th expert webinar will be presented by PASS. <https://passk12.org/>

The mission of PASS is to provide school administrators, school boards and public safety and security professionals with information, tools and insight needed to implement a tiered approach to securing and enhancing the safety of school environments based on their individual needs, nationwide best practices, and making the most effective use of resources available.

Today's school safety and security challenges are multi-faceted and complex. There is no single action that will, by itself, make our schools safe. Protecting students and staff is a tremendous moral and legal responsibility that requires a comprehensive approach to these challenges. This webinar will discuss how the PASS guidelines and checklist:

- Can be utilized by school officials, consultants and solutions providers to provide a common starting point for objective analysis and prioritization of school safety and security needs.
- Have been utilized by school officials to secure grants and funding to support their specific needs.
- Provide the flexibility to build a unique, appropriate and effective plan for enhancing the safety and security of each and every building across a given school district.

Speakers



Chuck Wilson, CEO, NSCA; Co-Founder and Chair Advisory Council, PASS

Chuck Wilson, co-founder and chair of the Advisory Council Partner Alliance for Safer Schools (PASS). Chuck has over 40 years of experience in the communications, security, and life safety business, including 26 years with the National Systems Contractors Association (NSCA), where he currently serves as CEO.



Paul Timm, PSP, Keynote Speaker & Author | School Security Expert

An acclaimed keynote speaker and author, Paul creates presentations to administrators, staff, and students, both on-site and on-line (retasecurityonline.com). Board-Certified Physical Security Professional (PSP) | Illinois Terrorism Task Force School Security Committee | Certified in Vulnerability Assessment Methodology through Sandia National Laboratories | Member: ASIS International - School Safety & Security Council; Illinois Association of School Business Officials - Risk Management Committee. Specialties: School Security, Campus Security, Church Security, Library Security, Parks & Recreation Security, School Safety, Emergency Planning, Expert Witness, Crisis Management, Staff Training.

We hope you can join us on March 30th for this expert webinar, details and registration information below.

<https://event.on24.com/wcc/r/4079545/E87C86C11263118253D3E033BD940A68?partnerref=email1>

If you have any questions, please feel free to contact Cesar Montalvo at Cesar.Montalvo@anixter.com

Campus Complexities: Application of the PASS School Safety and Security Guidelines






April Celebrations

April 1 – April Fools' Day

April Fools' Day is celebrated on April 1 each year. Some people love it and some people hate it but April Fools' Day is a day that encourages tricksters to “pull a fast one” over on others.

No one is sure the origins of where April Fools' Day began. There are several different speculations but here are a couple:

- In 1582, when France switched from the Julian calendar to the Gregorian calendar (in which the year began with the spring equinox around April 1.). People who were slow to get the news or failed to recognize the start of the new year had moved to January 1 and continued to celebrate it during the last week of March through April 1 became the “butt” of jokes and were called “April Fools.”
- It is tied to the vernal equinox, the first day of spring, when Mother Nature fools people with changing, unpredictable weather.

April 5 – National Self-Care Day

With the hustle and bustle of life, it is usually hard and sometimes impossible to put your needs and desires first. This day emphasizes the importance of self-care as a basis for good health while encouraging individuals to prioritize self-care, reduce stress and make it a habit. Each person's mind and bodies require adequate rest and care to promote optimal health and well-being. The most important relationship you will ever have is with yourself!

In 2010, Laura Schwartz, a Chicago-based development coach, created National Self-Care Day to remind us to take a break and put ourselves first.

Today is the day that gives us the perfect opportunity to make yourself a priority by putting your needs and wants first and do something you truly love without feeling the unnecessary guilt of doing so, because you deserve it!!!

April 5 – National Dandelion Day

When you look at a dandelion what do you see? A flower, a vegetable, a flower or a weed? In the eyes of a child, dandelions are the most beautiful flowers that you can give to your mom. Dandelions are a tap-rooted, perennial plant that are known to endure harsh conditions. Every part of the dandelion may be eaten, and they are brimming with medicinal properties. Raw dandelion greens are rich in calcium, potassium, iron, manganese and various vitamins and the flower can be used to produce a yellow dye.

Once dandelion flowers dry off and drop their petals they open into a spherical shape. Once the seeds are mature, they can fly off with the wind or if you are an ambitious daydreamer, you can blow the seeds off in hopes that their “wishes” will come true.

April 9 – Easter

While many other holidays have fixed dates (Christmas, for example, is always on December 25), Easter's date changes each year. It takes a little work to determine the date, but it is the first Sunday following the full moon that occurs on or just after the spring equinox. Based on the cycles of the moon, Easter might occur on any Sunday between March 22 and April 25.

Easter is a Christian holiday that celebrates the resurrection of Jesus Christ. In the New Testament of the Bible, His resurrection occurred three days after Jesus was crucified by the Romans. Good Friday (the Friday before Easter) is when Jesus' crucifixion is observed. Easter is also associated with the Jewish holiday of Passover, as well as the exodus of the Jews from Egypt, as described in the Old Testament.

There are some non-religious Easter traditions that some households participate in which include egg decorating and hunting and a character known as the Easter Bunny who delivers candy and chocolate bunnies and/or eggs in Easter baskets to children on Easter Sunday morning.

April 28 – Pay It Forward Day

Pay It Forward Day is a global initiative in hopes to create the feeling of kindness across the world not just this one day but causing a ripple effect that will last all year long as small acts of kindness that can literally change the world for the better.

Has someone ever done something nice for you when you least expected it? Bought you a small gift, a smile out of the blue or they gave you a hug just because. And when someone extended kindness to you did it make you happy? This is what kindness does and why the world needs more of it. When people are kind, it makes you want to be kind in return.

Has someone done something kind for you recently, why not pay it forward by doing something kind for someone else in return.