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## Out to lunch

Removing yourself from your office to have lunch may be better for your company

by Ambika Puniani Reid



View 10 reasons to eat lunch away from your desk at [professionalroofing.net](https://www.professionalroofing.net).

The other day, I was thinking about how the COVID-19 pandemic has changed me in unexpected ways. For example, I used to hate grocery shopping, but now I find it's better than ordering delivery and receiving green onions when I ordered broccoli. And I enjoy being home more often than I used to.

But a recent article, "The Future of Work is Lunch" in *Businessweek*, caught my eye because it discussed something that hasn't really changed for working people in the U.S.: the weekday lunch.

When working, most people eat lunch at their desks, bringing in leftovers or a hastily made sandwich. And that's primarily because, as *Businessweek* reports: "During the past half-century, the workday lunch has been cast as a wasteful indulgence, the enemy of productivity ... . Before the pandemic, more than 60% of U.S. professionals ate lunch at their desks, more than half ate lunch alone, and over a third rarely, if ever, took a lunch break at all."

But taking a true lunch break can have more benefits than drawbacks.

*Businessweek* reports a 2016 Finnish study demonstrated workers who took time to get away for lunch for an entire year were able to detach themselves physically and psychologically from their jobs and showed increased energy when they returned to work in the afternoon.

In fact, French labor codes prohibit workers from eating lunch at their desks or in the workplace in general (though this briefly paused during the pandemic). Employees must leave the premises to have their lunches (even if brought from home) for a change of

scenery and spend time with colleagues away from the workplace. They also are discouraged from speaking about work-related topics.

This short freedom from work can allow employees to look at the world in a new way, opening up channels to imagination that can benefit their work when they return to their desks.

"Even something as banal as an advertisement glanced on the way to the elevator can lead to a new idea or thought about a product or project," says the *Businessweek* article author.

Maybe as a belated New Year's resolution, you can try to take your lunch away from the office and encourage your team to do the same. I started doing this, and, like me, you might be pleasantly surprised.

*Ambika*

**AMBIKA PUNIANI REID** is editor of *Professional Roofing* and NRCA's vice president of communications.

# CLOSE-UP



American Building Components, Houston, recently donated metal roof and wall panels to build a new barn for Cassidy's Cause, a nonprofit organization that helps individuals grow and develop through recreational activities with horses, in Paducah, Ky.

A new 40- by 40-foot hay barn was constructed on-site to match an adjacent storage building. ABC's 29-gauge Imperial Rib® panels in Koko Brown were used for the roof, and Imperial Rib panels in Light Stone were used for the walls.

Cassidy's Cause relies on donations and fundraisers to keep the facility on 22 acres operational. The new hay barn saves volunteers from having to load, haul and unload hay from the former storage facility a few miles away.

To submit a photo to Close-up, email [professionalroofing@professionalroofing.net](mailto:professionalroofing@professionalroofing.net). Submittals should include a photo, as well as a description of the photo.



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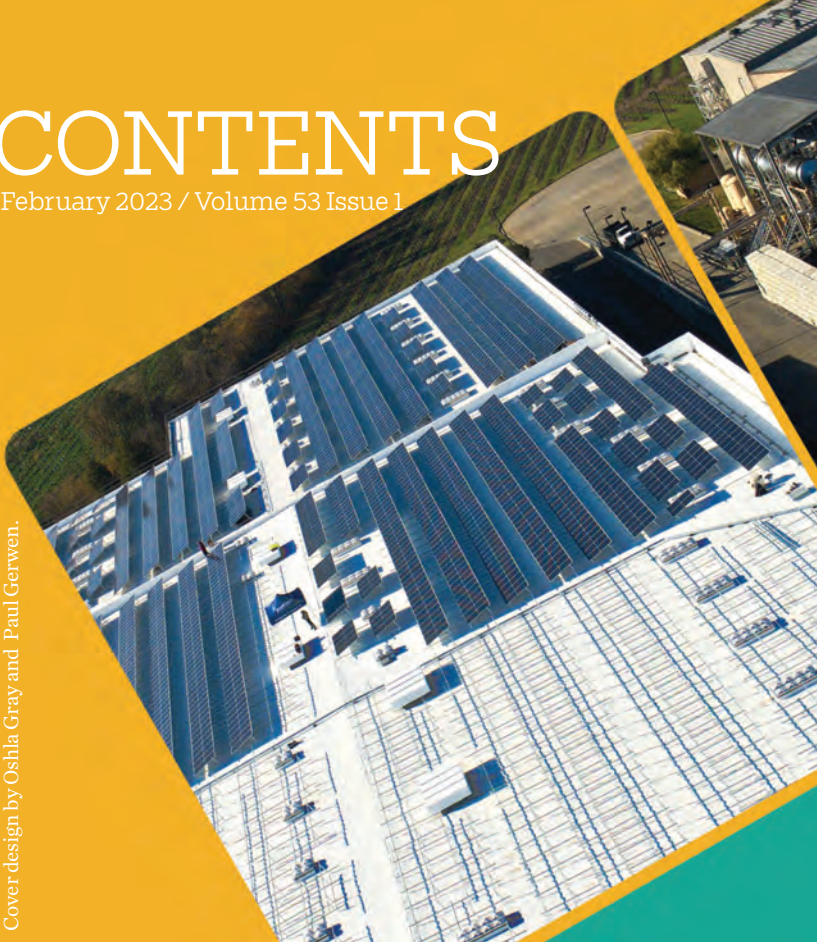
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February 2023 / Volume 53 Issue 1

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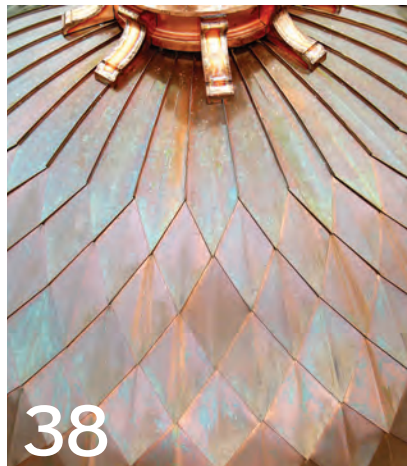
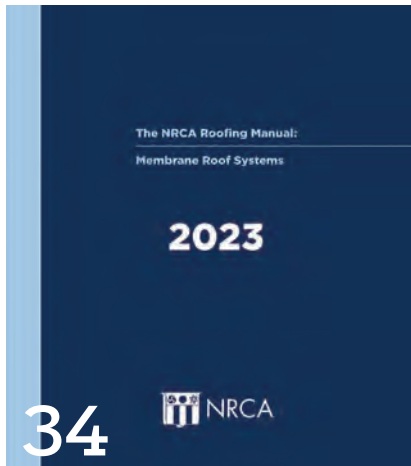
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**Mission:** *Professional Roofing* provides information, insight and innovation to help every roofing professional thrive.

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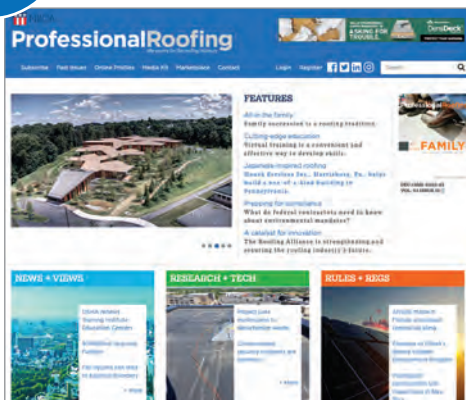
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To read exclusive content related to the articles in this issue, go to [professionalroofing.net](http://professionalroofing.net).



**ProfessionalRoofing** (ISSN 0896-5552) is published 10 times per year by the National Roofing Contractors Association, 10255 W. Higgins Road, Suite 600, Rosemont, IL 60018. Periodicals postage paid at Des Plaines, Ill., and additional mailing offices. Postmaster: Send address changes to *Professional Roofing*, 10255 W. Higgins Road, Suite 600, Rosemont, IL 60018. Statements of fact and opinion are made on the responsibility of author alone and do not imply an opinion on the part of the officers or the membership of NRCA. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the publisher.



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# #HASHTAG

## #GIVING

According to NBC News, in 2021, 35 million people participated in Giving Tuesday, raising \$2.7 billion in the U.S. for charity—up 9% compared with 2020. Like many others, the roofing industry participated in #Giving Tuesday and continues to give all year long. Check out how the roofing industry gave back and shared on social media!



**Beacon Building Products**  
November 29 at 9:40 AM · 🌐

Happy #GivingTuesday! Today, Beacon is highlighting Beacon CaReS, a crisis relief support fund dedicated to helping our employees in times of unexpected hardship. Visit <https://go.becn.com/BeaconCaresFacebook> to support this worthy cause. #TeamBeacon #PutPeopleFirst #GivingTuesday



**PB Roofing is in Brockton, Massachusetts**  
November 29 at 1:41 PM · 🌐

For our 2022 #givingtuesday PB Purpose initiative, we are proud to share a special project led by our New England Field Team Lead Matthew Maloney. Matt and his team dedicated their spare time renovating the roof of Keating Hall, home of the Brockton, MA Firefighters Local 144 with fully-adhered #EPDM.

Established in 1827 as a "Bucket Brigade", the Brockton Fire Department is now a modern firefighting force as an ISO Class 1 department with the highest per-capita rate in Massachusetts. We're privileged to have made a difference for the brave members of this wonderful organization.

#givingtuesday #nonprofit #givingtuesdaynow #givingtuesday2022 #charity #givingseason #givingback #tuesdaymotivation #dogood #brocktonmassachusetts #brocktonmass #bethechange



**Sika USA**  
November 29 at 9:36 AM · 🌐

Yesterday a group of our Sika employees volunteered in a local community in Orlando, FL. We partnered with [Rebuilding Together Tampa Bay](#) to help those in need. The day included exterior painting, landscaping, hygiene packages, and lunch packages. Great work team! #CommunityService #Sika #GivingBack #RebuildingTogether



**CentriMark Corporation**  
November 22 at 12:03 PM · 🌐

Thank you, all CentriMark offices across North America, for your donations and volunteering with your local food banks and other non-profits! Giving back is the best way to celebrate the season! #Thanksgiving2022 #CentriMarkCaresintheCommunity #nonprofit #donate #givingtuesdaynow #giveback #charity #givingback #community #giving #philanthropy #support #volunteer #donations #donation #dogood #give #nonprofitorganization #tuesdays #makeadifference #tuesdaymotivation #mytowntuesday #help #GivingTuesday



**A1 Roofing is at A1 Roofing.**  
November 18 at 7:59 AM · Port Jefferson Station, NY · 🌐

👍❤️ Thank you to everyone that contributed to our Thanksgiving Food Drive providing full meals to our neighbors in need this Thanksgiving Long Island Cares

❤️👏 Special thanks to [BACKSTAGE STUDIO OF DANCE](#) Competition Dance Team and Lisa Gartland for generously contributing to our food drive as well

#a1roofingny #licares #givingback





**PABCO Roofing Products**  
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➡️ Supporting local initiatives! #TisTheSeason



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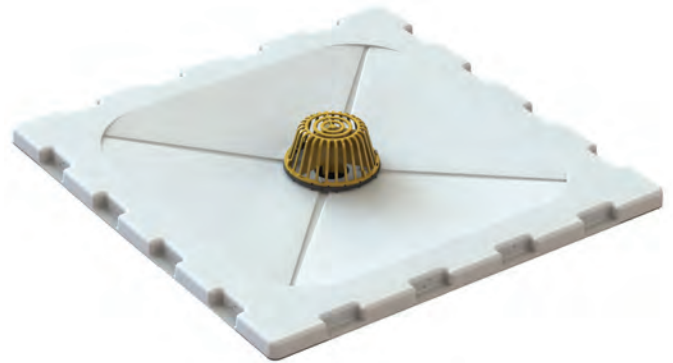
Social responsibility is a long standing part of who we are at **#GuyRoofing**. We are proudly committed to supporting and making a difference in our community by making it a better place and giving back by lending a helping hand. ❤️ **#GivingTuesday**



## Drain sumps for TPO roof systems

**OMG® Roofing Products** has introduced its OMG Sump RetroDrain, a prefabricated TPO drain sump with integrated OMG retrofit roof drain said to enhance rooftop productivity. OMG Sump RetroDrains are designed to eliminate the multistep process of field fabricating a drain sump and reworking or installing a drain on TPO membrane roof systems. A standard 9¾-inch drain stem accommodates most field conditions and can be shortened if necessary. The U-Flow Mechanical Seal reportedly provides a secure connection to the existing drain leader, and a heavy-duty cast aluminum strainer dome features OMG's Vortex Breaker Technology for better flow. OMG Sump RetroDrains are flashed at the highest point of the sump and not around the drain for improved quality.

[omgroofing.com](http://omgroofing.com)



## Eye visor compatible with hard hats

**Milwaukee Tool** has made available BOLT™ Eye Visors compatible with hard hats. The eye visor is classified as spectacles and reportedly can be used in place of safety glasses with a z87.1+ rating. Designed with a variety of face shapes in mind, the visor features dual pivoting adjustment points for a comfortable fit. Built to withstand harsh job-site conditions, the eye visor lenses are treated with an anti-scratch exterior hard coating and fog-free interior coating. The eye visor is installed on a hard hat without tools using a slide mechanism to secure into the BOLT front mount of Milwaukee head protection. One BOLT Eye Visor model is compatible with all Milwaukee head protection and another is specifically designed with low-profile arms for use with Milwaukee safety helmets.

[milwaukeetool.com](http://milwaukeetool.com)

## Silicone sealant now available in clear

**Progressive Materials** has made available its FG 400 Series Pro Patch Silicone Sealant in clear. The heavy-duty silicone reportedly is ideal for flashing prep, seam prep or repairing cracks on commercial roof systems. The clear color works in tandem with Progressive Materials' translucent skylight silicone or as a utility coating that can be used on any colored surface to preserve its appearance. FG 400 Series Pro Patch Silicone Sealant is available in 2-gallon pails and 20-ounce sausage tubes.

[pmsilicone.com](http://pmsilicone.com)





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## Monitor project progress in real time

**Linarc Inc.** has introduced Linarc construction project management software. Linarc software is said to eliminate the need for multiple systems by providing everything needed to manage construction projects successfully in one platform. The software reportedly also integrates easily with standard project management solutions and other software. A collaborative scheduling feature uses predictive analytics to allocate resources to individual tasks to eliminate delays and links work crews, materials and equipment to the schedule. Progress is updated in real time. Project owners gain insight into work progress and budget expenditures; supervisors and foremen can control work assignments and material deliveries; and field crews receive detailed work assignments with documents, photos and visual cues to keep them safe, productive and on task.

**linarc.com**



## Transform scaffolding into job-site storage

**KNAACK®** has added Scaffold Armour™ to its mobile storage system offerings. Designed to enhance mobility and efficiency on job sites, Scaffold Armour enables contractors to organize and securely store construction tools, equipment and materials. Said to install easily in less than 20 minutes, the panel system converts standard 6-foot Baker-style scaffolding into a lockable storage solution. Scaffold Armour assembles with no exposed hardware and overlapping panel edges, and the welded and recessed lock housing supports several padlock makes and models. The panels' powder-coat finish reportedly protects against the elements. A built-in electrical cord pass-through provides access for power equipment recharging or Wi-Fi bases. Scaffold Armour panels are added from back to front, and the resulting structure fits through 36-inch door frames and holds up to 1,000 pounds.

**knaack.com**

## Kit with impact wrench and 18-volt battery

**Bosch Power Tools** has added the PROFACTOR 18V Connected 1/2-Inch Impact Wrench Kit to its line of PROFACTOR tool offerings. The kit includes the impact wrench with friction ring and a CORE 18V 8Ah PROFACTOR performance battery, as well as an 18-volt fast charger, connectivity module, joist hanger and carrying bag. The impact wrench provides 740 foot-pounds of fastening torque to drive large fasteners quickly and features advanced modes to help prevent workpiece and fastener damage. The wrench's friction ring is said to allow for fast socket changes, and an LED light illuminates dark workspaces. The PROFACTOR performance battery is compatible with Bosch 18V tools and reportedly enables a longer tool runtime.

**boschtools.com**





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OR [NRCA.NET](http://NRCA.NET).





## What do you stand for?

Take time to build your company's image

by McKay Daniels

**B**rands, goodwill, image and emotion all tie into how we feel about objects, products, people and companies. Actors and politicians spend millions of dollars to shape their public images. And the public goodwill of companies like Nike, Apple and Coca-Cola is worth billions.

What's your company's public image?

"Brand ambassador" is a relatively new term, and it's used mostly to describe a young person who is famous on an app and earns a living by saying nice things about products. But brand ambassadors always have existed in some form, and for most companies, the paramount brand ambassadors are frontline employees.

Have you ever encountered a grouchy flight attendant? How did that experience make you feel about the airline, and what goodwill did it generate?

What about an inattentive restaurant server? Or a checkout clerk who behaves as though you're inconveniencing him or her for getting your groceries? How did you feel when that interaction ended?

For the most part, you likely rolled with it and didn't change your purchasing behavior. After all, you probably are not going to change grocery stores just because you had one rude experience. But what about a rare interaction in an area of significance or importance ... like buying a house or



replacing a roof? Folks will remember a bad realtor or foreman experience forever.

I recently visited a contractor who spends a considerable amount of time and money cultivating a decades-long public impression of professionalism based on the appearance of the company's crews and vehicles. Instructing his team to have the professional look of UPS drivers and professional outcomes of the Maytag repairman, Empire Roofing President Ronnie McGlothlin established the beginning of an internal culture and external brand that defines his company 40 years later.

Clean, nice trucks (inside and out!) are the standard; each is washed weekly in the on-site company car wash. If a worker gets mud on the tires from a job site, he or she is told to clean the truck before punching out that night; no mud is allowed to be tracked into the yard. He also has his crews keep the shop floor so clean "they could eat off it," and after visiting with him for a few hours, I bet at some time in his career he's done exactly that just to prove the point to a team member.

Not every contractor has Ronnie's exacting standards, but many do, and every company should be conscious of how its crews represent their companies not only in verbal interactions with customers but also in their nonverbal, visual, first-impression encounters. Your employees are your brand. How they present themselves reflects directly on your company and the brand, image and goodwill you are trying to build.

This premise holds true for internal audiences, as well. Prospective employees are going to notice the peers they may be working with. How do they look and behave, and what tone does the company set?

This isn't new advice. Andre Agassi said "image is everything" (with a mullet haircut!) in a multimillion-dollar ad campaign more than 30 years ago. But it's worth a

reminder because, well, image is a key part of everything.

A number of roofing company owners I've met wear ties most of the time regardless of the venue or circumstances. I once asked NRCA Executive Committee member Rudy Gutierrez, president of Shell Roofing Solutions, Chino, Calif., why he dresses so formally. (He could roll right out of a roofing event and go to a wedding and still be more nattily dressed than most groomsmen and surely anyone on the guest list.)

And though I asked the question in a joking manner, Rudy's answer was dead serious: "Image sets the tone for success. I dress professionally to elevate our industry's image. There are assumptions and stigmas that go with being a roofing contractor. I feel we must go beyond to break down the stigma and prove we're a professional industry."

Roofing's public image certainly can be stronger, and many want to make it so. Remaining cognizant of first impressions and reminding our teams about their roles in building up the image of your company and the industry at large is time well spent. 🌟🌟🌟

**MCKAY DANIELS** is NRCA's CEO.

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## Survey reveals challenges employers face regarding PPE usage

A recent survey conducted by personal protective equipment provider J.J. Keller, Neenah, Wis., shows most safety managers and coordinators have difficulty ensuring workers wear PPE, according to [constructiondive.com](https://www.constructiondive.com).

Survey respondents mainly were from the manufacturing, transportation and construction sectors, and most were responsible for buying PPE, training employees regarding proper use and ensuring employee compliance.

More than 70% of respondents said employees have communicated they do not wear PPE because they simply do not want to, and half of respondents said employees do not believe PPE is necessary or say it makes the job more difficult.

One in three respondents indicated buying PPE in the right sizes was a struggle—55% said larger sizes were needed and 41% said smaller sizes were needed. The sizing issue most often related to head and upper body protection; 53% of respondents said they have trouble with both. Thirty-five percent of respondents said they struggle to find PPE to fit female employees. Respondents emphasized finding the right fit is essential so the PPE fits workers comfortably for the entire workday.

Open-ended comments to the survey indicated managers also struggle to ensure proper PPE usage in heat. A previous J.J. Keller survey found 93% of workers' environments reach temperatures in which using PPE could raise the risk of heat illness. Also, about half of respondents said they sometimes experience supply chain delays—leaving them without crucial protective equipment—and one in four experience delays often.

## Owens Corning enhances shingle recycling efforts

NRCA One Voice member Owens Corning, Toledo, Ohio, has announced enhanced shingle recycling efforts and a goal to recycle 2 million tons of shingles per year in the U.S. by 2030.

“Owens Corning has a strong sustainability foundation and has set ambitious goals. This includes establishing circular economy business models that ensure materials in our products remain in the economy indefinitely. We are focused on bringing these breakthrough solutions to life as a critical next chapter of work in our sustainability journey,” says David Rabuano, Owens Corning’s senior vice president and chief sustainability officer. “Our mission is to build a sustainable future through material innovation and with this enhanced focus on shingle recycling we continue to make progress.”

The company is focused on two methods

of shingle recycling: recycling old shingles into new shingles and recycling shingles into asphalt pavement. Both approaches intend to reclaim 100% of shingles to eliminate waste.

Owens Corning is piloting asphalt shingle recycling in partnership with ASR Systems, Bristol, Tenn., and CRS Reprocessing Services, Louisville, Ky. Located in Indianapolis at Indiana Shingle Recycling, the pilot, to be constructed and run by Indiana Shingle Recycling and CRS Reprocessing Services, will use several proprietary processes for deconstructing post-consumer and post-industrial shingles to extract and reuse individual component raw materials. These raw materials will be transported to Owens Corning manufacturing facilities where they will be tested in the production of new shingles.

Owens Corning also is leveraging its expertise in asphalt innovation to increase the use



Learn more about Owens Corning’s shingle recycling efforts at [professionalroofing.net](https://professionalroofing.net).

of recycled asphalt shingles in the paving market. By working closely with paving contractors, Owens Corning scientists have provided technical guidance for incorporating recycled shingles in an asphalt mix design that meets federal and state paving performance requirements. Through this work, Owens Corning has diverted 40 million pounds of used shingles from the landfill into pavement since 2020.



## Be prepared to handle an employee’s mental health challenge

As an employer, you must be ready to respond effectively if an employee comes to you to talk about his or her mental health. How can you ensure you are prepared for the conversation?

*Harvard Business Review* offers the following tips:

- Be sure you have a baseline knowledge of available benefits and where to direct employees for support.
- Set boundaries to ensure you are providing compassion and guidance rather than playing the role of a therapist. Ask questions about the effects of the employee’s mental health challenges and discuss necessary work accommodations but avoid questions about what is causing the challenges.
- Make the conversation about the employee and his or her needs. You could ask what he or she needs from you—whether it is listening, being directed to appropriate resources or providing a distraction such as taking a walk together.

As part of its commitment to safety in the roofing industry, NRCA is a member of the Construction Industry Alliance for Suicide Prevention, a group of key industry organizations committed to promoting the safety and well-being of construction workers.

The Construction Industry Alliance for Suicide Prevention offers many resources on its website, [preventconstructionsuicide.com](https://preventconstructionsuicide.com), for employers and workers. Employers can take a pledge to STAND Up for suicide prevention by creating safe cultures, providing training to identify and help those at risk, raising awareness about the suicide crisis in construction, normalizing conversations around suicide and mental health, and ultimately decreasing the risks associated with suicide in construction.

## Top 10 causes of construction claims or disputes

The fifth annual Crux insight report on global construction claims and disputes shows construction project timelines are being delayed because of the war in Ukraine, supply chain disruptions and rising materials costs, according to [constructiondive.com](https://www.constructiondive.com). Inflation also now threatens project outcomes in the U.S.

“Many of the dominant causes of claims and disputes—notably change in scope, unforeseen physical conditions and deficiencies in design or workmanship—arise from short-sighted attempts to save time and money up front,” says Toby Hunt, partner at HKA, a London-based business consulting and services firm.

The report lists the following as the top 10 causes of claims or disputes in the Americas:

1. Change in scope
2. Physical conditions were unforeseen
3. Incorrect design
4. Workmanship deficiencies
5. Incomplete design
6. Poor management of subcontractors, suppliers or their interfaces
7. Design information was issued late
8. Contract management or administration failure
9. Contract interpretation issues
10. Restricted or late access to the job site

The report recommended construction firms move toward digitalization, at least streamlining commonly used paper processes. It also emphasized team members involved must stay up to date with the latest technology and should share access to digital platforms.

## Late payments cost the construction industry \$208 billion in 2022

A September 2022 survey from Austin, Texas-based construction finance software firm Rabbet shows late financial payments cost the construction industry \$208 billion in 2022—a 53% increase compared with \$136 billion in 2021, according to [constructiondive.com](https://www.constructiondive.com).

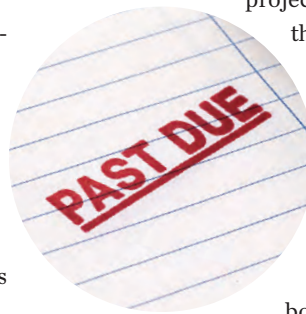
However, the report stated though the increase was large, it was typical considering the current economic climate, which is affected by inflation and interest rate increases.

The survey asked 137 general contractors and subcontractors in the U.S. about how they managed working capital, bidding decisions and project risks while facing slow payments during

the previous 12 months. Fifty-seven percent of respondents were general contractors, and 43% were subcontractors; about half of each group were small businesses worth less than \$5 million.

Thirty-seven percent of all respondents said late payments led to delays or work stoppages, and some contractors said they boosted their bids from 5% to 10% to help absorb costs.

According to the survey, 49% of subcontractors waited 30 days or more for their payments to come through, which basically was unchanged from 2021. Sixty-two percent of general contractors reported financial costs resulting from floating payments.



## Percentage of women in construction hits all-time high

Data from the Bureau of Labor Statistics shows the percentage of construction workers who are women has steadily increased since 2016 and is at an all-time high, according to [constructiondive.com](https://www.constructiondive.com).

An analysis from *The Washington Post* found as of August 2022, 14% of all construction workers were women; the previous high point for women working in construction was in October 2009 at 13.5%.

Hispanic and Latina women have largely contributed to the growth; the number of Hispanic and Latina women in the industry grew 117% during the past six years, and in 2020, the share of Hispanic and Latina women overtook the share of white women in the industry. The rates include women in office roles.

As of August 2022, Washington, D.C., had the highest percentage of women in construction at 17.6%. Arizona and Florida had 15.6% and 14.5%, respectively, and Delaware had the lowest percentage at 6.8%.

The ongoing labor shortage has led to more women entering the construction industry as companies struggle to meet demand. Additionally, labor groups and employers have tried to remove hurdles to help broaden the pool of trade workers.

Experts recommend employers set goals for diversity hiring and focus on inclusion and safety, including using inclusive language on job postings and employee materials to communicate opportunities for women.



Visit NRCA's workforce recruitment webpage at [professionalroofing.net](https://professionalroofing.net) for tools to help recruit and onboard new workers.



## The code's next edition

The 2024 I-Codes are nearing completion

by Mark S. Graham

From Sept. 14-18, 2022, NRCA's technical services staff participated in the International Code Council's Group B public comment hearing in Louisville, Ky., for development of the 2024 I-Codes. The hearing included 254 code change proposals, several of which were roofing-related. Following is a brief overview of the process, highlights from the roofing-related proposals considered and tentative timetable for publication of the 2024 I-Codes.

### Code development process

ICC's code development process for the 2024 I-Codes was split into two groups. Group A occurred in 2021, and Group B occurred in 2022. From March 27 to April 6, 2022, ICC held its Group B committee action hearings, which was the first round of consideration for more than 750 Group B code change proposals. NRCA submitted 28 code change proposals, and 116 other proposals were on NRCA's watch list as having some effect on roof system design and installation. Fifteen of NRCA's code change proposals were approved by the Group B committees.

The Group B public comment hearing was an opportunity for code change proponents, opponents and the public to submit comments on



specific code change proposals acted upon at the committee action hearings. Code change proposals not receiving any public comments were placed on a consent agenda for ICC's governmental voting members' (code officials') approval.

Code change proposals with public comments—those not on the consent agenda—were considered individually and voted on by ICC's governmental voting members.

### Public comments

No public comments were submitted on 14 of NRCA's 15 code change proposals approved at the Group B committee

action hearings. As a result, these 14 code change proposals were approved by ICC's governmental voting members.

NRCA submitted public comments on three proposals and had 28 other proposals on its watch list as having some effect on roof system design and installation.

NRCA submitted a public comment at the request of the Metal Building Manufacturers Association on our Code Change S28-22, which combines the International Building Code's Table 1507.4.3(1)-Metal Roof Coverings and Table 1507.4.3(2)-Minimum Corrosion Resistance into a single table and further revises this section to apply to all metal roof system coverings. The public comment was approved by ICC's governmental members.

NRCA's public comments on Code Changes S44-22 and S45-22 attempted to clarify and limit the scope of new requirements for

ponding instability analysis based on the current code and any resulting necessary modifications to roof structures for roof recovers where the existing roof slope is less than 1/4-in-12. Despite support from several code officials, NRCA's public comments on these code change proposals were not accepted. Code Changes S44-22 and S45-22 were approved by ICC's governmental voting members as modified by ICC's Structural Committee.

NRCA supported a public comment submitted by Owens Corning, Toledo, Ohio, regarding its Code Change S24-22, Part II, which adds clarifying language to the International Residential Code's application and attachment requirements, Table R905.1.1(2)-Underlayment Application and Table R905.1.1(3)-Underlayment Attachment. This code change proposal initially was disapproved at the Group B committee action hearings but was approved by ICC's governmental members with revisions from Owens Corning's public comment and industry support.

S24-22, Part II complements NRCA's code changes to S22-22, Part II and RB260-22, which adds the new ASTM International standard for synthetic underlayment, ASTM D8257, "Standard Specification for Mechanically Attached Polymeric Roof Underlayment Used in Steep Slope Roofing," and clarifies underlayment is not required for wood shake roof systems over spaced sheathing and structural metal panel roof systems over open frame structures.

NRCA also supported a public comment submitted by SPRI to its Code Change S43-22, which added roofing-specific requirements to Chapter 15-Roof Assemblies and Rooftop Structures for rooftop-mounted lightning protection systems. This code change proposal was disapproved at the Group B committee action hearings but was approved by ICC's governmental voting members with revisions

from SPRI's public comment and industry support. Approval of S43-22 complements Code Change G176-21, which was approved during ICC's Group A and added a new section, Section 2703-Lightning Protection Systems, to IBC 2024's Chapter 27-Electrical.

### Next steps

From Oct. 10-24, 2022, ICC held an online governmental consensus vote, referred to as OGCV, to get additional ICC governmental voting member input on the votes at the Group B public comments.

The OGCV affirmed the votes on all items except for one nonroofing-related item, Code Change RB160-22, which was disapproved.

At this point, development of the 2024 I-Codes is complete with exception of the International Energy Conservation

Code® and IRC's Chapter 11 [RE]-Energy Efficiency, which are being developed using ICC's standards process. Development of the IECC and IRC's Chapter 11 [RE]-Energy Efficiency is ongoing and should be complete by midyear.

ICC indicated the 2024 I-Codes will be published in October 2023 with initial adoptions anticipated as early as early 2024.

*Professional Roofing* will keep you apprised of all roofing-related changes once the 2024 I-Codes are published. 📍🌐🌟



To read more about IECC's development and the Group B hearings, go to [professionalroofing.net](https://professionalroofing.net).

**MARK S. GRAHAM** is NRCA's vice president of technical services.

 [@MarkGrahamNRCA](https://twitter.com/MarkGrahamNRCA)



## SPRI develops new lightning protection systems code language

SPRI has announced it developed new language clarifying how lightning protection systems are secured to commercial roof assemblies, roof coverings, metal edge systems and gutters that will be included in the 2024 edition of the International Building Code.®

The language will be added as new subsections in Section 1511, Roof-top Structures, and stipulates lightning protection system installations must be completed in accordance with the roof system or edge metal manufacturer's instructions or specifications from a qualified design professional. Lightning protection system components must be properly flashed where they are secured to or penetrate a roof.

The new language goes beyond existing installation standards outlined in NFPA 780, "Standard for the Installation of Lightning Protection Systems," and UL 96A, "Installation Requirements for Lightning Protection Systems."

SPRI worked closely with the Lightning Protection Institute, National Electrical Manufacturers Association, National Fire Protection Association, National Fireproofing Contractors Association, NRCA, Underwriters Laboratories and other stakeholders to build consensus to get the new language approved and adopted for the code.

"This is a significant update to the building code," says Amanda Hickman, president of The Hickman Group, Plantation, Fla., and SPRI's code consultant. "The current code does not address the impact lightning protection system attachments have on the roof. Any attachments to the [roof] assembly or edge metal system can alter the wind load and performance of these tested components. It is, therefore, important the original equipment manufacturer or a qualified design professional provide direction on the attachment methods to be used."

The 2024 edition of the IBC will be published toward the end of 2023. Once published, the new language for securing lightning protection systems on commercial buildings can be adopted by states and jurisdictions in the U.S. and around the world.

## Why are construction companies more vulnerable to cyberattacks?

A study conducted by [safetydetectives.com](https://www.safetydetectives.com) reports construction companies are the third most common type of industry to be targeted by hackers, according to [equipmentworld.com](https://www.equipmentworld.com).

"Construction companies are one of the top targets for cybercriminals, and the U.S. is the number one target on the planet," says Nick Espinosa, chief security fanatic at cybersecurity firm Security Fanatics, South Barrington, Ill. "In the last few years, the construction industry has woken up to the fact that its members need cybersecurity advice. There's a recognition now in a way that there hasn't been."



Equipmentworld.com shares the following reasons why construction companies often are more vulnerable to cyberattacks.

- Construction companies often have inadequate firewalls or defenses.
- The construction industry uses multiple digital systems, software and communications devices across numerous job sites and offices, and company leaders may not know about all the devices or have them integrated under one security umbrella. If cybercriminals gain access to one of the systems, they may gain access to everything.
- Construction company executives often believe their data is not valuable, but if all the data disappears, executives likely would be willing to pay a lot to get it back.
- Supervisors and other managers often take laptops home with them at night or on the road for trade shows and remote jobs. Security risks increase with motel and trade show Wi-Fi or even when kids play on a laptop.
- When companies use old computers, operating systems and virus protection, they will be identified quickly by cybercriminals who will take advantage of the vulnerabilities.





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## A time to give

ROOFPAC ensures Congress understands the roofing industry's needs

by Teri Dorn

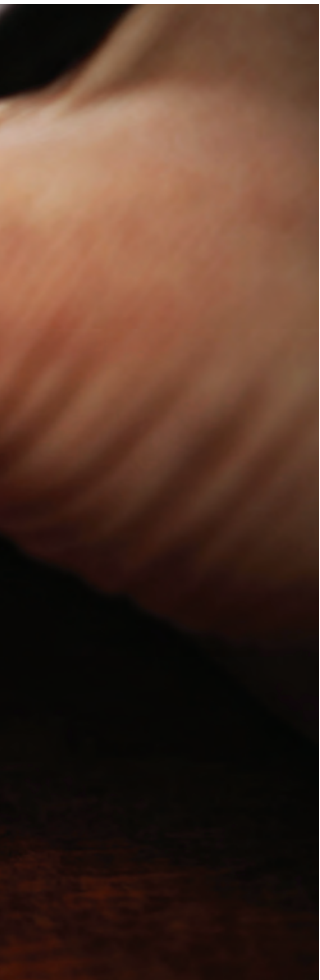
**D**uring the 2022 midterm elections, voters chose representatives for every seat in the House of Representatives and 35 seats in the Senate. In January, members of the 118th Congress were sworn in and are serving two- or six-year terms depending on their chamber. Many winning candidates were supported by ROOFPAC, NRCA's political action committee.

ROOFPAC plays an integral role in supporting pro-business legislators while amplifying the roofing industry's voice on Capitol Hill regarding key advocacy issues.

### Year-round effort

Major fundraising and campaigning used to occur during the six months leading up to an election, but recently, those six months have morphed into a continuous cycle that begins anew the day after representatives and senators are sworn in. This new timeline provides a longer period during which politicians are keenly tuned in to their constituents' concerns and needs. It also presents a chance for the roofing industry to connect with and invest in candidates who support policies that will help the industry thrive.

The new, large freshman class in Congress provides a unique opportunity as NRCA staff makes sure all incumbent and newly elected members understand



the roofing industry's critical issues, such as labor shortages and tax reform.

ROOFPAC's activities greatly strengthen NRCA's efforts to proactively advance government policies that enable roofing industry entrepreneurs to successfully operate and grow their businesses. Created in 1990 to maximize the roofing industry's political influence in Washington, D.C., ROOFPAC has supported hundreds of pro-business congressional candidates. All donations are carefully stewarded and deployed successfully; 94% of ROOFPAC-supported candidates on the Nov. 8, 2022, ballot won their elections. ROOFPAC

relies on personal contributions made by NRCA members, and NRCA is working to expand member participation.

### Supporting ROOFPAC

Your contribution to ROOFPAC helps the industry develop positive relationships with lawmakers and enables NRCA to share updated information with legislators regarding how their policy proposals will affect your business and employees. In this way, supporting ROOFPAC is an essential investment in your business.

NRCA members can contribute any amount to ROOFPAC up to \$5,000 annually, and there are three club levels that offer benefits and recognition, including:

- Emerging Leaders Club: \$250

“Your contribution to ROOFPAC enables NRCA to share updated information with legislators regarding how their policy proposals will affect your business and employees”

- Capitol Hill Club: \$1,000
- Political Insiders Council: \$5,000

Visit [nrca.net/roofpac](http://nrca.net/roofpac) to learn more and sign up.

### IRE

In addition to contributing directly to ROOFPAC, NRCA members can support ROOFPAC via several exciting fundraising events, including those held during NRCA's 136th Annual Convention and the 2023 International Roofing Expo® in Dallas March 6-9.

Building on previous successful events, NRCA will partner with National Women in Roofing to host “A Lone Star Evening,” a cocktail reception and live auction Monday, March 6. Held at Gilley's Dallas from 4:30-6:30 p.m., the event will allow guests to bid on vacations, spirits, handmade items, artwork and more. In previous years, participants have won Pappy Van Winkle whiskey, Dom Perignon champagne, trips to travel destinations, customized NRCA sport coats and fresh lobsters for a year! Register for this fun-filled event at [nrca.net/roofpac-ire-event](http://nrca.net/roofpac-ire-event).

NRCA also will host its popular silent auction benefiting ROOFPAC. A variety of jewelry, trips, experiences, electronics and more will be available for bidding. Participants can view silent auction items at NRCA Booth No. 3319 and place bids electronically at [roofpac23.givesmart.com](http://roofpac23.givesmart.com). An open bar will

be available to NRCA members at the NRCA booth Wednesday, March 8, from 2 p.m. until bidding closes at 4 p.m. Attendance at the convention and trade show is not required to place bids.

NRCA is grateful for many generous sponsors who help underwrite the costs of these events so all proceeds can directly benefit ROOFPAC.

### Make a difference

With a new Congress now in session, your support is needed more than ever. Every contribution to ROOFPAC matters, and even a modest contribution can go a long way. One individual from each NRCA member company giving \$50 annually to ROOFPAC would raise more than \$350,000 per election cycle.

NRCA greatly appreciates however you choose to support ROOFPAC. I look forward to seeing you soon in Dallas! 🍷🍷🍷

**TERI DORN** is NRCA's director of political affairs.

ROOFPAC is the federally registered political action committee of NRCA, and contributions will be used for political purposes. Contributions to ROOFPAC are not tax-deductible and the name, address, occupation and employer's name of individuals whose contributions exceed \$200 during a calendar year will be reported to the Federal Election Commission. Contributions are voluntary, and you have the right to refuse to contribute without any reprisal.

## Illinois contractor faces fines for exposing workers to fall hazards

Three times in four months during 2022, Occupational Safety and Health Administration inspectors observed workers employed by roofing company Araujo Construction Corp., Calumet City, Ill., exposed to deadly fall hazards at job sites in Lake Zurich, Ill., and Wheeling, Ill., according to [osha.gov](https://www.osha.gov). In each instance, the company's on-site foremen failed to protect workers from known hazards as they performed residential framing work on new homes under construction. The company is not an NRCA member.

Following three OSHA investigations, Araujo Construction faces \$277,524 in

proposed penalties after workplace safety inspectors identified two willful, four repeat and six serious violations May 5, Aug. 22 and Sept. 14.

On May 5, OSHA inspectors informed company officials and a foreman at the Lake Zurich site they were violating federal law by allowing employees to work at heights exceeding 30 feet without fall protection. On Aug. 22, inspectors returned to Lake Zurich to find the company's workers again exposed to the fall hazards. On Sept. 14, OSHA inspectors found the company committing violations in Wheeling as employees worked at heights exceeding 15 feet. OSHA requires guardrail, safety net or personal fall-arrest systems—or some combination of these—be used during roofing activities at 6 feet or more above lower levels.

OSHA inspectors also determined Araujo Construction allowed workers to use ladders improperly and work on elevated platforms without fall prevention such as rails and kick-boards. Additionally, the company did not ensure workers using air-powered nail guns wore eye, head and face protection and did not provide training regarding safe use of forklifts.

Araujo Construction had 15 business days from receipt of its citations and penalties to comply, request an informal conference with OSHA's area director or contest the findings before the independent Occupational Safety and Health Review Commission.

The Bureau of Labor Statistics reports 1,008 construction workers died on the job in 2020, with 351 of those fatalities related to falls from elevation.

## Fall protection again tops list of OSHA's most-cited violations

Recent data from the Occupational Safety and Health Administration shows dangers from falls at construction sites remain the most frequently cited hazard on OSHA's list of most-cited violations for fiscal year 2022, which ended Sept. 30. Construction blog [constructconnect.com](https://www.constructconnect.com) shared a list of OSHA's top 10 construction-specific violations.

Other rules related to construction falls are among the top 10 violations, including ladders and scaffolds.

Following are the top 10 most-cited violations in construction for fiscal year 2022:

1. Fall protection—Duty to have fall protection: 4,456 violations
2. Ladders: 1,797 violations
3. Scaffolds—General requirements: 1,527 violations
4. Fall protection—Training requirements: 1,354 violations
5. Personal protective and lifesaving equipment—Eye and face protection: 1,208 violations
6. Personal protective and lifesaving equipment—Head protection: 628 violations
7. General safety and health provisions: 586 violations
8. Scaffolds—Aerial lifts: 481 violations
9. Excavations—Specific excavation requirements: 395 violations
10. Toxic and hazardous substances—Hazard communication: 382 violations

OSHA issued 17,233 citations from 7,015 inspections during fiscal year 2022 to construction companies, totaling more than \$72 million in penalties. OSHA issued 16,749 citations from 6,624 inspections during fiscal year 2021.

## New York City department releases guidance document regarding stop-work orders

The New York City Department of Buildings has released a new guidance document intended to provide local construction employers and workers with insight regarding why a stop-work order may be issued at a job site, according to [sunnewsreport.com](https://www.sunnewsreport.com).

Stop-work authority permits any employee at any level to halt a job or task when a hazardous situation

appears imminent. The New York City Department of Buildings states all work must stop when an adjoining property is “significantly damaged”; a worker or member of the public is injured; or material/debris falls outside property lines and onto a public area.

The guide features a description of the conditions for a stop-work order, applicable laws and whether a partial or full stop-work order is required.

A 2015 International Risk Management Institute article described reasons workers may hesitate when they see a potentially dangerous situation, such as assuming they do not have the authority to get involved; believing action is not necessary if other workers in the area are not taking action; and being afraid of alienating a co-worker by calling attention to an unsafe situation.



Access the New York City Department of Buildings' stop-work order guide at [professionalroofing.net](https://www.professionalroofing.net).



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# SPF: Adapting to a Changing World

Environmental demands, chemical advancements and tax incentives  
have created new opportunities

by Rick Duncan, Ph.D., P.E.



With proper maintenance, care and periodic recoating every 10 to 20 years, SPF can be a durable roofing option with a lifespan of 50 or more years.

The use of spray polyurethane foam roofing is increasing because of a combination of factors, including overall product performance, weather resiliency, climate change concerns and, more recently, economic conditions that are driving up demand for cost-effective roof system retrofit options, such as SPF.

### SPF AT A GLANCE

SPF commonly is applied in low-slope roofing applications. With a 2.5- to 3.5-pound density per cubic foot, SPF is among the most dense and rigid of SPF building product options (open- and closed-cell SPF insulation are two other less dense solutions for building envelopes), offering a compressive strength of 40 to 60 pounds per inch. When used on roofs, the material forms a monolithic layer that protects the structure underneath and acts as a continuous thermal insulation layer, water and air barrier, as well as vapor retarder.

An elastomeric roof coating is applied on top of the foam to further enhance energy efficiency and prevent degradation and damage caused by ultraviolet radiation, common weather variables and maintenance-related foot traffic. Butyl rubber, polyurethane and polyurea are suitable roof coatings for application atop SPF though silicone and acrylic are more commonly used.

SPF is ideal for use in the following roofing conditions and situations:

- Roof decks of unusual shape
- Local climates prone to inclement weather, storms, wind and/or hail (coastal and hurricane prone regions are two examples)

- When sloped roof application is mandated for drainage purposes
- When the substrate includes multiple penetrations (such as with solar panel supports) or equipment is mounted to the roof and requires flashing
- Structures unable to withstand additional weight
- When expenses associated with removal of an existing roof are too great (SPF may be applied over an existing roof as a cost-effective retrofit application.)

With proper maintenance, care and periodic recoating every 10 to 20 years, SPF can be a durable roofing option with a lifespan of 50 or more years.

### SPF AND THE CLIMATE

The Intergovernmental Panel on Climate Change has noted gases from human activities, a primary cause of climate change, are found to be responsible for 1.1 degrees Celsius of the Earth's warming since 1850-1900 and, during the next 20 years, the global temperature is expected to reach or exceed 1.5 degrees Celsius of warming.

Climate warming has brought about numerous pronounced, visible weather changes, including an increase in hurricanes, longer droughts and intense storms.

After Hurricane Katrina, the National Institute of Standards and Technology reviewed roof systems and discovered buildings roofed with SPF performed well without blow-off of the SPF or damage to flashings. NIST's 2006 *Performance of Physical Structures in Hurricane Katrina and Hurricane Rita: A Reconnaissance Report* found only one of the examined SPF roofs incurred notable damage and concluded SPF kept the

roofs intact, prevented moisture from entering the buildings, and protected the structures from hail and debris.

In addition, SPF can act as an insulator and air barrier, sealing a roof and reducing heating and cooling energy demands. In reducing energy use, the material also can reduce greenhouse gases generated from fossil fuel combustion, which can help reduce global warming effects.

## SPF AND PV

Global warming, combined with the growing cost of fossil fuels, is further intensifying the necessity of decarbonizing, or reducing the carbon output of, buildings and homes. In the 2018 Decarbonizing U.S. Buildings report published by the Center for Climate and Energy Solutions, it was found fossil fuel combustion attributed to residential and commercial buildings accounted for roughly 29% of total U.S. greenhouse gas emissions.

But to fully decarbonize buildings and homes, we must also make sure they generate renewable energy. Although SPF is incapable of fulfilling the energy-generation component of a successful decarbonization strategy, it can reduce energy consumption and pairs nicely with photovoltaic technology, which is capable of renewable energy generation.

In fact, the two systems are increasingly used together to help eliminate a structure's dependence on fossil fuel-consuming energy sources. Detailed guidance on the design and installation considerations for pairing the two systems can be found in the Spray Polyurethane Foam Alliance's *SPFA-150 Photo-Voltaic Systems and SPF Roof Systems* technical document available at [sprayfoam.org/SPFA\\_techdocs](http://sprayfoam.org/SPFA_techdocs).

## BLOWING AGENTS

The SPF industry is undergoing a meaningful shift in its materials technology. The change pertains directly to

blowing agent technology; the industry has begun to adopt and use hydrofluoroolefin-based blowing agents in spray foam. This move toward HFO blowing agents is a gradual shift away from hydrofluorocarbons. HFO blowing agents are composed of unsaturated organic compounds of hydrogen, fluorine and carbon and offer zero ozone depletion potential and move the global warming potential of spray foams from a factor greater than 794 to, in some cases, just 1, according to the Environmental Protection Agency. These metrics showcase how instrumental the newer blowing agent technology is in dramatically reducing the industry's contributions toward climate change.

U.S. federal government initiatives and support of the phasedown of ozone-depleting chemicals, as well as those producing greenhouse gases, has varied by administration. Currently, manufacturers, contractors and regulations are what are primarily driving the shift toward HFO-based blowing agents.

The states phasing out the use of HFCs are using EPA's SNAP program rules 20 and 21, which push for a shift to environmentally friendly blowing agents (and which were partially vacated at the federal level) as a guide for statewide regulations. And though there are a significant number of states in the process, they are in different phases. For example, California, New York and Washington lead the pack, having established regulations that curb HFC emissions and are stricter than SNAP 20 and 21 rules. Colorado, Delaware, Maine, Maryland, Massachusetts, New Jersey, Rhode Island, Vermont and Virginia have legislations aligned with SNAP 20 and 21 prohibiting the use of certain HFCs. Connecticut, Hawaii, New Mexico, Oregon, Pennsylvania and Texas have indicated a desire to introduce legislation to reduce HFC emissions, but as of press time, no bills have been signed into law. At some point, Illinois, Louisiana, Michigan, Minnesota, Nevada, North Carolina and Wisconsin may follow suit as they are part of the U.S. Climate Alliance, a group of states that have committed to mitigating global warming.

## NEW EPD

Since 2012, SPFA, working with Chicago-based environmental software company Sphera, has developed International Standards Organization-compliant life-cycle assessment and environmental product declarations for SPF insulation and roofing foams. Comparison of the EPDs for SPF using HFC and HFO blowing agents show



The SPF industry is undergoing a meaningful shift in its materials technology.



a five-fold reduction in global warming when using HFO blowing agents. In 2023, SPFA will conduct a five-year update for all SPF materials per ISO requirements.

## TAX INCENTIVES AND REBATES

Of consequence to all SPF contractors, as well as roofing contractors in general, is the Inflation Reduction Act, federal legislation signed into law in August 2022 by President Biden. The act provides billions of dollars to supplement federal energy efficiency initiatives through tax credits and deductions, as well as rebate, grant and loan programs. Many contractors are sharing the information with their customers to explain that now might be a good time to complete the energy efficiency-focused retrofits they have been considering.

Following is an overview of some of the Inflation Reduction Act's core benefits, specifically those that may apply to the services roofing contractors provide:

- **Residential Efficiency Tax Credit (25C):** Initially created under the Energy Policy Act of 2005 and added to the federal tax code under Section 25C, this program has been expanded and extended under the Inflation Reduction Act's Section 13301 and provides tax credits for installing certain energy-efficient insulation, windows, doors and roofing materials. For improvements completed in 2023, the new terms allow a 30% tax credit up to an annual maximum of \$1,200, which is a significant increase from the former 10% tax credit with a \$500 lifetime maximum.
- **HOMES Act:** The Home Owner Managing Energy Savings Act of 2019 directs the Department of Energy to establish the Home Energy Savings Retrofit Rebate Program to provide rebates rewarding homeowners for achieving home energy savings. Rebates provided are based on measured or estimated (modeled) energy savings as determined by an energy audit using DOE-approved software and are available to homeowners and aggregators for single-family and multifamily properties. The rebates may not be combined with any other federal grants or rebates with the exception of the homeowner tax credits under Section 25C. Rebate amounts are substantial but vary based on measured versus modeled energy savings. For multifamily properties to qualify, not less than 50% of the dwelling units must be occupied by low- or moderate-income households.

- **DOE Electrification Rebate Program:** Section 50122 of the legislation provides \$4.5 billion to DOE to support state-level rebate programs for home electrification upgrades that include provisions for air sealing and insulation. The program's objective is to reduce the number of homes and buildings heated by direct combustion of fossil fuels (oil, natural gas, propane, coal and wood). The government is incentivizing a transition to all-electric heating ultimately powered by wind and solar. During this transition process, downsizing these new electric heating systems is essential. There are opportunities, albeit smaller, for insulation and air sealing from SPF roof systems as part of this program. The maximum rebate for air sealing, insulation and ventilation is \$1,600, subject to household income requirements. The electrification rebate is available for single-family and multifamily properties and may not be combined with other federal grants or rebates with the exception of homeowner tax credits under 25C.
- **New and existing commercial buildings incentives:** With the goal of decreasing energy consumption in buildings across the U.S., tax deductions may be claimed by owners of commercial and large multifamily buildings who install qualifying energy efficiency measures, including building envelope improvements. Enhancements to energy efficiency needed to qualify for the deduction must be demonstrated by energy simulation (modeling) by an independent third party or actual energy use. In either case, an SPF roof system can play an important role in increased building efficiency. Savings requirements vary based on the path chosen, and tax deductions per square foot vary based on taxable year.

## OPPORTUNITIES

The SPF sector is undergoing significant change amidst product chemistry enhancements, an increased emphasis on the material's ability to perform in the face of extreme weather and storms, wider adoption of SPF roofing combined with photovoltaics, and major tax incentives; however, much of that change represents meaningful business opportunities for roofing contractors who can capitalize on them. 🌞🌱

**RICK DUNCAN, Ph.D., P.E.,** is executive director of the Spray Polyurethane Foam Alliance.

# Premier technical guidance

NRCA's new manual provides up-to-date best industry practices for membrane roof systems

by Kurt Fester, BECP, CxA+BE

The NRCA Roofing Manual:  
Membrane Roof Systems

2023



**N**RCA recently released *The NRCA Roofing Manual: Membrane Roof Systems—2023*, the latest volume in the four-volume roofing manual series.

This volume replaces the 2019 volume and provides current NRCA best practice guidelines for the design and installation of membrane roof systems, including built-up, polymer-modified bitumen, liquid-applied, and thermoset and thermoplastic single-ply membrane roof systems.

### **What's new**

The first set of changes made to any new manual are to establish consistency throughout all volumes. For example, changes to text, figures and details in previous editions not already added as interim updates are considered. This can be as simple as updated dates to standards or as extensive as global changes to terms or images used throughout the manual.

Next, changes are made to update each chapter. NRCA's Manual Update Committee, which, for this manual revision, comprises NRCA members with expertise in membrane roof systems, takes on the

responsibility of updating the manual. Following are changes to the 2023 manual.

### **Chapter 1**

Roof system configurations have been expanded to include more options for liquid-applied systems. Self-adhering EPDM also was added.

### **Chapter 2**

New and updated information has been added regarding steel roof deck design and single-ply roof membrane attachment and comes from the American Iron and Steel Institute, Steel Deck Institute and Factory Mutual.

This chapter also includes new information regarding gypsum and updates to relevant standards referenced for wood roof decks.

### **Chapter 3**

Language has been updated to reflect the latest versions of ASHRAE 90.1, "Energy Standard for Buildings Except Low-Rise Residential Buildings," and the *International Energy Conservation Code,® 2021 Edition*.

## Chapter 4

Changes to the insulation chapter include a revised recommendation for joint stagger distance for multilayer insulation installations and commentary about polyisocyanurate board thickness.

The relative dimensional instability of thicker boards and recommendations for in-service R-values and designer specification of polyisocyanurate also are discussed.

More in-depth language has been included about thermal bridging, and a new section was added to discuss vacuum-insulated panels.

Clarifications also were made to address the final surface slope of crickets and saddles of a tapered insulation system.

## Chapter 5

The roof membranes chapter now includes expanded language for liquid-applied systems and flashing and provides a new figure for the application of low-rise foam adhesives.

## Chapter 6

The fasteners section was renamed the attachment section to reflect the growing options other than fasteners.

## Chapter 7

The surfacings chapter includes new language about reflectivity and reflectivity standards, as well as a discussion about the sun-setting of ENERGY STAR.<sup>®</sup>

## Chapters 8 and 9

The main changes to these chapters are updated references to standards.

## Chapter 10

Noteworthy changes to this chapter include saddle figure updates to improve drainage and added language about energy code requirements for rigid board insulation. Construction details including roof drains were revised, and liquid-applied details were expanded.

## Other changes

An appendix addressing electronic leak detection was added, and revisions were made to the wind uplift and chemical compatibility appendices.

Additional qualifying language was added to the appendices for temporary roof systems and flood testing of roof systems.

And finally, code compliance for membrane roof assemblies now provides information regarding the 2021 I-Codes.

## Download it for free

When designing and installing membrane roof systems, be sure you're incorporating the most current best practices gathered from roofing professionals across the industry. NRCA members receive free access to electronic versions of The NRCA Roofing Manual, including *The NRCA Roofing Manual: Membrane Roof Systems—2023*. Members can download the entire manual series as PDF documents at [nrca.net](http://nrca.net). Hard-copy versions of all NRCA manuals also are available for purchase. 📄📱🌐

KURT FESTER, BECxP, CxA+BE, is NRCA's project engineer.

# The four-volume set

The NRCA Roofing Manual



Since 2007, The NRCA Roofing Manual four-volume set has been published as an individual volume each year on a four-year repeating cycle. The manual represents NRCA's in-depth, best industry practices and technical information concerning the design, materials and installation of quality roof systems.

The current version now consists of the following four volumes:

- *The NRCA Roofing Manual: Membrane Roof Systems—2023*
- *The NRCA Roofing Manual: Architectural Metal Flashing and Condensation and Air Leakage Control—2022*
- *The NRCA Roofing Manual: Steep-slope Roof Systems—2021*
- *The NRCA Roofing Manual: Metal Panel and SPF Roof Systems—2020*



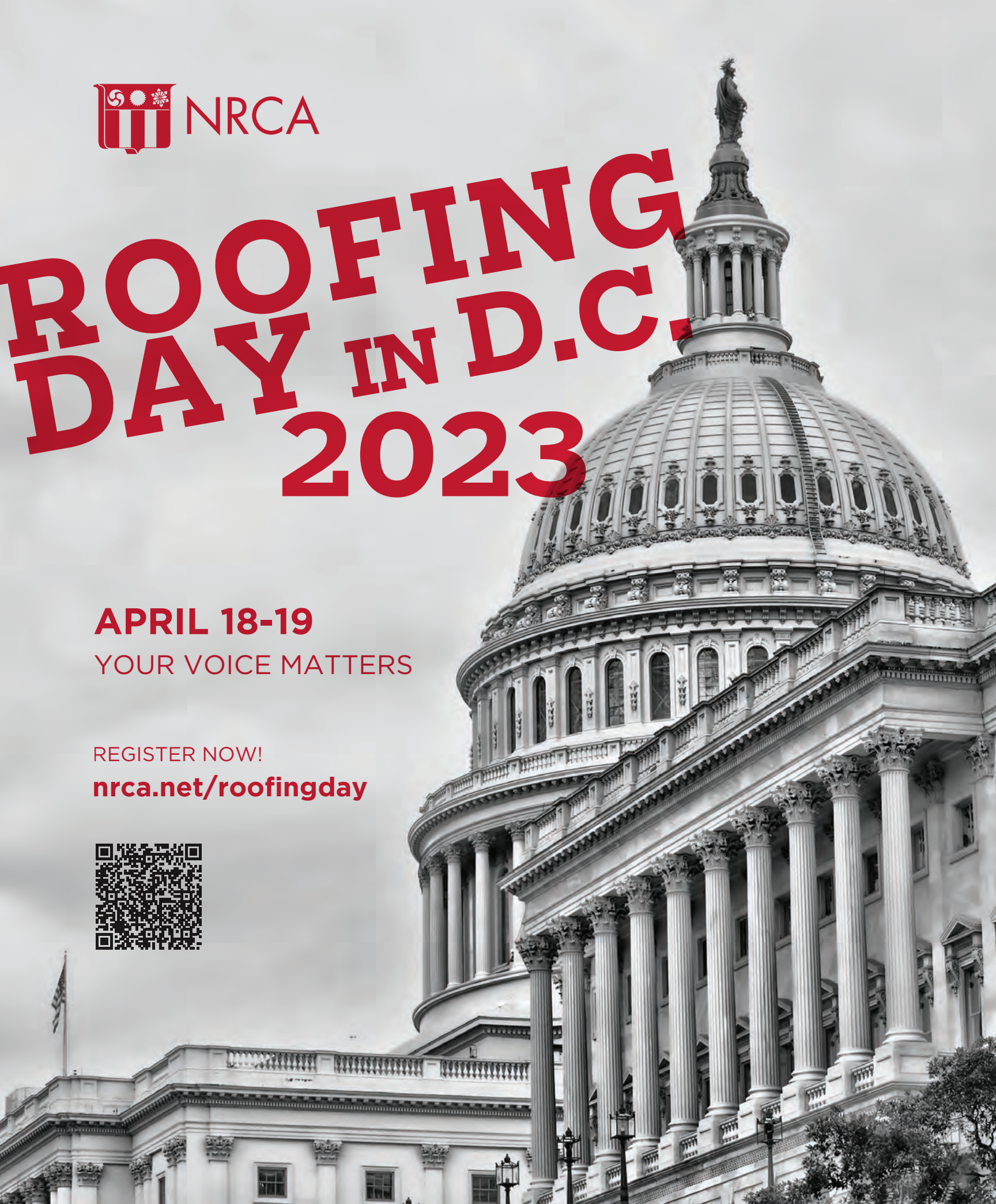
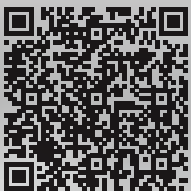
# ROOFING DAY IN D.C. 2023

**APRIL 18-19**

YOUR VOICE MATTERS

REGISTER NOW!

[nrca.net/roofingday](https://nrca.net/roofingday)





Photos courtesy of CopperWorks Corp., Decatur, Ala.

**Project name:** Athens First United Methodist Church

**Project location:** Athens, Ala.

**Project duration:** October 2020-May 2021

**Roofing contractor:** CopperWorks Corp., Decatur, Ala.

**Roof system type:** Copper

**Roofing manufacturer:** Aurubis, Hamburg, Germany



# HEMISPHERIC ROOFING

CopperWorks replaces the  
dome on a church in Alabama

by Chrystine Elle Hanus

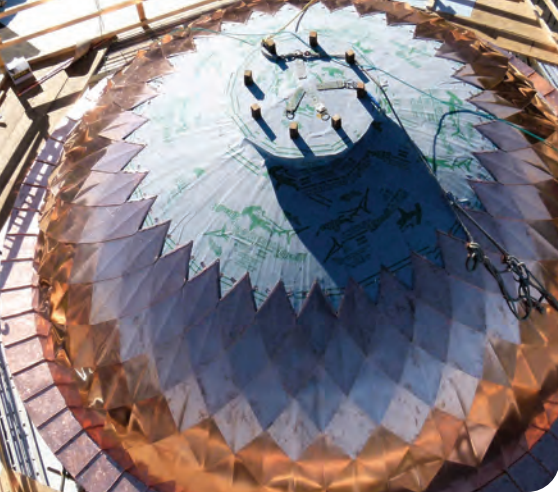
In 1836, Methodists in Athens, Ala., bought a tract of land on Marion Street, one block from the town square. Soon afterward, a two-story brick building with a steeple visible from much of the city was erected. The structure is the second-oldest building in Alabama.

During the early 1920s, the church reached capacity, and a new church with a grand pipe organ was built nearby for \$115,000. The first service in the present-day church was held March 19, 1925. The church has been renovated multiple times, and in 1997, a new bell tower was added.

After almost a century, the copper roof system on the dome reached the end of its service life, and in 2020, the dome and cupola were replaced by CopperWorks Corp., Decatur, Ala.

## A NEW DESIGN

Production on the 700-square-foot hemispheric dome (a dome with a constant radius) began in October 2020. The original 23- by 10-foot dome was fabricated using diamond-shaped, flat, interlocking copper tiles.



**Top:** CopperWorks craftsmen fabricated 288 interlocking copper tiles using traditional Rauten methods.

**Bottom:** The cupola's shape was based on a full-scale drawing and the original tower's design to replicate the tools needed for reproduction.

The CopperWorks team erected scaffolding around the dome and removed the copper tiles and underlayment down to the original wood roof deck.

“The dome was one of the best structural frameworks I have ever seen,” says Daniel Delle, vice president and project manager for CopperWorks. “I have worked on many historical buildings, and this dome was solid and sturdy.”

The church was built in a historical district in downtown Athens, so dome renovations had to include historically accurate materials. However, a new design by Delle called for 3D copper tiles fabricated in different shapes to provide a modern appearance.

Wide squares, diamonds and other specially shaped profiles were incorporated. Half-square panels were used for the first row at the dome's base. The widths and lengths of panels changed with each subsequent row. Narrow, more acute-angled diamond shapes were fabricated for the final nine rows, forming a connection to the circular platform with the cupola. The diamond-shaped tiles provided an even, continuous pattern between the profiles.

To cover the dome, CopperWorks craftsmen fabricated 288 interlocking tiles from 0.7-mil-thick copper using traditional Rauten methods that have been used for more than 200 years.

“The tiles' spatial effect was created by working standing edges into the adjacent sides of the diamonds,” Delle explains. “These ridges were several millimeters high at the bottom tip of each diamond and reduced to zero on the opposite side. This technique raises the central axis and creates a harmoniously constructed 3D effect.”

In November, the CopperWorks team completed the hemispheric dome with a broad copper base and eight decorative brackets with floral motifs. More than 2,000 pounds of copper were used on the dome.

## THE CUPOLA

The team returned in May 2021 to complete the cupola. The cupola's shape was based on a full-scale drawing and the original tower's design to replicate the tools needed for reproduction. The

crown stands about 9 feet high and has a diameter of 6.89 inches with a thickness of .078 inches.

“The punching tools and drop mechanism were manufactured by our partners at Kaufmann Ulm Spenglereibedarf GmbH in Germany,” Delle says. “These cornice profiles were welded together to accessorize eight semiconical columns. The columns were soldered to the base and lacquered in white for historical accuracy.”

The sphere on top of the cupola was created as a detailed replica of a dismantled ornament and was fabricated in two halves.

“Maneuvering both halves was quite challenging because the number of assembled components, sizes and overall weight of the cupola kept changing,” Delle says. “The tower's lower half was manufactured horizontally and erected to meet its other half. Once upright, the decorative and half brackets were assembled onto the tower's lower portion, and the surrounding cornice was soldered to the connection profile.”

The team fabricated two substructures to hold the sphere's weight. The first structure has the lower half of the tower, the columns and the cornice. The second structure stabilized the upper half of the cupola and the cross.

CopperWorks coppersmiths constructed an eyelet at the top of the crown so it could be lifted via crane onto the church after it arrived on-site.

## PRESERVING HISTORY

Before lifting the crown onto the church, a time capsule containing documents and artifacts was included at the pocket of the base for a future generation to find.

“I was honored to design the dome,” Delle says. “The church still has a traditional feel to its appearance while showcasing a modern style. It is a pleasure to look at whenever I drive by.”

For its work on Athens First United Methodist Church, CopperWorks received a 2022 North American Copper in Architecture Award from the Copper Development Association. 🏆🌟

**CHRISTINE ELLE HANUS** is *Professional Roofing's* associate editor and an NRCA director of communications.



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ROUNDUP

## MAKE PLANS TO ATTEND NRCA'S **136TH ANNUAL CONVENTION** AND THE **2023 INTERNATIONAL ROOFING EXPO®** IN DALLAS

by Sara Vaughn

**F**ollowing the huge success of the 2020 Texas-based IRE where more than 17,000 roofing professionals descended upon the Lone Star State, NRCA invites all professionals to attend its 136th annual convention and Sarasota, Fla.-based Informa's 2023 International Roofing Expo in downtown Dallas March 6-9.

Held in the Kay Bailey Hutchison Convention Center, which boasts more than 1 million square feet of exhibit space, this year's show is shaping up to be a big one. Join thousands of industry professionals gathered to participate in seminars and educational classes, network with peers, learn about the latest industry trends, and explore the vast expo floor during the most exciting roofing event of the year.

"Everything's always bigger in Texas, so NRCA is excited about Dallas and getting the roofing industry back on its regular schedule in 2023," says McKay Daniels, NRCA's CEO. "The industry's innovations and advancements will be celebrated all week. I look forward to seeing everyone there!"

## Convention kickoff

The sixth annual National Women in Roofing Day, a conference for multidisciplinary female professionals, will be held Sunday, March 5, from 8:30 a.m.-7 p.m. The full-day program offers participants an opportunity to network with peers while learning about the latest business strategies, tactics and secrets to success. The program will conclude with an evening reception. Additional information is available at [nationalwomeninroofing.org](http://nationalwomeninroofing.org).



NRCA events begin Monday, March 6, with NRCA's Executive Committee meeting and breakfast from 8 a.m.-noon and NRCA's board of directors meeting and lunch from noon-3 p.m. The meetings will be held at the Omni Dallas Hotel. NRCA's Affiliate Executives meeting and lunch will take place the following day from 11:30 a.m.-3:30 p.m. at the convention center.

To help ensure roofing professionals attending the expo can make the most of their experience, a First-Time Attendees Reception will be held Tuesday, March 7, from 5:30-6 p.m. Participants can network with peers and chat with NRCA and IRE staff at the lively House of Blues Dallas. The IRE welcome party immediately follows the reception.

To help ensure roofing professionals attending the expo can make the most of their experience, a First-Time Attendees Reception will be held Tuesday, March 7, from 5:30-6 p.m. Participants can network with peers and chat with NRCA and IRE staff at the lively House of Blues Dallas. The IRE welcome party immediately follows the reception.

## Time to learn

Roofing professionals can increase their knowledge and skills by participating in NRCA educational programs during the convention and expo.

On Tuesday, March 7, an NRCA Roofing Industry Fall Protection from A to Z class will be held from 8 a.m.-4:30 p.m. Students will learn about fall-protection systems and the most recent state-specific Occupational Safety and Health Administration regulations and observe demonstrations of fall-protection equipment and self-rescue techniques. By the end of the class, participants will be able to recognize fall hazards present during roof system installations and repair; use appropriate controls for fall hazards on low- and steep-slope roofs; and identify strategies for self-rescue and the rescue of others on job sites.

On Thursday, March 9, NRCA will hold its Foreman Leadership Training, Level 1, program from 8 a.m.-4 p.m. Field managers, foremen and superintendents will

engage in interactive exercises designed to help them learn how to manage and lead effectively, work well with all types of people, handle tough situations tactfully and motivate workers to improve job-site productivity.

NRCA will conduct NRCA ProCertification® assessment demonstrations at booth 3119 March 7-9 during exhibit hall hours. Industry professionals interested in learning more about NRCA ProCertification are invited to see what a hands-on skills assessment looks like and talk with NRCA Qualified Assessors about the process.

NRCA University's Future Executives Institute—Class 10 will meet Tuesday, March 7, and Wednesday, March 8, from 7:30 a.m.-5

p.m. The three-year FEI program teaches roofing professionals about leadership theory and practice and helps them develop management and communication skills so they are ready to effectively lead and manage thriving roofing businesses. FEI-10 students, who are in their second year of the program, will attend classes addressing influence, teams,

branding, strategic planning and legal matters. Roofing professionals who are interested in learning more about FEI should plan to attend NRCA's FEI Informational Session and Alumni Cocktail Reception March 7 from 5-6:30 p.m. Short presentations will explain the program, and current students and FEI graduates will be present to answer questions. Drinks and hors d'oeuvres will be served.

## Community Service Day

Join in the spirit of service during IRE's 14th annual Community Service Day Monday, March 6, from 7:30 a.m.-3 p.m. Funded in part with \$15,000 donated by primary sponsor Sika® Sarnafil, Canton, Mass., and hosted by the IRE and Rebuilding Together® North Texas, volunteers will help renovate the homes of Dallas residents in need, including families with young children, seniors and

### DID YOU KNOW?

You can connect with the 2023 International Roofing Expo® via the IRE app, as well as all your favorite social media channels:





## DID YOU KNOW?

The Kay Bailey Hutchison Convention Center operates the Good Neighbor Program as part of its ongoing commitment to sustainable practices and waste reduction. Through the program, the convention center donates unconsumed food and exhibit items to nonprofit organizations serving homeless families and children in downtown Dallas. The Good Neighbor Program has provided more than 7 tons of prepared and packaged food to people in need.

people with disabilities. GAF, Parsippany, N.J., has agreed to donate roofing materials for the event.

Skilled volunteers are needed from various construction disciplines to help with home renovations. Additional volunteers can assist with setup, cleanup and miscellaneous projects. A volunteer registration fee will cover the costs of transportation, breakfast, lunch and beverages.



Financial donations also are needed with a goal to raise \$10,000 to fund home repairs. All donations are tax-deductible. Informa encourages industry professionals to spread the word about Community Service Day.

To volunteer for Community Service Day or make a donation, visit [theroofingexpo.com/en/events.html](http://theroofingexpo.com/en/events.html) or contact Brandi McElhaney, Informa's senior conference manager, at [brandi.mcelhaney@informa.com](mailto:brandi.mcelhaney@informa.com).

## At the expo

On Tuesday, March 7, Chris Czarnik, an author, motivational speaker, and recruiting and retaining talent subject matter expert, will deliver his keynote address, "Winning the War for Talent: One of the Roofing Industry's Biggest Challenges," from 9:30-10:50 a.m. To help address the industry's ongoing labor shortage, Czarnik will outline real-world strategies for employee recruitment, engagement and retention. Attendees will learn actionable strategies they can implement right away.

A welcome party will be held at House of Blues Dallas, a 65,000-square-foot concert and event venue, March 7 from 6-8 p.m. Guests are invited to relax and mingle with

friends and peers while enjoying drinks and appetizers and listening to a local band. Attendees also will experience the largest permanently displayed collection of southern vernacular art featuring artwork from more than 150 self-taught artists.

During the trade show, you will want to make sure to visit NRCA booth 3319 to speak with NRCA staff and members to learn about the benefits of NRCA membership, NRCA ProCertification, Qualified Trainer Conferences, Training for Roof Application Careers, workforce recruitment resources, supply chain information, Roofing Day in D.C. 2023, LEGALCon Virtual and LEGALCon Live, and a variety of technical topics and risk management issues. Visitors also will find information about the 2023 edition of The NRCA Roofing Manual, *Professional Roofing* magazine and more.

All visitors to NRCA's booth will have the opportunity to "Spin to Win" prizes, including a Solo Stove® (sponsored by the Roofing Alliance), Bosch job-site radio, DEWALT® tool backpack, free NRCA ProCertification registration and free NRCA membership for one year, among other prizes. Expo attendees are encouraged to take advantage of special show discounts, including \$300 off NRCA membership dues (new members only). And NRCA members can stop by the NRCA member lounge to relax and enjoy complimentary massages sponsored by the Roofing Alliance.

## Support ROOFPAC

On Monday, March 6, ROOFPAC will host "A Lone Star Evening," an NRCA/ROOFPAC extravaganza held in conjunction with National Women in Roofing at Gilley's Dallas from 4:30-6:30 p.m. Industry professionals are invited to enjoy a cocktail reception and live auction with opportunities to bid on vacations, spirits, handmade items and artwork.

ROOFPAC's annual silent auction will begin Tuesday,



March 7, at 11 a.m. and continue through Wednesday, March 8, at 4 p.m. Held in NRCA booth 3319, ROOFPAC's Silent Auction will feature stylish jewelry, vacations and electronics, among other items. Participants also can view and place bids on silent auction items electronically by accessing [roofpac23.givesmart.com](http://roofpac23.givesmart.com).

An open bar will be provided for NRCA members from 2-4 p.m. March 8 during the auction's final two hours. All proceeds benefit ROOFPAC's efforts in Washington, D.C. Auction winners will be notified at 4 p.m. March 8. Winning items may be picked up at that time or in NRCA's booth Thursday, March 9, from 11 a.m.-1 p.m. For more information about either event, contact NRCA's Washington, D.C., office at (800) 338-5765.

ROOFPAC is the federally registered political action committee of NRCA, and contributions will be used for political purposes. Contributions to ROOFPAC are not tax-deductible and the name, address, occupation and employer's name of individuals whose contributions exceed \$200 during a calendar year will be reported to the Federal Election Commission. Contributions are voluntary, and you have the right to refuse to contribute without any reprisal.

## Student competition

The Roofing Alliance's ninth annual Construction Management Student Competition attracted talented students from six schools. The competition is designed to challenge the roofing knowledge, project management capabilities and presentation skills of students. The student teams were tasked with creating a bid to install a roof system on Globe Life Field in Dallas. Each team was required to research the project and submit a qualified bid package proposal before preparing oral presentations.

Student teams from the following schools are participating in this year's competition:

- Bradley University, Peoria, Ill.
- California Polytechnic University, San Luis Obispo
- Clemson University, Clemson, S.C.
- Colorado State University's Department of Construction Management, Fort Collins
- Texas A&M University, College Station
- University of Florida's M.E. Rinker Sr. School

of Building Construction,  
Gainesville

Up to five finalist teams selected by the competition's judges will present their oral proposals at the Kay Bailey Hutchison Convention Center Wednesday, March 8, from 8-11:30 a.m. Each team will make a 15-minute presentation to the panel of judges followed by a 10-minute question-and-answer period. The winning teams will be announced that evening during NRCA's Awards Ceremony and Cocktail Reception.

## Recognizing excellence

Join NRCA in recognizing recipients of the roofing industry's most prestigious awards during NRCA's Awards Ceremony and Cocktail Reception. Held Wednesday, March 8, from 5-7 p.m., the event will begin with the election of NRCA's 2023-24 officers and directors.

Next, the winning teams of the Roofing Alliance's Construction Management Student Competition will be announced. The highlight of the ceremony will be the presentation of the industry's top awards: NRCA's J.A. Piper Award; NRCA's John Bradford Volunteer of the Year Award; the CNA/NRCA Community Involvement Award; NRCA's Gold Circle Awards; the Roofing Alliance's Most Valuable Player Awards; and NRCA's Charlie Raymond Award.

Considered the most prestigious award in the roofing industry, the J.A. Piper Award was established in 1947 to honor former NRCA President J.A. Piper's extraordinary efforts to keep the association alive during the Great Depression. The award is presented annually to a roofing professional who has demonstrated outstanding service to NRCA and the industry. Previous winners have included NRCA presidents/chairmen of the board, committee members and other professionals who have dedicated their lives to advancing the industry.



# STUDENT COMPETITION



CAL POLY



CLEMSON UNIVERSITY



UF UNIVERSITY of FLORIDA

## REGISTRATION INFORMATION:

For more information and to register for NRCA's 136th Annual Convention and the 2023 International Roofing Expo,® visit IRE's website, [theroofingexpo.com](http://theroofingexpo.com), or contact Sydney Rhea, senior event operations manager, at [sydney.rhea@informa.com](mailto:sydney.rhea@informa.com).

For more information about NRCA events and classes, contact the following:

- **NRCA convention events and the Roofing Alliance:** Alison L. LaValley, CAE, NRCA's vice president of strategic initiatives and partnerships and the Roofing Alliance's executive director, at (847) 493-7573 or [alavalley@nrca.net](mailto:alavalley@nrca.net)
- **NRCA ProCertification:** Denise Malcolm, NRCA's director of certification operations, at (847) 493-7560 or [dmalcolm@nrca.net](mailto:dmalcolm@nrca.net)
- **NRCA University:** Amy Staska, vice president of NRCA University, at (847) 493-7566 or [astaska@nrca.net](mailto:astaska@nrca.net)
- **NRCA University's Future Executives Institute:** Tom Shanahan, CAE, executive director of FEI, at (847) 493-7538 or [tshanahan@nrca.net](mailto:tshanahan@nrca.net)
- **ROOFPAC:** Duane Musser, NRCA's vice president of government relations, at (202) 400-2592 or [dmusser@nrca.net](mailto:dmusser@nrca.net)

The John Bradford Volunteer of the Year Award will be presented to an individual who has demonstrated exceptional volunteerism for the industry. Established by the NRCA Awards Committee, the award recognizes volunteer acts in service to NRCA and within communities.

The annual CNA/NRCA Community Involvement Award, a collaboration between CNA and NRCA, recognizes charitable works performed by NRCA contractor member companies between Jan. 1 and Dec. 1, 2022.

To view the IRE's latest health and safety information, visit [theroofingexpo.com/en/health-safety-faq.html](http://theroofingexpo.com/en/health-safety-faq.html).

The winning charity will receive \$7,500; a second-place winner will receive \$5,000; and a third-place

winner will receive \$2,500. A People's Choice winning charity selected via online voting will receive \$1,500.

NRCA's Gold Circle Awards honors members for their outstanding contributions to the industry in the form of unique roofing projects, programs and services completed between June 1, 2020, and May 31, 2022. The 2023 award categories include Outstanding Workmanship; Innovative Solutions; and Safety Preparedness and Performance. Twelve projects were nominated for consideration, and the winners will be announced during the ceremony.

This year, 29 nominations were submitted for the Roofing Alliance's MVP Awards. The awards recognize noteworthy roofing professionals who achieve work-related and personal goals to which others aspire. Recipients are recognized for their outstanding performance/leadership and outstanding community

involvement. One MVP Awards winner will be named *Professional Roofing's* Best of the Best—an elite recognition co-sponsored by *Professional Roofing* and OMG® Roofing Products, Agawam, Mass.—and will be featured in an article in *Professional Roofing* magazine.

The Charlie Raymond Award is the most prestigious membership recruitment award NRCA bestows. Named for former NRCA President and J.A. Piper Award recipient Charlie Raymond, the annual award is given to an NRCA member who has recruited the most new NRCA members during a calendar year.

All convention and expo attendees are invited to the ceremony to honor the winners and enjoy a cocktail reception during which complimentary beer, wine, soft drinks and hors d'oeuvres will be provided. The event is free; advance registration for this event is requested.

### See you soon!

Roofing professionals who attend NRCA's 136th Annual Convention and the 2023 IRE will experience a roundup of the best the roofing industry has to offer. From supporting the industry's future professionals and honoring its best to networking and giving back to the local community, there are endless ways you can make the most of your time in Texas. Make your plans now to join in on the fun, and let's make this another record-breaking show! 🎉🌟

**SARA VAUGHN** is *Professional Roofing's* assistant editor and NRCA's manager of communications.

## MANUFACTURER NEWS

### Holcim Building Envelope facility receives conservation certification

**Holcim Building Envelope**, Nashville, Tenn., has announced a 10-acre habitat area the company established in 2013 at its Prescott, Ark., manufacturing plant has again been certified by the Wildlife Habitat Council as an official Wildlife Conservation Area.

Part of the company's 75-acre campus, the habitat area serves as a sanctuary for local wildlife as well as an educational space for youth groups. Involvement from community groups, preserving native wildlife and hosting educational events are part of the criteria for the Wildlife Habitat Council's conservation program. Local scout troops have kept busy rebuilding birdhouses and cleaning up damage from storms.

On Aug. 27, 2022, the plant unveiled a new quarter-mile walking trail through the habitat area and marked the occasion with a ceremony during which additional native trees were planted. Holcim Building Envelope team members and their families can walk the trail and enjoy seeing local wildlife.

The EPDM roof membrane and seam tape manufacturing plant is Holcim Building Envelope's largest facility in the U.S. The Wildlife Conservation Area is part of Holcim Building Envelope's "Wildlife at Work" initiative and connected to the company's larger sustainability efforts, including its commitment to achieving net-zero carbon emissions by 2050.



A scout troop plants trees in Holcim Building Envelope's habitat area.

### IKO Industries partners with Labor Central

**IKO Industries**, Wilmington, Del., has announced a collaboration with Labor Central, an online labor marketplace, to offer Labor Central's services at a discounted rate for members of IKO ROOFPRO,® a loyalty program. IKO ROOFPRO members can take advantage of benefits including geotargeted crew sourcing, 24/7 automated alerts and crew profiles.

IKO established the agreement to further support IKO ROOFPRO members who are facing labor shortage issues and other challenges related to securing workers for projects. Labor Central also serves as a resource for roofing professionals who are looking for additional work.

"Roofing contractors are sometimes forced to turn down jobs due to the lack of manpower. They can now use the Labor Central platform to connect with freelance help as an overflow option or to expand into new regions," says Jack Gottesman, IKO contractor channels director.

IKO ROOFPRO members can learn more and sign up by visiting [iko.laborcentral.com](http://iko.laborcentral.com) or the partner page on the IKO ROOFPRO portal.

### MTL Holdings partners with All Weather Insulated Panels

**MTL Holdings**, Waukesha, Wis., has announced a partnership with All Weather Insulated Panels, Vacaville, Calif., to offer roof edge securement as a part of All Weather Insulated Panels' OneDek® Insulated Roof Deck System.

Through its Metal-Era and Hickman Edge Systems brands, MTL Holdings has a variety of roof edge securement solutions. The OneDek Insulated Roof Deck System features an insulated roof deck panel and membrane. Incorporating MTL Holdings' roof edge securement solutions to the OneDek system reportedly saves time and increases a roof system's performance and security.

### Georgia-Pacific upgrades equipment

**Georgia-Pacific**, Atlanta, has announced its gypsum plant Sweetwater West, Sweetwater, Texas, completed board drying equipment enhancements anticipated to reduce carbon dioxide emissions, generate energy savings and lower resource consumption.

Installation of an Energy Optimization System at the plant included new ducting, two fans and an exhaust stack to an existing four-zone dryer. Before the EOS conversion, each zone within the plant exhausted waste heat to the atmosphere. The upgraded system enables collection of waste exhaust from the first three zones and injects it into the fourth zone, allowing the useful heat to be recovered before exhausting remaining heat at a lower temperature. The combined waste exhaust streams from the first three zones contain almost all heat required by the fourth zone, enabling the burner in that zone to operate at a lower capacity.

The result is a net energy savings equivalent to powering 441 homes for one year and a reduction of 2,500 tons of carbon dioxide per year.

"Advancements in energy savings and resource consumption reduction are goals toward which Georgia-Pacific works every day," says David Neal, vice president of gypsum operations for Georgia-Pacific. "Our focus is to make progress daily, improving performance by living a principle of stewardship, embracing creative destruction, improving efficiencies, eliminating waste, and finding new ways of meeting needs and driving conservation activities that leave more resources available to satisfy other needs in society."

## Mule-Hide Products opens training centers

**Mule-Hide Products Co. Inc.**, Beloit, Wis., has announced five new training centers will give distributors and contractors expanded access to hands-on product training.

The training centers are part of a significant expansion of Mule-Hide Products' existing training program. Now called the RISE Program, it encompasses in-depth, customizable training on all commercial roofing products and systems the company offers.

A training facility at the ABC Supply headquarters campus in Beloit has reopened as a Mule-Hide Training Center following a full renovation. A new training center recently opened at an ABC Supply branch in Orlando, Fla., and a location at an ABC Supply branch in Avenel, N.J., will open during the first half of the year. Centers in Texas and Arizona also are planned.

"Our training programs have always been one of the things that sets Mule-Hide Products apart with our territory managers providing programs at our distributors' and contractors' facilities," says Mule-Hide Products Managing Director Dan Williams. "The RISE Program and new Mule-Hide Training Centers will allow us to serve far more people and offer a broader range of classes in modern, well-equipped facilities designed specifically for that purpose."

The enhanced training opportunities will meet the needs of professionals in all areas of commercial roofing and at all career stages, and the facilities will quadruple the number of industry professionals Mule-Hide Products can accommodate for in-house training each year.



Industry professionals receive training at a Mule-Hide Training Center.

## CONTRACTOR NEWS

### Dynamic National acquires Acurva Roofing

Dynamic Roofing Holdings, d.b.a. **Dynamic National**, Centennial, Colo., a portfolio company of Mantucket Capital, has acquired Acurva Roofing LLC, Carrollton, Texas.

Acurva Roofing was founded by Todd Wheeler and has an in-house team of roofing and sheet metal professionals servicing Texas and other southwest U.S. markets. Wheeler will assume the position of vice president and general manager of Dynamic National's southwest division.

"We are excited to be part of the Dynamic team as our culture, values and project approach align perfectly," Wheeler says.

### Former NRCA president passes away

Former NRCA President Bruce McCrory, co-founder and secretary/treasurer of Kiker Corp., Mobile, Ala., and technical director for Nations Roof, Mobile, passed away Nov. 30, 2022. He was 72.

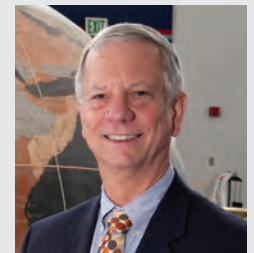
In addition to serving as NRCA's president from 2012-13, McCrory served as NRCA president-elect from 2011-12; vice president from 2006-08 and 2009-11; and as a director from 1998-99 and 2004-09. He was a member of several committees, serving as chairman of the Affiliate Relations Committee, Budget & Finance Committee, Manual Update Committee and Technical Operations Committee, as well as director of the National Roofing Service Corp. McCrory was awarded NRCA's J.A. Piper Award, the roofing industry's most prestigious honor, for his outstanding service to NRCA and the roofing industry in 2017.

McCrory also was a dedicated member of the Subcontractors Association of Alabama, serving on the board of directors, as the 2010-11 president and on the board of trustees.

McCrory was an avid supporter of his alma mater, the University of South Alabama, and served in many roles for the university through the years, including past president and life member of the National Alumni Association. He also enjoyed serving his community and worked with many local organizations, including the Better Business Bureau, Family Counseling Center, Habitat for Humanity, Mobile Big Game Fishing Club, Preschool for the Sensory Impaired and USA Wesley Foundation.

He is survived by his wife of 47 years, Patricia "Pat" Burch McCrory; daughter, Mary Lee McCrory Gay (Charles); grandchildren Alden Camille and Shepard "Shep" McCrory Gay; sister-in-law, Sandra McCrory; nieces Courtney Burch, Paige Harvill and Melissa Rayborn; nephew, Alex Burch; and many other relatives and friends.

Donations in McCrory's name may be made to the Bruce and Patricia McCrory Endowed Scholarship at the University of South Alabama at [giving.southalabama.edu/mccrory](http://giving.southalabama.edu/mccrory) or 650 Clinic Drive, TRP III, Suite 1500, Mobile, AL 36688.



McCrory



## EVENTS

### MARCH

6-9

#### NRCA's 136th Annual Convention

NRCA  
Dallas  
Contact: NRCA's Customer Service Department  
(866) ASK-NRCA (275-6722) or info@nrca.net  
nrca.net

7-9

#### International Roofing Expo®

Informa Markets  
Dallas  
Contact: Informa Markets  
(800) 684-5761 or info@theroofingexpo.com  
theroofingexpo.com

22

#### Virtual CERTA Train-the-trainer

NRCA  
Online  
Contact: NRCA's Customer Service Department  
(866) ASK-NRCA (275-6722) or info@nrca.net  
nrca.net

### APRIL

12-13

#### Virtual Qualified Trainer Conference

NRCA  
Online  
Contact: Jared Ribble, NRCA's vice president of certifications  
(847) 493-7526 or jribble@nrca.net  
nrca.net

18-19

#### Roofing Day in D.C. 2023

NRCA  
Washington, D.C.  
Contact: NRCA's Washington, D.C., office  
(800) 338-5765  
nrca.net/roofingday

20

#### CERTA Train-the-trainer

NRCA  
Elgin, Ill.  
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(866) ASK-NRCA or info@nrca.net  
nrca.net



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remove skin, stir for 5 minutes with specialty mixer, apply, close lid.

#### Repair Hero

open pail, apply, close lid.



Watch The Video



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## DISTRIBUTOR NEWS

### ABC Supply expands into Canada

**ABC Supply Co. Inc.**, Beloit, Wis., has announced expansion into Canada with the acquisition of the Monarch Group of Companies, Calgary, Alberta.

The Monarch Group of Companies is a supplier of siding, roofing and select exterior building materials and includes Monarch Exterior Centre Inc., Monarch Metal Systems Inc. and Monarch Siding Centre Inc.

The acquisition adds the first international ABC Supply branches, which are in Acheson, Calgary, Edmonton, Lethbridge and Red Deer; the locations will operate under the Monarch trade name.

“This is an exciting time for the ABC Supply family,” says Keith Rozolis, ABC Supply’s president and CEO. “Monarch is a strong, deeply rooted and highly regarded distributor of building products in Alberta, and we’re thrilled to have them join ABC Supply.”

In addition, ABC Supply opened a new location in Havre de Grace, Md. The location will offer roofing and exterior and interior building products to customers in northern Maryland. It is ABC Supply’s 16th location in the state.

## OTHER NEWS

### MCA announces award winners

The **Metal Construction Association** has announced the recipients of its 2022 Design Awards.

Formerly known as the Chairman’s Awards, the awards recognize member companies involved in the construction of outstanding building projects that use metal in significant and innovative ways. The judges selected 10 winners from submitted projects that highlight the use of metal to enhance the design of a building.

MCA’s Design Awards recipients include 3A Composites, Sins, Switzerland; All Weather Insulated Panels, Vacaville, Calif.; Kingspan Insulated Panels, Holywell, U.K.; Lorin Industries, Muskegon, Mich.; MG McGrath Inc., Maplewood, Minn.; NRCA member Petersen Aluminum Corp., Elk Grove Village, Ill.; RHEINZINK, Datteln, Germany; and NRCA member Sherwin-Williams, Cleveland.



Winning projects Saint Xavier High School Sangalli Center, Louisville, Ky., (top) and Mid-Century Public Library’s Colbern Road Center, Lee’s Summit, Mo. (bottom).

### Roofing Alliance welcomes new members

The **Roofing Alliance** has announced The Kingspan Group/All Weather Insulated Panels, Vacaville, Calif., joined at the Regent level and Mid-South Roof Systems, Forest Park, Ga., joined at the Governor level.

The Roofing Alliance now has 186 members.

### RT3 announces 2022 Innovator of the Year

**Roofing Technology Think Tank** has presented the 2022 Innovator of the Year award to



Hoffman

Joe Hoffman, owner and president of Hoffman Weber Construction, Minneapolis. The award was announced during the 2022 Best of Success Conference Dec. 4-6, 2022, in Scottsdale, Ariz.

As an early adopter of AccuLynx, EagleView and Xactimate, Hoffman led Hoffman Weber Construction in the adoption of technology that has propelled business while inspiring his team to create software benefiting roofing contractors.

With Hoffman’s development of Roofle, homeowners can enter their property address and receive price quotes for good, better and best roof systems from their choice of manufacturer within seconds. Hoffman is making the technology accessible to other roofing contractors who want to increase transparency with customers.

“Joe is a true innovator who recognized the online shift in consumer buying habits and developed the technology to allow Hoffman Weber Construction to sell roofs to homeowners online,” says Anna Anderson, CEO of Art Unlimited, Ancona, Minn., and past RT3 board president. “Roofle has changed the landscape for purchasing residential roof systems.”

## THE INDUSTRY ONLINE

RoofersCoffeeShop® has upgraded its **AskARoofertm** website, askaroofertm.com. The website now is streamlined, easier to use and features relevant information in a visually appealing way. Additional resources have been added to the site, including podcasts.



## NRCA NEW MEMBERS

### ARCHITECTS/ENGINEERS/ CONSULTANTS

Barnes Consulting Group LLC,  
Braintree, Mass.

Construction Insight DC LLC,  
Alexandria, Va.

Dake Wells Architecture, Spring-  
field, Mo.

EwingCole, Philadelphia

Exodus HR Group, Durant, Okla.

Forensic Building Experts Inc., Boca  
Raton, Fla.

Fortress Building Envelope  
Consulting, Garner, N.C.

HW Milliron Cos., Buffalo Gap, S.D.

Infinetri LLC, Manchester, N.Y.

Portuondo Perotti Architects Inc.,  
West Miami, Fla.

Right Scope LLC, Kingwood, Texas

Ritter Maher Architects, Baton  
Rouge, La.

RN Engineering, Inspection & Con-  
struction Inc., Coral Springs, Fla.

Roof Asset Management U.S.A.,  
Brunswick, Ohio

Rooftek, Georgetown, Ky.

Sain Engineering Associates,  
Birmingham, Ala.

Sheridan Metal Resources LLC,  
Reading, Pa.

Tompkins & Associates, Carrollton,  
Texas

Warndorf Group, Fairview, Tenn.

Widener University, Chester, Pa.

### CONTRACTORS

50 North Roofing Co. LLC, Wallace,  
N.C.

Acadiana Roof Restoration,  
Lafayette, La.

Ace Roofing Tech, Lubbock, Texas

American Roofing & Construction,  
Beaumont, Texas

ARC Roofing Corp., Miami

Art's Roofing & Construction LLC,  
Asheboro, N.C.

B.R. Productions, Yorkville, Ill.

Bokeelia Builders LLC, Bokeelia, Fla.

Clark Brothers Roofing & Con-  
struction, Roswell, Ga.

Commercial Roofing and Coating  
Systems LLC, Mantua, Ohio

Copp Roofing & Construction Inc.,  
Blue Jay, Calif.

Corona's Roofing LLC, Jackson, Wyo.

Correct Roofing & Construction  
Inc., Ingleside, Ill.

Extreme Florida Roofing, Fort  
Myers

Force Roofing Systems, Franklin,  
Tenn.

Fort Smith Structural Inc., d.b.a.  
FSSI Roofing, Fort Smith, Ark.

Fossil Ridge Roofing and Con-  
struction, Denison, Texas

Goliath Contracting Group Inc.,  
Knightdale, N.C.

Good News Group Inc., Auburn,  
Wash.

Green Convergence, Valencia, Calif.

Happy Days Roofing, Lubbock, Texas

Harley's Construction & Restora-  
tion, East Providence, R.I.

Helius Roofing, Celina, Texas

Indaspec LLC, San Jose, Calif.

Innovative Construction Pros LLC,  
Montgomery, Ala.

Isa's Roofing, Houston

Jireh Roofing Contractor USA Inc.,  
Miami

New Heights Roofing, Post Falls,  
Idaho

Olsson Roofing Co. Inc., Aurora, Ill.

Powers Roofing & Exteriors,  
Mentor, Ohio

Premier Construction Group, San  
Juan, Texas

Premiere Roofing and Guttering,  
Hickory, N.C.

Pro Tech of Georgia, Bremen

Prowest LLC, Mesa, Ariz.

Recovery Roofing Inc., Jacksonville,  
Fla.

RTR Consulting LLC, a.k.a. Rocky  
the Roofer, Alpharetta, Ga.

Safeguard Roofing Inc., Lake Grove,  
N.Y.

Solution Roofing LLC, Charlotte, N.C.

Southern Eco Group, Kernersville,  
N.C.

Sybo LLC, Punta Gorda, Fla.

Tristate Roofing USA Corp., Bronx,  
N.Y.

Vanni Construction LLC, Boca Raton,  
Fla.

Young's Roofing Inc., San Francisco

### MANUFACTURER

Cinnamon & Associates/Cinnamon  
Metals, Springfield, Va.

### SERVICE PROVIDERS

Centerpoint Connect, The  
Woodlands, Texas

Credit Human Federal Credit  
Union, San Antonio

Estes Media, Garwood, N.J.

Ultrashield, Whitehall, Pa.

Viking Global Investors, New York

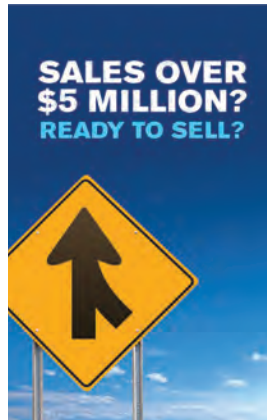
## Mule-Hide Products

Shur-Gard Roof Wrap is a 12-mil polyethylene shrink film that is heated to shrink to the roof to temporarily protect the structure. It exhibits exceptional exterior durability, ultraviolet stability, superior flexibility and high reflectivity. It is a temporary shrink film that protects the structure and can last up to 12 months, which is five to 10 times longer than a traditional tarp. Contact **Mule-Hide Products** at (800) 786-1492 or [mulehide@mulehide.com](mailto:mulehide@mulehide.com), or visit [mulehide.com](http://mulehide.com) for more information.



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If you've even thought of selling, buying or moving up the ladder in your career, you need to contact Dave at (772) 778-4343, ext. 2, or [dave@onlinepcg.com](mailto:dave@onlinepcg.com), or visit [onlinepcg.com](http://onlinepcg.com). All information is kept in the strictest of confidentiality.



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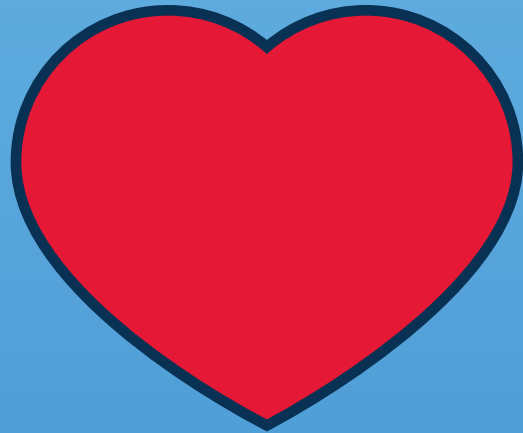


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# JOEL R. BARNES



**WHAT IS YOUR POSITION WITHIN YOUR COMPANY?** I am safety manager for Korellis Inc., Hammond, Ind.

**WHAT IS THE MOST UNUSUAL ROOFING PROJECT OF WHICH YOU HAVE BEEN A PART?** The most unusual work I've done is with the Department of Energy in New Mexico and Texas. I've never had to submit so much documentation for a project. On-site security officers watch us work and escort crew members at all times. Planning these types of jobs can be overwhelming, but Korellis has adapted exceptionally well to the environment.

**WHAT IS YOUR ROOFING INDUSTRY INVOLVEMENT?** Korellis is a proud member of NRCA, and many staff members are involved with NRCA committees. I currently serve on NRCA's Health and Safety Committee, as well as other local chapter committees. I attend conferences, training and seminars with NRCA and CPWR, as well.

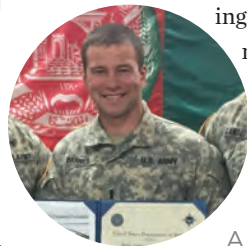
**WHY DID YOU BECOME INVOLVED IN THE ROOFING INDUSTRY?** Roofing isn't a career most people grow up dreaming

about, but those who get involved can see there's a true need for the work. What sold me on being part of Korellis is the company has an employee stock ownership plan and is 100% employee-owned. I enjoy true part-ownership in the company and work to secure its future.

**WHAT WAS YOUR FIRST ROOFING EXPERIENCE?** I had little roofing experience when I entered the roofing industry, but my background was in safety, heavy equipment, fall protection and hazard communication standards, so I knew I could use my knowledge to be an asset for Korellis.

**WHAT WAS YOUR FIRST JOB?** I worked for my father's cellular retail business.

**PEOPLE WOULD BE SURPRISED TO KNOW ...** I served in the Army for 12 years as an infantry and staff officer before training in its safety program. One of my final posts was when I was called back into active status for Indiana's COVID-19 response mission.

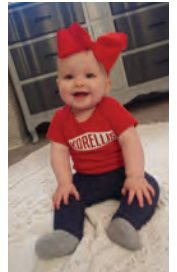


**WHAT DO YOU CONSIDER A WASTE OF TIME?** Complacency and complaining for things to change without taking constructive steps to promote the change yourself.

**WHAT'S THE MOST EXCITING/ADVENTUROUS THING YOU'VE DONE?** I've had some great adventures while in military service. The best was the short time I spent in Japan at a small outpost called Ojojihara near the city of Sendai. The culture, people and environment all made for a truly great experience.

**WHAT ARE YOUR FAVORITE STRESS RELIEVERS?** I love peace and quiet even if it's being left alone to work on things at home or sitting in the dark listening to

music. However, it can be difficult to find peace when my 1½-year-old daughter is growing by the minute and exploring everything in sight. I am completely enamored with her, so it's easy to forget about the peace and quiet that's missing.



**IF YOU COULD MEET ANY HISTORICAL FIGURE, WHOM WOULD YOU MEET? WHY?** That's a tough one because I'm a history buff. Charles Dickens because I love his work. Abraham Lincoln and Dwight D. Eisenhower because I love studying the history of the Civil War and World War II. Lastly, I would meet the Apostle Paul who is known as the first and most effective missionary in history.

**WHAT DO YOU CONSIDER YOUR MOST REWARDING EXPERIENCE?** At Korellis, it's when I teach about safety—my favorite part of the job. The moments that make it rewarding are when I see someone embrace even a small aspect of safety culture or use a safety tool on a job site. If there is one person who took something I taught and passed it on to someone else and prevented an injury, then it has all been worth it.

**MY FAVORITE PART ABOUT WORKING IN THE ROOFING INDUSTRY IS ...** Not many jobs afford an opportunity to look at something tangible and say: "I helped put that there."

**WHAT'S YOUR FAVORITE ROOFING MATERIAL TO WORK WITH? WHY?** My harness because it's necessary equipment. The harness is the most important instrument on any job site.



**WHAT ARE YOUR FAVORITE FOODS?** There's not much I do not like. I like cheeseburgers, seafood, sushi and trying new things. I'm likely the least picky eater in my family.

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