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Letter from the **PRESIDENT**

As I complete my final message to the association peers as your CRSMCA President, the CRSMCA Board members are looking forward to the 76th Anniversary CRSMCA Annual Meeting/Summer Convention, which is just days away. I am looking forward to enjoying the beach with everyone and their families, but also the hearing from the great speakers lined up on Friday and Saturday morning. Be sure to make the most of your weekend with your family and friends!

CRSMCA hosted their 2nd Annual Spring Golf Tournament in May and it was another enormous success! I would like to thank the Spring Golf Committee and the Title Sponsor, Beacon Roofing Supply, as well as the other sponsors and attendees of the Golf Tournament.

This past year, CRSMCA introduced a few new programs offered to the CRSMCA members that provide your business assistance and discounts from extended health benefits to human resource assistance and fuel discounts. Be sure to check out what each program can offer your company... and if there is anything additional you are seeking, please reach out to Carla at the CRSMCA office!

In closing, I would just like to say Thank You, for allowing me to serve as your CRSMCA President. It has been a pleasure to work with the Executive Committee members, the District Directors as well as the Associate Group Board members.
—*Scott Mathias, Watts & Associates Roofing, Inc.*
CRSMCA President 2018-2019



CAROLINAS ROOFING & SHEET METAL CONTRACTORS ASSOCIATION

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Carolinas Contacts addresses issues and concerns of the roofing industry. Technology, test, and building codes are constantly changing, and such changes may not be reflected herein. All information is presented for the benefit of our readers and does not necessarily reflect the views of CRSMCA. Press releases and product information presented do not reflect all available materials. Before purchasing, installing, using, or recommending any product, system, or method, readers should make independent evaluations.

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THE CRSMCA MISSION STATEMENT

To promote and safeguard the common business interest of its members and to improve conditions by educating all persons concerning the roofing and sheet metal business and industry. To work for the development and progress of the roofing and sheet metal business industry and to work with individuals' organizations and governmental agencies toward the achievement of a stronger profession of the roofing and sheet metal industry.



The 76th Annual Meeting/Summer Convention is right around the corner, as is the end of my time as Associate Group President. It is hard to believe that 4 years have passed, and my hope is that CRSMCA is in a better place than when I started. We have made a variety of changes along the way and during my time as president we were able to see the fruits of our labor over the past year. We held our 2nd annual CRSMCA spring golf tournament which had record attendance and produced great earnings for the association. As a result of this event CRSMCA was able to offer two scholarships at \$2,500 each to members of the association. We were able to provide these scholarships to two wonderful recipients and wish them all the best as they move forward with their education. If you are a member of the association and are interested in applying for next year's scholarship opportunity please reach out to Carla at the CRSMCA headquarters.

If you missed the CRSMCA 2nd Annual Spring Golf Tournament last month, you missed quite an event. Thank you to the CRSMCA Golf Committee, title sponsor Beacon Roofing Supply and all other sponsors of this event. Without your support and attendance we could not offer such a wonderful event to the members of the association. We filled the course with over 170 people in attendance, 21 sponsoring companies, great door prizes, and fun interaction and games on every hole. What an incredible event and I am already looking forward to the 3rd Annual Spring Golf Tournament in 2020!

With the Annual Meeting/Summer Convention at the Marriott Resort and Spa at Grande Dunes from June 20th-23rd right around the corner please make sure to get your registrations into Carla as this is set to be another wonderful event. Please refer to the CRSMCA website for a list of events and speakers, networking opportunities and beach socials that might peak your interest in the event. The Banquet and After Party will be headlined once again by The Liberty Street Band so bring your dancing shoes.

I have been honored to serve as a part of this great organization over the last 4 years and although my time on the Associate Group Board has come to an end, I look forward to continuing my involvement in other ways. I encourage you to find ways to stay/become involved and you too will find all the value and benefits that I have found over the last several years. I look forward to watching this association continue to grow and evolve over the years to come.
—Drew Buchanan, GAF Materials Corporation



Association IN ACTION

Is your year going by as fast as mine? CRSMCA has closed another successful Carolinas Mid-Winter Roofing Expo and everyone is ready to get caught up on the list of projects that were impacted by the rain over the last couple of months.

In this issue we are sharing some highlights of the Carolinas Mid-Winter Roofing Expo with snapshot photos as well as congratulating the 2019 Most Valuable Employees; recognizing Ladder Safety; and sharing a few important notes on drone safety.

Check out what is coming up in the Carolinas in the new few months

Commercial, Industrial



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and be sure to check out the CRSMCA website (www.crsmdca.org) for additional information and easily accessible registrations.

· NRCA is providing a **Qualified Trainer Conference** at the CRSMCA office on April 29-May 1. To be the best, send your trainer(s) to the NRCA Qualified Trainer Conference, a state-of-the-art, three-day classroom and hand-on educational program that gives them the tools they need to be exceptional. Check out details in this issue or at NRCA.org

· The **2nd Annual Spring Golf Tournament**, sponsored by Beacon Roofing Supply, will be taking place in lieu of the Spring District Meetings at the Rocky River Golf Club in Concord, North Carolina. This will be an opportunity for the roofing industry to unite in a networking and fun environment. CRSMCA would like to give the opportunity to the vendors/associate members to be sponsors of the tournament to allow them to showcase their company products, providing an activity, and/or by providing refreshments. The tournament will feature a Poker Run, sponsored by IKO, during the tournament play as well as host an evening awards ceremony with dinner.

LIMITED SPACE REMAINS. ONLY 12 Team Spots available.

LIMITED ROOMS AVAILABLE at the Homewood Suites by Hilton located on the property

· CRSMCA will be celebrating their **76th Anniversary** at the **Annual Meeting/Summer Convention** June 19-23 at the Marriott Resort & Spa Grande Dunes in Myrtle Beach, South Carolina. The detailed agenda and your registration forms are within this issue.

Host Hotel Reservations at the Marriott Resort & Spa Grande Dunes EXPIRE on MAY 29!

The CRSMCA Board members and staff continue to work together to bring the CRSMCA members continuing education throughout the year from the Master Installers Certification Program. These classes are great for any roofing professional that is interested in learning more about these areas of the roofing process. Class participants not only will learn from an expert in the classroom, but also receive applicable hands-on demonstrations and be tested on the knowledge learned for competency. The Committee is currently looking for manufacturer and/or distributor participation with instruction and hands-on demonstrations for upcoming classes (low-slope metal flashing, metal roofing, and coatings). If you are interested in participating at any level, please contact the CRSMCA office.

As always, if your company needs any form of training, please contact the CRSMCA office to discuss how CRSMCA can help your company stay safe and educated when on the job!

I look forward to seeing you all at the next CRSMCA events that are coming up in the Spring and Summer. There is always growth and strength in numbers and opportunities to grow not only YOUR CRSMCA, but YOUR roofing industry!
—Carla B. Sims, CRSMCA Executive Director

CRSMCA IS SEEKING VOLUNTEERS FOR THE CRSMCA COMMITTEES

CRSMCA is Seeking Volunteers for the CRSMCA Committees

CRSMCA is always looking for members to volunteer within their Association. What better way than to join a Committee where you can share your thoughts/opinions to help structure the Association and its future. As a Committee Member you will be able to put your name and your company's name in front of your fellow members.

Membership Committee

The Membership Committee's primary responsibility is to increase and develop contractor membership and participation. The committee needs to increase membership by XXXX members and to establish and promote a recruitment incentive plan. The Association office will assist in securing any new members.

Education & Professional Development Committee

Develops educational programs to be implemented at the Mid-Winter meeting, Summer Convention and District meetings. Secures speakers. The goals of this committee include increasing attendance at each event ensuring that the speakers meet the member's needs

CRSMCA Carolinas Contacts Magazine Committee

Meets six times a year to decide on articles to include in the issues of the Carolinas Contacts. Secures advertisers for the magazine.

CRSMCA Safety STAR Committee

Maintains an active partnership with NCDOL/OSHA to promote safety in the workplace. Gives a voice from CRSMCA members in regulatory issues concerning the roofing industry.

Maintains the STAR program within the Association. Helps members get started in this program and guides them as needed. Audits the STAR applicants.

Political Action Committee

Researches current political issues affecting the roofing industry in both North and South Carolina and informs the board so that they can determine what action if any needs to be taken

Spring Golf Committee

Develops and assist with the planning of the Annual Spring Golf Tournament with securing the location, sponsors, prizes, four-somes, etc. as well as additional tournament fun events.

If you or someone in your company is interested or have questions, please feel free to contact your CRSMCA President, Scott Mathias (scott@wattsroofing.com) or me at any time. WE WOULD LOVE TO HEAR FROM YOU!



WHAT IS THE CRSMCA MASTER INSTALLER CERTIFICATION?

The CRSMCA Roofing Academy Master Installer Certification Program

is designed to promote safety issues and concerns in the application of the roof systems to prepare the employee for best practices in their job performance. It is intended for the use by anyone with an interest in these roof systems, from roofing workers to foremen to supervisors. It is a culmination of efforts by contractors, manufacturers, suppliers and others who are dedicated to promoting safety.

Enrolled students will learn and train the basics of roofing, increasing their knowledge and skills to make them more valuable to their respective companies, as well as build future leaders in the roofing industry.

HOW CAN YOU GET INVOLVED?

The CRSMCA Roofing Academy Committee is always searching for instructors of the classroom material and the hands-on demonstration. View the class and hands-on courses in this issue. Should you wish to be an instructor, donate materials, and/or be a hands-on instructor; please contact the CRSMCA office at 704.556.1228 or cbsims@crsmca.org or the Committee Chairman, David Griffin, at dgriffin@coastalcommercialroofing.com.

RCI INC. WILL BECOME THE INTERNATIONAL INSTITUTE OF BUILDING ENCLOSURE CONSULTANTS

On April 1, RCI will become the International Institute of Building Enclosure Consultants. RCI has grown from a small core of dedicated roof consultants to representing 3,600 members composed of building enclosure consultants and other industry stakeholders specializing in roofing, waterproofing and exterior wall specification and design. The change will align the association's name and brand with its purpose and strategy.



NC DEPARTMENT OF LABOR/OSH

Compliance Bureau Contacts

Tim Childers

336-776-4420 | tim.childers@labor.nc.gov

Phil Hooper

919-779-8512 | phil.hopper@labor.nc.gov

Training information, registration and training course and dates can be found at https://www.labor.communications.its.state.nc.us/OSHPublic/ETTA/class_regist/calendar.cfm



LEARN ABOUT THE CRSMC SELF-INSURERS FUND

Carolinas Roofing and Sheet Metal Contractors – Self-Insurers Fund is the oldest worker’s Compensation group funded in the Carolinas and could be saving your company money! Members within the CRSMC-SIF program are not just purchasing their workers compensation, but investing into a program that brings additional value to their company through a commitment to ensure the safety of their employees. As a member/customer within the program, you participate in building a fund that is beneficial for all members/customers within the program, you could receive competitive rates within the insurance industry, and you could receive a return of interest determined by the CRSMC-SIF Trustees and other approved returns during the year. In the year 2016, the CRSMC-SIF returned more than \$1 MILLION DOLLARS to the CRSMC-SIF members!

Additionally, the CRSMC-SIF is large component of support for the CRSMCA through sponsoring the CRSMCA Annual Meeting/ Summer Convention and attendance of Trustees at the event. **HAVE YOU CONSIDERED CRSMC-SIF FOR YOUR WORKERS COMPENSATION NEEDS?**

UPCOMING TRAINING EVENTS

- 10-Hour Construction Industry Workshop (Asheville) June 16-18
- 10-Hour Construction Industry Workshop (Hickory) August 19-20
- 30-Hour Construction Industry Workshop (Hickory) August 19-23
- Complying with OSHA General Industry Standards (Raleigh) | October 2-3

SAVE THE DATE



CELEBRATE YOUR SAFETY SUCCESSES

GET READY FOR SAFE + SOUND 2019

Safe + Sound, OSHA’s year-round campaign to encourage every workplace to have a safety and health program, includes both employers and workers.

Participate in quarterly events on building an effective safety and health program in your workplace. Learn about best practices during webinars and put them into action during the 30-day challenges. These events also focus on management leadership, worker participation, and finding and fixing hazards. Share your safety successes during Safe + Sound Week, August 12-18, 2019. Sign up on the Safe + Sound website www.osha.gov/safeandsound/



SC DEPARTMENT OF LABOR, LICENSING AND REGULATION/SC OSHA

General Information

803-896-7665 askscoша@llr.sc.gov

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ROOFING INDUSTRY-SPECIFIC LADDER SAFETY VIDEO AND JOB-SITE APP

NRCA and its industry partners developed a new ladder safety video showcasing the use of the free National Institute for Occupational Safety and Health ladder safety app aimed at improving ladder safety.

Falls and injuries from ladders are preventable. Misjudging the ladder angle, improper setup and improper use all contribute to accidents. The new video shows how to properly, safely set up and use ladders, including how to use the NIOSH Ladder Safety App.

The NIOSH Ladder Safety app includes an angle of inclination indicator, making it easy to set an extension ladder at the proper angle of 75.5 degrees. This feature allows most mobile devices to provide a visual and audible signal when the ladder angle is set correctly. The Ladder Safety app also includes additional information about ladder selection, inspection, accessorizing and use.

NRCA is pleased to share this video showcasing the NIOSH ladder application for the roofing industry as part of its partnership with The Center for Construction Research and Training, and the United Union of Roofers, Waterproofers and Allied Workers union. This five-year safety partnership has developed many safety-related products for the benefit of roofing worker safety.

To view the ladder safety video, <https://www.youtube.com/watch?v=Et9aeMdosms&feature=youtu.be>. The NIOSH app is available through the NIOSH website, Apple App Store and Android Market.

WOMEN COULD BE THE ANSWER TO LABOR SHORTAGE IN CONSTRUCTION

There are more than 380,000 open construction sector jobs, and women could help fill the gap, according to ForConstructionPros.com.

Women make up nearly half of the U.S. labor force, but only represent 9 percent of the total construction workforce, which has remained unchanged since 2002. If twice as many women worked in the field, the industry's labor shortage would be practically wiped out, according to the Department of Labor.

"There's a perception that it's not an industry friendly to women," says Katrina Kersch, chief operating officer of the National Center for Construction Education and Research. Kersch says this is likely because of the scarcity of images depicting women at work in the industry and stereotypes of male construction

NRCA, continued on next page

NATIONAL ROOFING CONTRACTORS ASSOCIATION

National Roofing Week

June 2-8

Celebrated each year during the first full week of June, National Roofing Week serves as a reminder that the roof is one of the most important components of every structure. It is the first line of defense against natural elements, such as rain, snow or wind, yet it often is taken for granted until it falls into disrepair.

In celebration of National Roofing Week, NRCA will host the We are Family Raffle, sponsored by A.C.T. Metal Deck Supply. Open to all NRCA member companies, the raffle involves companies taking a group photo of all employees—their "roofing family"—and submitting it to NRCA for a chance to win a prize.

National Roofing Week also promotes the good deeds of the roofing industry and stresses the value of professional roofing contractors and the importance of making informed decisions about maintaining or replacing any roof system. During National Roofing Week, NRCA encourages its members to participate by engaging in their communities and informing the public about the essential role roofs and professional roofing contractors play in every community.

Additionally, in the spirit of the industry's generosity, the first NRCA Giving Day will be held June 7 to raise funds to benefit the Melvin Kruger Endowed Scholarship Program and help shape the future of the roofing industry. NRCA's goal is to raise \$100,000 in gifts to provide additional scholarships to college and vocational-technical school students who plan to pursue careers in the roofing or building construction industries.

NRCA also will be sharing its members' stories through its various social media outlets and Professional Roofing magazine. Members throughout the U.S. are encouraged to share their stories of charitable giving, crew and staff appreciation, and signature roofing projects with NRCA.

National Roofing Week 2019 is sponsored by National Women in Roofing (title sponsor); ABC Supply Co. Inc.; A.C.T. Metal Deck Supply; Carlisle SynTec; FlashCo; GAF; Polyglass U.S.A., Inc.; and Sherwin-Williams.

For more information about National Roofing Week, visit www.nrca.net/National-Roofing-Week.

workers as unwelcoming to women.

The Portland Metro Workforce Development Board recognized reasons women are absent in the workforce, which includes lack of industry connections, absence of exposure to construction careers, inadequate funding for pre-apprenticeship programs that serve women, lack of steady work and jobsite culture.

The construction industry offers good, high-paying jobs and a significantly smaller gender pay gap. The Bureau of Labor Statistics reports women in the construction industry earn 97 cents for every dollar a man earns, compared to the U.S. average of 80 cents.

“We need to do a better job telling the story of all the opportunities that exist in this industry,” says Brian Turmail, director of public affairs at the Association of General Contractors. “It’s not your father’s industry anymore.”

TRADE SCHOOL BECOMING PLAN A FOR GENERATION Z

Young Americans are trying to avoid education debt, so they are turning to trade school, according to [vice.com](#).

Generation Z—born between the mid-1990s and early 2000s—are turning to trade schools to avoid racking up large amounts of student debt associated with college.

The job market is over-promising and underpaying, which has young Americans weighing the benefits of blue-collar trades. Refining a specific set of skills that will translate directly into jobs is becoming the more appealing option.

In-state tuition and fees at public four-year universities have increased at an average rate of more than 3 percent above inflation each year in the past decade. Resulting in the average graduate waking away with almost \$40,000 in debt.

The pressure to attend a four-year college remains so strong in American society, many high-paying jobs in the trades are sitting empty, reports NPR.

LABOR SECRETARY SAYS JOB-SITE INSPECTIONS LIKELY TO INCREASE

U.S. Secretary of Labor Alexander Acosta told a House Appropriations subcommittee last week he expects Occupational Safety and Health Administration job-site inspections to increase once a new group of OSHA agents completes training, according to [www.constructiondive.com](#).

In a written statement to the House Labor, Health and Human Services, Education and Related Agencies Appropriations Subcommittee, Acosta said OSHA hired 76 new inspectors during the 2018 fiscal year and it would be a year to three years before

they will be ready to conduct field inspections on their own. Still, he told subcommittee members OSHA conducted 32,000 inspections each year in 2017 and 2018—an increase from 2016 figures.

Acosta said the president is requesting \$557 million for OSHA in his fiscal year 2020 budget request, which would pay for additional staff, including 30 compliance officers and five whistleblower investigators. Acosta also said he was able to take on new OSHA inspectors early in the Trump administration by lifting the White House hiring freeze at the agency.

MOST CONTRACTORS BELIEVE TECHNOLOGY CAN HELP WITH RISK MANAGEMENT

A new report from Dodge Data & Analytics in partnership with Triax Technologies and the International Risk Management Institute shows about three-quarters of contractors believe technologies such as wearables and sensors can help them prevent occupational risks, including construction defects, general liability and property damage, according to [www.constructiondive.com](#).

Among the 135 contractors surveyed, 80 were general contractors, construction managers or design-builders and 55 were specialty trade contractors.

The Using Technology to Improve Risk Management in Construction study found wearables—which include movement sensors, biometric monitoring devices and augmented reality headsets—were one of the top two emerging technology types that can add value regarding risk management.

One respondent said: “Going forward, it is going to be standard operating procedure that when you show up to work, you get issued your wearable, and go along as you’ve always done, but there’s data being collected that will be used to mitigate those risks.”

The second emerging technology was visual auditing, which involves pairing job-site photos or videos with artificial intelligence to detect deviations or risk sources—sometimes in real time—that a human worker may not notice.

Although nearly 60% of respondents are “highly engaged” with technology to conduct employee training, other areas of risk management lack wider technology adoption; technology use ranges from 44% to 47% for safety documentation, job hazard analysis and worker certifications.

Nearly all respondents said they want to be able to digitally collect and analyze safety and risk data, but more than one-third still do not. Resources appear to be the main barrier, and only 19% of respondents include data analytics as part of their budget.

The report found 90% of contractors do not specifically budget for innovation, which can lead to inconsistency in the way com-

NRCA, continued on page 23

10 WAYS TO GET YOUR PROGRAM STARTED



If you are not quite ready to implement a complete safety and health program, here are some simple steps you can take to get started. Completing these steps will give you a solid base from which to take on some of the more structured actions you may want to include in your program.

- 1 — Establish safety and health as a core value.** Tell your workers that making sure they finish the day and go home safely is the way you do business. Assure them that you will work with them to find and fix any hazards that could injure them or make them sick.
- 2 — Lead by example.** Practice safe behaviors yourself and make safety part of your daily conversations with workers.
- 3 — Implement a reporting system.** Develop and communicate a simple procedure for workers to report any injuries, illnesses, incidents (including near misses/close calls), hazards, or safety and health concerns without fear of retaliation. Include an option for reporting hazards or concerns anonymously.
- 4 — Provide training.** Train workers on how to identify and control hazards in the workplace, as well as report injuries, illnesses, and near misses.
- 5 — Conduct inspections.** Inspect the workplace with workers and ask them to identify any activity, piece of equipment, or materials that concern them. Use checklists to help identify problems.
- 6 — Collect hazard control ideas.** Ask workers for ideas on improvements and follow up on their suggestions. Provide them time during work hours, if necessary, to research solutions.
- 7 — Implement hazard controls.** Assign workers the task of choosing, implementing, and evaluating the solutions they come up with.
- 8 — Address emergencies.** Identify foreseeable emergency scenarios and develop instructions on what to do in each case. Meet to discuss these procedures and post them in a visible location in the workplace.
- 9 — Seek input on workplace changes.** Before making significant changes to the workplace, work organization, equipment, or materials, consult with workers to identify potential safety or health issues.
- 10 — Make improvements to the program.** Set aside a regular time to discuss safety and health issues, with the goal of identifying ways to improve the program.



2ND ANNUAL GOLF TOURNAMENT PHOTO RECAP





thank you Sponsors



Beacon Roofing Supply



RADCO ROOFING MEMBER SPOTLIGHT

Trinity Partners – The Foundry (Charlotte NC)



Trinity Partners is a full-service commercial real estate company serving in NC & SC. Radco has worked with Trinity Partners for several years on many of their properties. Because of our long relationship with Trinity Partners, Radco was invited to bid on a roof coating project located in Charlotte's Third Ward neighborhood. The property is called The Foundry. The three buildings that comprise the site provide more than 5,000 sq ft. of commercial space for a variety of distinctive creative local businesses.

THE PROJECT

Radco was awarded two roof coating projects. The first project is a 3,700 square foot metal roof system located at 619 South Cedar Street. The second project is a 6,000 square foot EPDM roof system located at 601 South Cedar Street. Radco used the Graco GH 833 Roof Rig, which is a gas hydraulic airless sprayer, and is the preferred choice for large projects.

Radco pressure washed the entire metal roof system and applied Aldoseal 750 Acrylic Sealant to all base flashing and fasteners on the roof system. Next, Aldocoat 374 Acrylic basecoat was applied at a rate of 1.5 gallons per 100 sf. Once the base coat was applied, Radco finished the project with Aldocoat 374 Acrylic Grizzle Grey topcoat at a rate of 1.5 gallons per 100 sf.

The coating process on the EPDM roof system began with pressure washing the entire roof section. Radco re-adhered all loose/open patches and membrane seams found on roof system. Radco installed a new 4" drain, collector box and downspout. One basecoat of Aldocoat 384 Polyurethane Aluminum was applied at a rate of 1.25 gallons per 100 sq per coat. Lastly there were 2 coats of Aldocoat 395 Silicone applied at a rate of 1.5 gallon per 100 square foot.

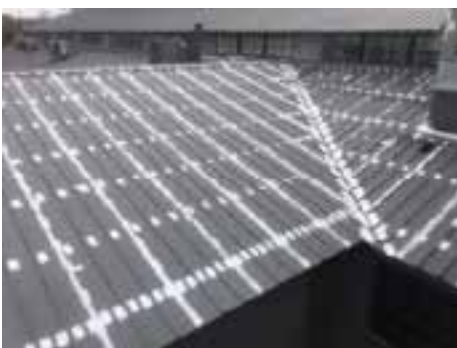
THE CHALLENGES

Before beginning the coating projects, Radco installed plastic over all windows surrounding the roof areas. They also had to remove all cars in a 100' surrounding area to eliminate spray dust particles.

Obstacles during the process were refilling the 1.5 gallons of coating per 100 sf. This consisted of a sprayer and someone who could quickly change out the gallons of coating to eliminate delays. Lastly, to divert water around the high side of the HVAC unit, a cricket system was installed on the EPDM roof.

THE BENEFITS

Trinity Partners were given a 10-year system (materials & Labor) warranty on both roof sections. All coating products offer great benefits. All products used have excellent UV resistance. ALDOSEAL 750 offers a flexible, durable sealer with excellent resistance to mechanical or chemical attack. ALDOCOAT 374 acts as a "breathing" membrane allowing trapped moisture vapor to pass through the film while remaining impervious to exterior mass water penetration. ALDOCOAT 384 offers increased resistance to moisture penetration through its lower moisture vapor permeability values. With excellent adhesion to all substrates and exceptional durability, ALDOCOAT 395 ensures long term waterproofing performance.



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76TH ANNUAL MEETING/ SUMMER CONVENTION

JUNE 19-23, 2019

MARRIOTT RESORT & SPA AT GRANDE DUNES

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843.449.8880

THURSDAY, JUNE 20, 2019

8 am

Golf Outing

Location: Pine Lakes Country Club

Double Tee-Off Times 8:04-8:38 am

12-6 pm

Registration Desk Open

2-3:30 pm

CRSMCA Executive Committee Meeting

3:30-5 pm

CRSMCA Board of Directors & Associate Group Liaisons Meeting

5:30-7 pm

Welcoming Reception

FRIDAY, JUNE 21, 2019

7:30am-12 pm

Registration Desk Open

8-8:45 am

Associate Group Membership Meeting

8:45-9 am

Welcome Announcements | Business Session

To provide conference details, recognize CRSMCA Board members and special sponsors.

9-10 am

NRCA Update, Rod Petrick, Chairman of the Board

NRCA will update CRSMCA members on NRCA activities and trends within the roofing industry and nationwide.

10-11:30 am

Featured Speaker, Brian Parsley | Leadership: Building A Winning Culture

6:30-7:30 pm

Networking Reception

SATURDAY, JUNE 22, 2019

8:30 am-1 pm

Registration Desk Open

9-10:30 am

Past President Roundtable Q & A
Moderated by the 2018 DSA Recipient, Gwyn Abee. CRSMCA Members will discuss current membership needs and important issues.

10:45 am-12 pm

**Stephen Phillips [Hendrick,
Phillips, Salzman & Siegel, P.C.]**
Sponsored by the CRSMC-Self Insurers Fund

1 pm

Beach Social

CRSMCA will host a Beach Social for all attendees to come and enjoy fun and networking. Bring your beach games for all to enjoy and participate in!

6:30-11 pm

Children's Night Out

Children will be provided dinner and snacks; entertained with crafts and movies and games.

6:30-7:30 pm

Banquet Reception

7:30-9 pm

Banquet Dinner & Awards Ceremony

Attendees will dine with the CRSMCA Executive Committee, recognize the leaders of CRSMCA, welcome new Board members, honor the 2019 graduating class of the CRSMCA Master Installers Certification Program, and announce the Gordon M. Waters Distinguished Service Award recipient.

9-11 pm

After Party with The Liberty Street Band

Dance the night away with your fellow CRSMCA friends and family members!



HOTEL RESERVATIONS ARE OPEN UNTIL MAY 29, 2019

Online Reservations:

<http://crsmca.org/meetinginfo>.

[php?id=30&ts=1517237425](http://crsmca.org/meetinginfo.php?id=30&ts=1517237425)

Phone Reservations: 800.228.9290

Group Code: RCMRCMR

76TH ANNUAL MEETING/SUMMER CONVENTION REGISTRATION

COUPLE REGISTRATION FEES:

Regular Couple Registration	\$545
Past President Couple Registration	\$445
RETIRED! Past President Couple Registration	\$225
Children's Night Out (<i>per child, AGES 3 – 12</i>)	\$ 25

PLEASE INDICATE YOUR EVENT(S) PARTICIPATION:

NEW DATE! Thursday, June 20, 2019 **\$125 per player**
Golf Outing at Pine Lakes Country Club
 Tee-Off times begin at 8:30am

 Name Handicap

 Name Handicap

 Name Handicap

 Name Handicap

Saturday, June 22, 2019 **Beach Social** **FREE!**

 Name Age

 Name Age

 Name Age

 Name Age

Saturday, June 22, 2019 **Children's Night Out (3 – 12 years)**
 Time: 6:30pm – 11:00pm **\$25.00 per child (dinner included)**

 Name Age Shirt Size

 Name Age Shirt Size

 Name Age Shirt Size

 Name Age Shirt Size

CANCELLATION POLICY: All requests for refunds *must* be made in writing prior to May 15, 2019 for a 50% refund. **NO REFUNDS will be accepted after May 15, 2019**

ALL REFUNDS WILL BE ISSUED AFTER THE EVENT

RETURN FORM TO: CRSMCA PO BOX 7643, CHARLOTTE, NC 28241

staff@crsmca.org

 COMPANY NAME

 ADDRESS CITY STATE

 PHONE EMAIL

List first and last names, as they should appear on the name badge.

Please check the box if you are a first-time attendee.

(First time attendees receive a \$25 DISCOUNT!)

COUPLE 1

 Name City/State

SATURDAY BANQUET DINNER CHOICE:
 Bacon Wrapped Filet Lemon Rosemary Chicken

 Guest City/State

SATURDAY BANQUET DINNER CHOICE:
 Bacon Wrapped Filet Lemon Rosemary Chicken

REQUESTED ADULT SHIRT SIZES L XL 2XL

COUPLE 2

 Name City/State

SATURDAY BANQUET DINNER CHOICE:
 Bacon Wrapped Filet Lemon Rosemary Chicken

 Guest City/State

SATURDAY BANQUET DINNER CHOICE:
 Bacon Wrapped Filet Lemon Rosemary Chicken

REQUESTED ADULT SHIRT SIZES L XL 2XL

***CRSMCA will make all efforts possible to provide a comfortable and healthy atmosphere.**

Payment Information:

Total Registration Fee: \$ _____

Total Children Fee: \$ _____

Total Golf Fee: \$ _____

GRAND TOTAL \$ _____

Method of Payment*:

Check Enclosed No. _____ VISA | MC | AMEX

***PAYMENT MUST ACCOMPANY REGISTRATION TO BE PROCESSED!**

 Account Number** Exp. Date CVV Code

 Name (as it appears on card) Signature

**** Please be sure to include your credit card information. Due to PCI Compliance, CRSMCA is no longer able to retain your credit card authorization. Thank you for your understanding.**

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CRSMCA would like to thank you for your consideration in purchasing a sponsorship. All sponsorship purchases are applied to the advancement of education to the CRSMCA membership.

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WHERE NOTED:

Listing in the CRSMCA Carolinas Contacts Magazine, Listing in the Annual Program, Listing in the Annual Banquet Program, Listing on the CRSMCA website, Listing in the 2019-2020 CRSMCA Membership Directory, and verbal recognition at the Annual Meeting/Summer Convention

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Included with your sponsorship is ONE complimentary couple and ONE golf registrations

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PLATINUM SPONSOR \$2,000

Included with your sponsorship is ONE complimentary couple registration

🍏 Thursday Reception 🍏 Friday Reception 🍏 Beach Social Chairs 🍏 Saturday Banquet

GOLD SPONSOR \$1,500

Included with your sponsorship is ONE complimentary golf registration

🍏 Audio/Visual Support ~~Saturday Reception~~ 🍏 Children's Activities

BRONZE SPONSOR \$500

~~Badges~~

🍏 PAST PRESIDENT SPONSOR \$200

🍏 GOODWILL SPONSOR \$200

METHOD OF PAYMENT:

Check Enclosed

Amount authorized: \$ _____

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Contact Name _____

Account No.** _____

Exp Date _____

CVV Code _____

Name (as it appears on card) _____

Signature _____

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Please send the form with payment information to the following address or email listed:

**CRSMCA
P O Box 7643
Charlotte, NC 28241-7643**

staff@crsmca.org

****Please return by May 15, 2019 to be listed in the 76th Annual Meeting & Summer Convention Program****

76TH ANNUAL MEETING/SUMMER CONVENTION HIGHLIGHTING YOUR GUEST SPEAKERS



Rod Petrick
(Ridgeworth Roofing Co., Inc.), NRCA Vice Chairman providing the NRCA Update

Rod has been involved in his family's business since 1975 and became president in 2003, servicing commercial industrial and institutional contractor located in Frankfort, Ill. Rod has served as a member of several NRCA committees, including Manual Update, Insurance Board of Governors, Repair Manual Task Force, and Safety Regulatory and Compliance Task Force.

answered with lies more than any other in business. Imagine if your team had a level of commitment as high as the skillset that got them hired? What you can learn: How to fire someone and have them thank you. The 3 keys to getting the best out of your people. Why traditional interviews don't work and how to ask Miss America questions. Proven principles from Fortune 500 leaders to hire, inspire, and have loyal employees. Ways to increase employee performance and reduce organizational churn. How being respected is more important than liked in your company. How to turn malicious obedience into voluntary compliance.

focuses upon legal issues pertaining to the construction industry and particularly the commercial roofing industry. Mr. Phillips has written and spoken extensively regarding construction law topics, construction litigation and construction insurance. He was the principal author of the warranty section of the Commercial Low-Slope Roofing Materials Guide and the Residential Steep-Slope Roofing Materials Guide, published by the National Roofing Contractors Association and the OSHA Citation Defense Manual published by the National Roofing Legal Resource Center. He is the author of "Liabilities of Parties Engaged in Re-roofing Construction Projects," published as part of the Proceedings of the Low-Slope Re-roofing Workshop.



Brian Parsley,
Featured Keynote Speaker, Leadership: Building A Winning Culture

Why are you here? What do you want? These two questions are an-



Stephen Phillips
(Hendrick, Phillips, Salzman & Siegel, P.C.)
Mr. Phillips' law practice

PLEASE REFER TO AGENDA FOR SCHEDULED DATE/TIMES!

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DODGE: E-COMMERCE DRIVING U.S. WAREHOUSE CONSTRUCTION

Written by Kim Slowey, Construction Dive
Published March 21, 2019

E-commerce has changed how Americans shop and, according to a recent report from Dodge Data & Analytics, it's also changing the way the construction industry builds.

Warehouses are being built with greater frequency, but they're also getting bigger. The total square footage of warehouse construction starts increased from 49 million square feet in 2010 to 283 million square feet in 2018, although square footage peaked in 2017 at 300 million. And from 2007 through 2018, the number of warehouse projects of 1 million square feet or more increased from 23 to 48, a figure that represents more than 64 million square feet of space.

The 1 million-square-foot warehouse has become standard, Jeff Bischoff, executive vice president of business development at Lexington, Kentucky-based Gray Construction, told Construction Dive in an interview. Warehouses and distribution/fulfillment centers are some of Gray's specialties. Historically they have made up about 35% of the company's annual revenue, 20% so far for this fiscal year, he said.

Brick-and-mortar retail clients typically have internet sales components and are increasing their warehouse stock. However, Dodge found that most of the growth in e-commerce warehouse construction is coming from online-only companies like Amazon, which broke ground on 23 warehouse projects last year. Almost half of those were 1 million square feet or more, and four were the largest of all warehouse projects that broke ground in 2018.

Gray is an Amazon contractor and is working on a \$325 million

fulfillment center project for the internet retailing giant in Bessemer, Alabama.

Warehouses are usually ascertained by their footprint, Bischoff noted, and they often have multiple levels, so a two-level layout for something known as a 1-million-square-foot building is actually 2 million square feet. And these projects are not just the "shade and shelter" structures that used to define warehouse construction, he added. They require a special level of expertise, not only because of the fast turnaround time, which e-commerce companies are demanding so they can ship their products as soon as possible but also because of the technology that is becoming the norm.

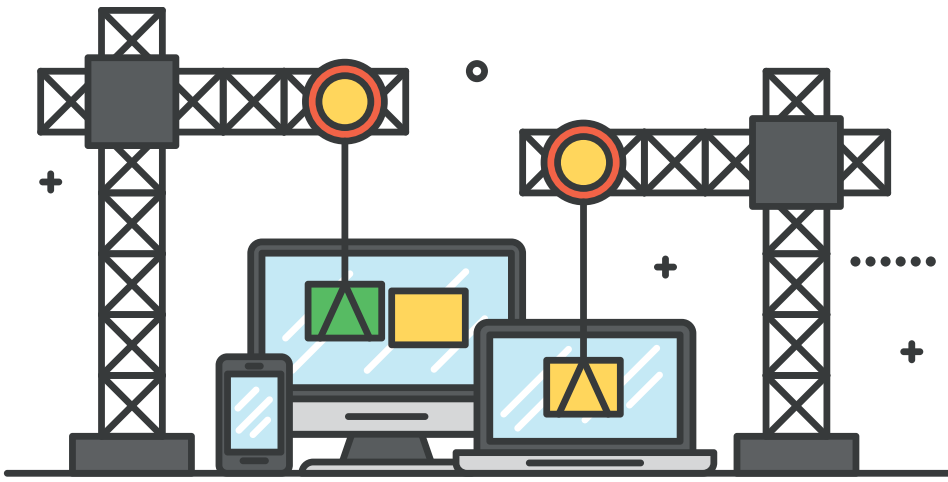
Automated storage and retrieval systems, for example, are featured prominently in distribution and fulfillment center construction, Bischoff said. The robotics-driven technology can retrieve merchandise placed at heights of more than 120 feet with safety and efficiency.

CHALLENGES AND OPPORTUNITIES

The warehouse construction industry has been as hard hit as any other when it comes to the shortage of manpower. "Good, qualified professionals are at a premium," Bischoff said. "We're all searching for employees right now. Getting the best and brightest is something that we're all working hard to do." The same goes for subcontractors.

But even with this challenge, he said business is booming for Gray and its group of core competitors, the size of which is shrinking as warehouse clients become more demanding and projects become more specialized.

"This is as good as we've seen it in our careers," Bischoff said.



ENTERING INTO A NEW TECHNOLOGICAL ERA: THE SMART CONTRACT

Written by Kyle Gretel, Attorney, Cotney Construction Law, LLP,
Published in Florida Roofing Magazine, March 2019

Introduction

The way roofing contractors view contract negotiations and ensuing disputes over contract terms is about to change thanks to the advent of blockchain technology. Through blockchain, modern construction contracts will no longer be necessary in paper form; instead, they will exist digitally. These new “Smart Contracts” will work to provide a number of benefits. Smart Contracts will reduce payment and coordination issues, “paper trail” litigation, and disputes with employees regarding payment for labor.

In order to build a better understanding of what Smart Contracts are and how the roofing industry will benefit from their use, a quick overview of blockchain will help. Blockchain is a database that tracks transactions, in the order they occur, and records the transactions on a permanent ledger that is not susceptible to alteration. One of the more common examples of how blockchain works is Google Drive. Google Drive allows multiple users to access a document at the same time and make changes or additions in real time. These changes are recorded, and a note is made of which user made which changes.

Smart Contracts are based on the same concept as Google Drive and provide ad-

ditional benefits through the use of the if/then principle. For example, if a roofer completes the installation of a new roof on a project, then an inspection is requested to review the roofer’s work. If the roof passes inspection, then the escrow company or third-party will be told to release contract funds to the roofer for successfully completing his/her portion of the project.

Fewer Payment Disputes

The primary benefit that Smart Contracts offer is a major reduction in disputes over payment. Smart Contracts take much of the human error out of the equation and instead relies on an automated system to ensure payments are distributed at appropriate times.

We often have clients requesting our services in order to track down payments that have been earned but not paid. One common culprit that adds to the payment issues is the pay-when-paid clause. The pay-when-paid clause is often included in subcontracts, and payment to the subcontractor is made by the general contractor on the condition that the general contractor receives payment from the owner. This creates havoc for the roofing contractor on a large project be-

Continued on next page

LATEST TECH TRENDS, PREVAILING WAGES, AND THE LABOR SHORTAGE

March 18, 2019

Today, we sat down with LCPtracker’s CEO, Mark Douglas, for a Q&A session on the construction industry’s technology trends, prevailing wage compliance, and the future of construction. Check out what Mark has to say about the industry’s hottest topics below.

Q: What has it been like to play a part in the technological shift in the public sector of construction?

A: It has been quite a ride. There’s a lot of change going on right now in construction. In many ways, I think the industry has been going through some major growing pains – and likely for a few different reasons. But one of those, unfortunately (albeit understandably), has to do with the industry’s past tendencies in being slow to adopt the latest administrative technologies. Naturally, the main focus has always been more geared towards technologies directly impacting the primary objective: building. But more and more often now, organizations are turning to other forms of automation that can greatly contribute to leaner, more efficient processes.

One of the biggest trends over the past few years has been the rise of mobile technology on the jobsite. Tablets and smartphones are being used to streamline the processes of logging worker hours, creating daily progress and incident reports, conducting compliance walk-throughs and interviews, etc. And then, of course, nowadays everyone wants everything integrated. So, contractors and even public agencies overseeing project compliance are asking for these mobile applications to integrate with payroll systems and prevailing wage compliance software.

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Entering, continued from previous page

cause even if the roofer fully performs its scope of work, there is always a chance the owner will withhold contract funds for issues unrelated to the roofing work.

Through the use of Smart Contracts, not only will pay when-paid clauses become unnecessary, they will likely disappear completely. This is because construction funds will be placed with a third-party (i.e., an escrow company) and will be distributed when portions of the project are completed and receive approval, instead of remaining in the hands of the owner who has discretion in making payments.

As previously discussed, once a portion of the project is complete, funds will automatically be released to the contractor who successfully completed the work.

End of “Paper Trail” Litigation

Another benefit of using Smart Contracts to manage construction projects is a reduction in “paper trail” litigation. “Paper trail” litigation, as most roofing contractors are familiar with, is litigation over scope of work, timing, payments, and a host of other contractual issues that arise during most construction projects. It is often the party with the most detailed email history or collection of handwritten change order forms that is victorious in the courtroom after a dispute over payment or work has occurred.

Smart Contracts will exist on blockchain in an unalterable form. Further, these Smart Contracts will provide permanent records of the terms and conditions of the agreement. Since Smart Contracts are not susceptible to change, there will be no dispute over the terms of the agreement. Both sides of the agreement will have access to the same document on the blockchain and will be bound by its terms.

Conclusion

Roofing contractors should be optimistic about the future of construction project management and payment distribution through the use of Smart Contracts and blockchain technology. Smart Contracts offer a potential solution to many of the inefficiencies that plague today’s projects.

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WORKSITES

April 1, 2019 By IIBEC Communications

Research hackers recently proved that they could take over a large construction crane by using nothing more than a laptop, radio hardware, and some code knowledge. Working on behalf of Japanese cybersecurity firm Trend Micro, two hackers arrived at 14 different locations and successfully hacked into devices that controlled the cranes, excavators, scrapers, and other large machinery on construction worksites.

The hackers pinpointed a vulnerability in the communication between the equipment and the controllers. They said that remote-controlled toy cars contain more security than the equipment controllers did. The devices that were hacked into were made by Saga, CircuitDesign, Juuko, Autec, Hetric, Elca, and Telecrane.

Thanks to Trend Micro's work with the U.S. government-funded Computer Emergency Response Team, manufacturers are being alerted to these vulnerabilities and rolling out fixes.

NRCA, continued from page 10

panies handle new technology expenses. Regarding technology, firms are most attracted to ease of use (79%), costs (73%) and the training or support that accompanies the product (51%).

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NRCA is continuing their popular series of FREE WEBINARS on the third Thursday of each month. These new and innovative webinar topics and presenters have been selected to expand your knowledge by giving you new ideas that you can implement into your company immediately. Each webinar offers a unique experience specifically tailored to roofing professionals. Don't miss out on these live opportunities to stay up to date with industry issues affecting your business.

For upcoming webinars and all previous webinar recordings, visit www.nrca.net/webinars.

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WOMEN IN HARDHATS ARE A GROWING TREND IN THE CONSTRUCTION INDUSTRY



*Published on April 23, 2019/in Construction Zone, Featured, Lead, News, People
Written by Kimberly Ballard*

Nationally, women make up less than 10 percent of the construction industry – 9.1 percent according to the National Association of Women in Construction.

That number has been steadily increasing over the past decade, so much that the NAWIC started a Women in Construction Week, held annually in March. It highlights women as viable components of the construction industry and raises awareness of the opportunities available for women in the construction industry.

Hoar Construction, headquartered in Birmingham and contracted to build the new Rocket City Trash Pandas' baseball stadium in Madison, has long since broken through.

When it comes to women wearing hardhats on a construction site, Hoar Construction says women are beginning to dominate in engineering and project management positions within their company. Hoar's female workforce is up to 20 percent, but what kind of challenges do women face on a construction site and how do so many find their way into the business?

MEET AMANDA BLACK, SAFETY MANAGER

Amanda Black is a safety manager for

Hoar Construction and is with the crew at the baseball stadium. Amanda is 29 years old and her parents have worked for Hoar for over 32 years.

"I grew up on a construction site," said Black. "As a child, I picked things apart to see how they were built. Even with toys, I wasn't interested in the thing itself.

"I was more interested in how it was put together and what was inside that made it work."

Black went to college on a scholarship, but the school didn't offer academics in engineering or construction.

She came back to what she knew. Eleven years later, she is working for Hoar and is back in school for construction management.

"No one should be limited in what they want to be, if they have the heart for it," Black said. "You have to have a thick skin to be a woman among so many men, but you need a thick skin in life anyway, right?"

As a safety manager, Amanda notes that everyone on a construction site has a very important job and the more skills sets you have, the more it benefits you.

"I started out as a laborer trying my hands at carpentry work, concrete, and I know how to operate some of the equipment," she said. "I also help with the shell

work on empty buildings and cross over to quality control when they need help.

"It's what you do – you work your way up."

MEET JESSICA YARBROUGH, ASSISTANT SUPERINTENDENT

Jessica Yarbrough grew up learning the cabinetry trade from her father who worked as a boat captain three days on and three days off. Cabinetry was a hobby he excelled in and still does.

Jessica can build cabinets, but she chose not to pursue the craftsmanship side of construction. Instead, she has spent the past 7½ years traveling from project to project with her husband who is a superintendent for Hoar Construction.

Yarbrough has worked on a Disney World project in Orlando; built a physical fitness facility for the Army in Clarksville, Tenn.; built an outdoor shopping center in Baton Rouge, La.; and a commissary at Naval Air Station Jacksonville (Fla.)

Now she is in Arlington, Va., working for the first time without her husband on a 12-story midrise apartment building.

"I am an exterior scan superintendent," said Yarbrough. "I am responsible for the brick, metal panel, glass storefront, and glass curtain wall that makes up the exterior on this project. Every day, I oversee the work of our trade partners, including brick masons, a metal panel guy, our window installer, and ironworkers.

"I work a little bit with the exterior framers and with our air barrier system, and I handle all the scheduling, coordination, and I manage workflow to ensure the project gets built on time."

Yarbrough started college in premed but, while in the process of switching to nursing, an advisor noticed she was taking extra math classes. She asked Jessica if she was good at math and when she answered "Yes," they encouraged her to pursue engineering rather than the medical field.

"I feel I have grown into the job," she said.

“There were opportunities for workers to pull a fast one on me or to get by with stuff but, instead, we worked through some teachable moments that made us all better at our jobs.”

Since then, there have been only a handful of times when she felt being a woman negatively impacted what she was trying to do.

“I find the day-to-day challenges – getting the job done on time and on budget – is harder than any challenges I face as a woman in a male-dominated field.”

MEET SARAH HORTON, PROJECT ENGINEER

Sarah Horton joined Hoar Construction officially this past year as a project engineer, but she worked for Hoar throughout college and was a co-op student with them in 2014. Sarah has a degree in architectural engineering from the University of Alabama but, from a general contractor’s perspective, she is at the management level of the job cost perspective.

Most of the work Sarah is involved with is renovated buildings rather than new

construction, and she has been assigned to the Samford University campus in Birmingham. Her most current project is the University Center.

“We went in and took everything out including the slabs used to create two floors,” said Horton. “Now we have a shell of a building all on one floor, so we can start over.”

Structural and procedural changes are commonplace in renovations and Sarah’s architectural engineering background allows her to run software programs that a typical project manager ordinarily wouldn’t, such as the popular Building Information Modeling software.

“Typically, when we get a set of documents, they are printed on paper, but obviously building construction is seen much better in 3-dimension,” Horton said. “I use BIM and my architectural engineering background in HVAC design, power distribution and design, and structural concepts of building to get that into a 3-D space and coordinate changes from a general contractor’s perspective.”

“Being able to run BIM gives us some control over the original designs using Virtual Design & Construction (VDC), so we can say, ‘You designed this, but we have a sprinkler system that must fit in this space too and it has certain code requirements. Let’s work together to make it all fit in this space with 25-foot high ceilings.’ ”

Sarah was exploring scholarship options while enrolled at the University of Alabama studying dentistry when she was approached by the engineering department, who had her test scores in math and science.

“Because I was a female, I was going to receive a nice engineering scholarship to declare general engineering as my major,” she said. “After one engineering foundations class, I was hooked!”

“I agree with Amanda that you have to have thick skin, know who you are, and from a professional standpoint, be confident and understand the depth of your experience,” she said. “Now when I sit down at the table, I may be the only woman at that table, but I feel confident enough to give my opinion.”

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RESIDUE ON GLOVES

Recently Steve, a roofing contractor in North Carolina was on a crew installing a flat roof. Wanting to protect his hands from the chemical cleaner that he was using to clean the roofing membrane, he was wearing protective gloves. When it was time for a short break, Steve pulled out a cigarette, reached into his pocket for his lighter and tried to light his cigarette. Before he could get his cigarette lit, the flame from his lighter ignited the gloves that Steve was wearing, as they

had highly flammable membrane cleaner residue on them. The result was severe burns on his hand.

Not long ago, a cable installer in Texas was climbing a ladder to work on some overhead lines. To waterproof the cable splices, he and his coworker used a silicone-based product, which left residue on the gloves, and the ladder rungs. As the worker descended the ladder, he slipped on the slick rungs and fell more than 13 feet, hitting the concrete below headfirst—a fatal injury.

In yet a third incident an employee was working with a car battery and gloves on to protect his hands from battery acid. However, wind blew some debris in his eye, and out of pure instinct he wiped his eye, but failed to remove his glove first. The residual battery acid on his glove caused a significant chemical burn to his eye.

In all three of these incidents, the employee was wearing gloves to protect their hands from the hazardous properties of a chemical. In all three of these incidents, the gloves fulfilled their purpose. However, in all three of these incidents the chemical residue on the gloves created a hazard that the employee failed to consider.



DISCUSS WITH YOUR CREW

- What residue might get on gloves on our current jobsite, and what hazard might it create?
- Other than being aware of the hazards that might be created by residue on gloves, what are some other things to remember about wearing gloves at work?
- Do not wear gloves while operating a rotating equipment like a drill or circular saw.
- Wear gloves that fit your hand and are right for the work being performed
- Prior to handling chemicals, read the Safety Data Sheet (SDS) to know what, if any hand protection is needed. For example, if a butyl rubber glove is recommended, then a butyl glove should be used. Substituting a regular rubber glove, unless recommended, could prove disastrous. If unsure as to the proper protection, ask your supervisor.

RESIDUO EN GUANTES



Recientemente, Steve, un contratista de techos en Carolina del Norte, estaba en un equipo que instaló un techo plano. Queriendo proteger sus manos del limpiador químico que estaba usando para limpiar la membrana del techo. Cuando llegó el momento de un breve descanso, Steve sacó un cigarrillo, buscó su encendedor en el bolsillo y trató de encenderlo. Antes de que pudiera encender su cigarrillo, la llama de su encendedor encendió los guantes que Steve estaba usando, ya que tenían residuos de limpiadores de membrana altamente inflamables. El resultado fue quemaduras severas en su mano.

No hace mucho, un instalador de cables en Texas estaba subiendo una escalera para trabajar en algunas líneas aéreas. Para impermeabilizar los empalmes de cables, él y su compañero de trabajo utilizaron un producto a base de silicona, que dejó residuos en los guantes, y los peldaños de la escalera. Cuando el trabajador bajó la escalera, se deslizó por los

peldaños y cayó más de 13 pies, golpeando el concreto debajo de la cabeza— Una lesión fatal.

En un tercer incidente, un empleado estaba trabajando con una batería de auto y guantes para proteger sus manos del ácido de la batería. Sin embargo, el viento sopló algunos escombros en su ojo, y por puro instinto se limpió el ojo, pero no se quitó el guante primero. El ácido residual de la batería en su guante causó una quemadura química significativa en su ojo.

En los tres incidentes, el empleado llevaba guantes para proteger sus manos de las propiedades peligrosas de un producto químico. En los tres de estos incidentes, los guantes cumplieron su propósito. Sin embargo, en los tres incidentes, el residuo químico en los guantes creó un peligro que el empleado no tuvo en cuenta.

DISCUTA CON SU EQUIPO

· ¿Qué residuos podrían quedar en los guantes en nuestro sitio de trabajo ac-

tual y qué peligro podría crear?

- Aparte de conocer los peligros que pueden crear los residuos en los guantes, ¿cuáles son algunas otras cosas que debe recordar sobre el uso de guantes en el trabajo?
- No use guantes mientras opera un equipo giratorio como un taladro o una sierra circular.
- Use guantes que se ajusten a su mano y sean adecuados para el trabajo que se está realizando.
- Antes de manipular químicos, lea la Hoja de datos de seguridad (SDS) para saber qué se necesita, si se necesita protección para las manos. Por ejemplo, si se recomienda un guante de caucho butílico, entonces se debe usar un guante de butilo. Sustituir un guante de goma normal, a menos que se recomiende, podría resultar desastroso. Si no está seguro de la protección adecuada, consulte a su supervisor.

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