MARCH 2023

THE OFFICIAL MAGAZINE OF

Concrete Parking Structure Safely Demolished with Diamond Tools

WWW.CONCRETEOPENINGS.COM

HYPER SPEED

TPP

ULTRA

ULTRA

WHITE

M-16 design with

bevel surface point for

fast coring right out of

the box

Introducing the new HYPER CORE BORE line of turbo core bits.

D

Your job needs done fast and we have the solution.

Each bit has its own unique segment design that allows you to dial-in the right turbo bit for your application.

Available in 2" through 10" diameters.



M-Segment with three contact points for MACHIII speed and performance

Wide-spaced serrated turbo design for less surface-to-surface contact and speed

SORE

Diamond Products Limited - 333 Prospect St., Elyria, OH 44035 U.S.A. 800-321-5336 - diamondproducts.com

President's Page



he CSDA is over 50 years old, and we are already seeing a new generation taking leadership positions in the industry. Our association focuses on a highly specialized trade in the concrete construction sector, demolition and renovation, and in the early years we were not as prominent as we are today. We got to this place by standing on the shoulders of giants (a quote attributed to Bernard of Chartres and Sir Isaac Newton). We are very proud of our highly energized Board of Directors, Officers, committee chairs and our active members that are taking us to new levels of success, prestige and recognition.

CSDA is much more than an association of concrete sawing and drilling contractors (hence the name CSDA – Concrete Sawing and Drilling Association). Our association involves the highest levels of technological advances in cutting and coring equipment and techniques, slurry management and control, Ground Penetrating Radar (GPR), precision robotic demolition, jobsite safety, training and the list goes on. CSDA offers a value equation for the specifiers and general contractors that are getting good information to help facilitate better contracts, managing expectations and understanding better options and techniques to help them do what they need to do.

As specifiers and GC's start to fully understand our Company Accreditation process, I think we will see the association reshaping our focus and increasing our value as an association in this highly specialized trade. We are working on providing more training opportunities to meet the increased demand in the industry. We are realizing that our aging workforce is forcing changes in ergonomic design of equipment but we also have a focus on encouraging and cultivating younger workers to fill these highly skilled positions.

I am very proud of my membership in CSDA and the great things we accomplish every year. My term as the CSDA president is done and I look forward to the new team taking over the leadership of the association. The future is bright. We are in great hands.

Made with pride and precision

PENTRUDER RS2 WALL SAW

Built with state-of-the-art features, cutting edge technology and world class engineering. Pentruder is the gold standard for concrete cutters worldwide.

You know you want one.

CALL US TODAY 800.321.1240 OREGONCONSTRUCTION.COM Exclusively distributed by



ame great products same great people



CONCRETE CASES



Concrete Parking Structure Safely Demolished with Diamond Tools

Tiny but Mighty: Smaller Machines Can Be Perfect for the Job

CSDA Contractor

Southwest Canada





CSDA OFFICERS

President, Mike Orzechowski DITEQ Corporation mikeo@diteq.com

Vice President, Kellie Kimball Holes, Incorporated kellie@holesinc.com

Secretary/Treasurer, Mark DeSchepper Echo GPR Services mark@echogpr.com

Past President Matthew Finnigan National Concrete Cutting, Inc. matthewf@nationalconcretecuttinginc.com

Executive Director, Erin O'Brien Concrete Sawing & Drilling Association erin@csda.org

CSDA BOARD OF DIRECTORS

(Terms expiring 2023)

Tyrone Conner Austin Enterprise tconner@austin-enterprise.com

Greg Lipscomb Diamond Products Limited glipscomb@diamondproducts.com

> Bruno Silla GSSI sillab@geophysical.com

Kristen Waters Greene Concrete Cutting, Inc. kristenw@greenesinc.com

> Ronnie Wilhite Texas Cutting & Coring, LP ronnie@texascurbcut.com

CSDA BOARD OF DIRECTORS (Terms expiring 2024)

Scott Brown Oregon Tool scott.brown@oregontool.com

Bob Crowther Husqvarna Construction Products bob.crowther@husqvarnagroup.com

Donna Harris Concrete Renovation accounting@concreterenovation.com

> Jeff Keeling Brokk, Inc. jeff.keeling@brokkinc.com

David Perkins Hilti, Inc. david.perkins@hilti.com

CONTENTS

CONCRETE OPENINGS MAGAZINE Official Magazine of the Concrete

Sawing & Drilling Association Volume 32, Issue 1 ISSN: 1093-6483

Concrete Openings magazine is published by O'Brien International, Inc., four times each calendar year in March, June, September and December. Editorial contributions are welcomed and advertisements are encouraged. Please contact the Concrete Sawing & Drilling Association PO Box 324 St. Petersburg, FL 33731 Tel: 727-577-5004 WWW.CSDA.ORG

Magazines, newspapers and private individuals are welcome to reproduce, in whole or part, articles published herein provided that acknowledgements are made in the following manner: "Reprinted courtesy of the Concrete Sawing & Drilling Association, *Concrete Openings* magazine, Issue Date." No alterations should be made in the text of any article.

PUBLISHER

O'Brien International

EDITOR Erin O'Brien

ASSOCIATE EDITOR Kelsey Carriere

CONCRETE CASE CONTRIBUTORS Omar Martinez

Richard Semidey Andreas Kuelz

EDITORIAL REVIEW COMMITTEE

Patrick Harris Joe Shebesta Pat Stepanski

The information and recommendations in this magazine are provided for use by fully qualified, professional personnel. The Concrete Sawing & Drilling Association and the publisher disclaim any responsibility as to their use by readers and shall not be liable for damages arising out of the use of the foregoing information.

All bylined articles published in this magazine represent solely the individual opinions of the writers and not necessarily those of the Concrete Sawing & Drilling Association.



- **12** Tech Talk
- 28 World of Concrete 2023 Wrap Up
- 32 The Business of Business What's Keeping Contractors Up At Night?
- 34 Core Health Sleep is Not an Optional Activity
- 36 Safety Counts OSHA Citation Liability 2023 – Do Not Miss The Forest For The Trees
- 38 Industry Bits
- 44 Certification
- 45 Accreditation
- 46 Membership
- 48 Calendar
- 52 Director's Dialogue





OUR KIND OF PLAYGROUND

BROKK

70

This is the natural habitat for Brokk's compact giants. With the perfect combination of power, operability and accessibility our demolition robots provide efficient solutions to increase profits.



SEE US AT C O N E X P O C O N / A G G



Concrete Parking Structure Safely Demolished with Diamond Tools

N.

rystal Bridges Museum of American Arts is located in Bentonville, Arkansas. It is a world class collection of art aside stunning architecture, as well as over five miles of sculpture and walking trails. The sprawling 120-acre park connects the museum

to downtown Bentonville. According to their website, "The mission of Crystal Bridges Museum of American Art is to welcome all to celebrate the American spirit in a setting that unites the power of art with the beauty of nature." Established by arts patron and philanthropist Alice Walton, Crystal Bridges is a public non-profit charitable organization and welcomes all with free admission. In Spring of 2021, it was announced in a news release that the museum would begin construction on a 6-story, 800 space parking garage. The new, large garage would help accommodate the museums future growth. General Contractor Baldwin & Shell was working alongside concrete contractor Cantera Concrete of Tulsa, Oklahoma, to manage the parking garage project. Unfortunately, after erecting the parking garage, it was discovered that there were quality issues with the concrete. It was determined that the fifth and sixth floor ramps, and the entirety of the sixth floor, including beams and the parking deck, needed to be removed as they would not pass the quality tests.

Concrete Cases continued

Ark Wrecking was contracted to demolish the fifth and sixth floors of the parking garage completely so the GC could start over. Ark Wrecking contracted CSDA member Fine Cut Drilling and Sawing to assist them with the removal of the damaged concrete. Fine Cut was given twenty days to complete their portion of this project, with the start date being October 10, 2022. The project would consist of nearly 7,000' of 8"–10" of slab sawing and nearly 150 wire saw pulls. Fine Cut mobilized trucks and equipment from both their Tulsa and Kansas City locations in order to be prepared for this project. On the first day of work, Fine Cut operators flew all equipment up to the sixth floor via crane and began slab sawing the ramp with three Husqvarna FS 7000 saws. The slab saws were outfitted with Husqvarna and Diamond Products diamond blades.



On days two and three, the team finished slab sawing the ramp and the sixth-floor deck. After that, operators installed a Hilti 1510 wire saw and a Husqvarna CS10 wire saw that were ran daily to complete the project on schedule. Both wire saws were equipped with Husqvarna C1000 diamond wire.

Because the concrete on the fifth and sixth floors didn't come to strength in time, but the first through fourth floors needed to be preserved as they were structurally sound, Fine Cut operators knew that the only way to complete the project was with diamond tool removal methods. Diamond tools were used to keep the remaining structure secure by minimizing vibration and utilizing the shoring that was still in place from the initial construction.

The main safety concern was the structural integrity of the deck shoring once operators began removing slabs of concrete. While removing slabs of the concrete, it was possible that the slabs would stick to the shoring and create holes. To combat this, they inspected the deck after each piece was removed. If holes were found or created, they were covered immediately with new shoring. Operators also had to make sure there was no shifting in the shoring during the removal process. To guarantee that operators were safe, a full-time monitor was stationed below with radio communication to report on any shifting or issues with the shoring.

In addition to the shoring issues, two working days were lost due to inclement weather. Operators experienced freezing temperatures for one week causing equipment to freeze and lock up. To contend with the freezing weather that was making the saws inoperable, Fine Cut operators worked longer hours in the evening when the temperatures were above freezing.



Fine Cut's portion of the project was completed in the requested twenty-day time frame. In total, over 2.5 million pounds of concrete were removed over those twenty days. Fine Cut operators, as well as the other contractors on site, were thrilled with the safe and timely results. Once Fine Cut was able to remove the affected concrete, the GC was able to pour new concrete to replace it and ensure it met all necessary standards.

Omar Martinez, Operations Manager of Fine Cut's Tulsa location, said Fine Cut was chosen for this project due to their reputation and knowledge of large wire saw projects. "Fine Cut has a stellar reputation of finishing these projects on time and without issues," Martinez said about this job, "Fine Cut has solid goals of providing superior service with a commitment to excellence. With this kind of attitude and determination, Fine Cut has grown into a premier and preferred contractor for difficult projects."

It is always a contractor's goal to exceed their customers' expectations. On this project, they put together a great plan and adapted when necessary, resulting in a perfect execution. Martinez went on to say, "It's a great feeling to know a customer is happy with your work and continues to thank you over and over. That's when you know you have exceeded their expectations."

> REVIEW AND COMMENT ON THIS ARTICLE AT: WWW.CONCRETEOPENINGS.COM

COMPANY BIO

Founded in 2002 by Jim Ralston, Fine Cut Drilling & Sawing is a full-service concrete cutting and demolition company. Fine Cut services the Midwest with offices in Kansas City, MO, and Tulsa, OK, but will go anywhere their experienced services are needed. Their core leaders have been working in concrete cutting for over 20 years. They have a fleet of 10 trucks and over 40 employees. Services offered include wire sawing, slab sawing, wall sawing, hand sawing, chain sawing, grinding and polishing services, GPR scanning and even container rental for demolition purposes. Fine Cut has put training and safety at the top of the list. All operators have a minimum of OSHA 30, CSDA 101, CSDA 201, Silica Competent person & CPR Training. They have been a member of CSDA since 2016.

RESOURCES

Demolition Contractor Ark Wrecking

CSDA Contractor Fine Cut Sawing and Drilling

Contact: Omar Martinez Email: omar@finecutusa.com Tel: 918-934-8968 Website: www.finecutusa.com

Methods Used Slab Sawing, Wire Sawing





Tiny but Mighty: Smaller Machines Can Be Perfect for the Job

n South Florida, a private residence was planning a renovation project to update their single-story house into a more modern and spacious two-story house. The project required the slab-on grade foundation to be cut out in areas to install new footings and excavate the area to pour concrete to support the new architecture. They also needed to cut out concrete beams and walls to raise the elevation of the house according to the project specifications and plans.



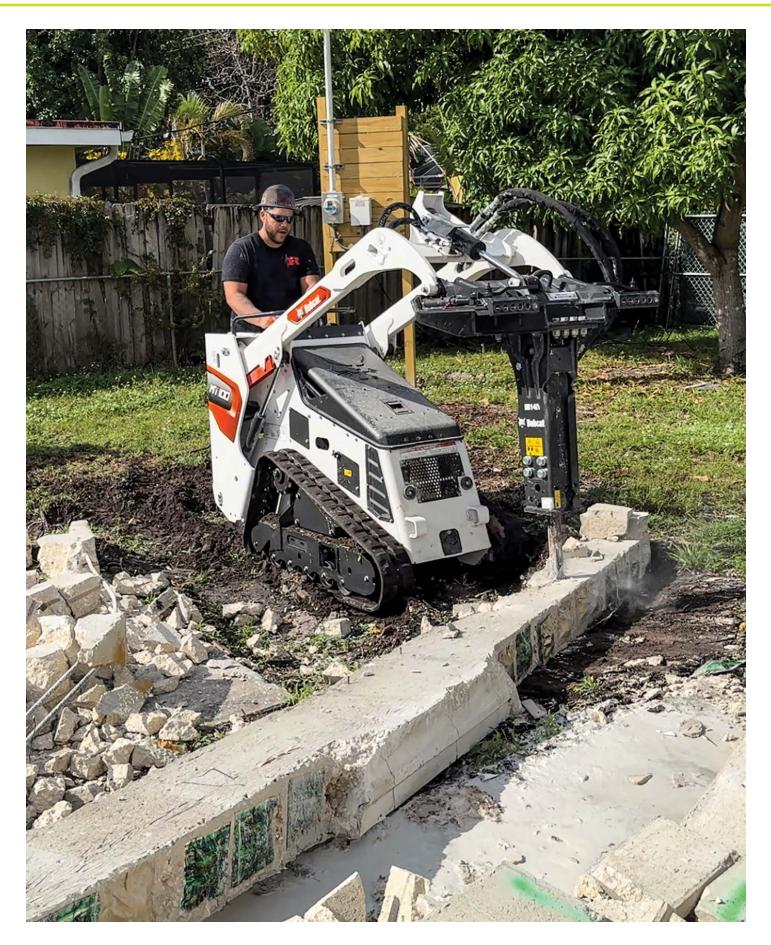
Enter CSDA member Right Way Drilling and Scanning of South Florida. Originally, the general contractor wanted to bring in heavy machinery to quickly carry out demolition, and certainly, larger machinery would have expedited the demolition process itself. However, and justifiably, the customer wanted to prevent any damage to the surrounding landscaping. Right Way operators Richard Semidey, Ivan Herrera and Eric Figueroa chose to employ a mini skid steer and saw cutting equipment to accommodate the customer's request.

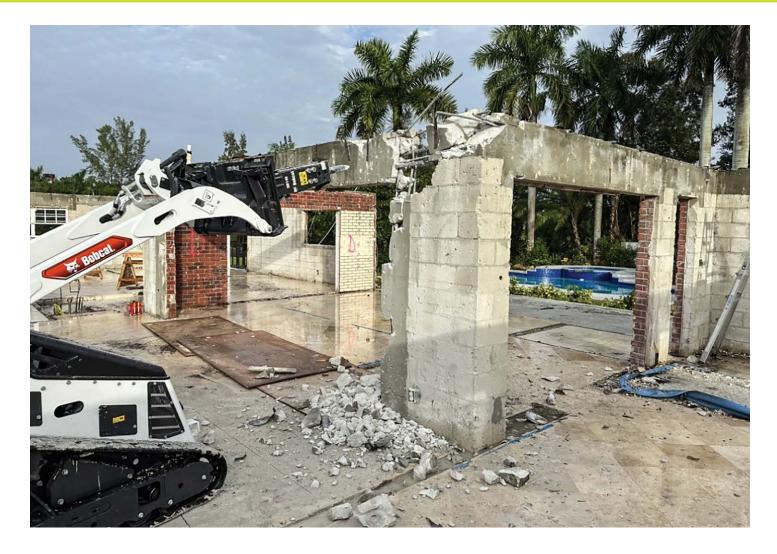
The Right Way team arrived well-prepared for the project and took the time to properly plan and coordinate the work with the customer. This was important in ensuring a successful project, as it helped to avoid any misunderstandings or delays later on. After a walk-through with the customer, Right Way operators set up to first cut the walls and beams with the 24" hand saw and Bobcat MT100 mini track loader with a breaker attachment, and the floor was left for last.

Setting up to cut walls and beams with a handsaw and mini skid steer was a calculated choice by Right Way, as it allowed for precise and controlled cutting while minimizing the potential for damage to surrounding structures, especially in a tight space such as this. Leaving the floor for last was also a good strategy, as it allowed for easier cleanup and removal of debris. At the end of the day, operators made sure the workspace was clean and debris was collected. Right Way operators emphasized that keeping the job site clean and organized was important not only for safety, but also for maintaining a professional appearance and ensuring that work could continue smoothly in the days ahead for the other contractors.









During the removal, the team occasionally used a CB35 Diamond Products hydraulic power unit which was necessary to sawcut in the more cramped areas. Operators solved this concern by using the MT100 with a fork attachment to support the beam while sawing. This was to prevent any injuries to the saw cutter if the beam were to accidentally fall. The team took a careful and methodical approach to the project, which contributed to its success.

Overall, thirty-one cuts from slab through header, approximately 10' above finished floor on concrete masonry unit walls of which headers total approximately 120' long. A total of twenty 310' long exterior openings were created. 140' of 4"–6" concrete slab which is cutting and popping, some areas up to 14" thick. The team handled disposal of all the concrete debris by loading it onto a dump trailer with a bobcat. The job was completed on time and on budget. The customer has also used Right Way on several other projects after. Semidey, President of Right Way Drilling and Scanning, said about the project, "We were very pleased with outcome of the project. Everything went to plan, and the customer was happy with the end result. We have built a good relationship with this customer because they know we are reliable and team players. It's always important to listen to and work closely with the customer to find solutions that meet their needs and expectations while still ensuring the success of the project."

Being safe and professional is crucial for any contractor, and it's especially important for concrete cutting and drilling contractors, who





work with heavy machinery and potentially hazardous materials. CSDA contractors are held to high standards of safety and professionalism, and they often offer a wide range of services to meet the needs of their customers.

By providing a broad range of services, CSDA contractors can help their customers save time and money by having a single contractor handle multiple aspects of a project. This can also help to build trust and establish long-term relationships with customers, who will be more likely to return for future projects and recommend the contractor to others. Ultimately, a focus on safety, efficiency, and broad service offerings is what helps CSDA contractors build a strong reputation in the industry and maintain a successful business over the long term

> REVIEW AND COMMENT ON THIS ARTICLE AT: WWW.CONCRETEOPENINGS.COM

COMPANY PROFILE

Right Way Drilling and Scanning LLC is located in Tamarac, Florida, and has been operating since early 2019. They currently have three trucks and four employees, and offer concrete sawing, core drilling, selective demolition, GPR scanning and utility locating. They have been a CSDA member since 2019.

RESOURCES

General Contractor Riteway Demolition

CSDA Contractor Right Way Drilling and Scanning LLC

Contact: Richard Semidey Email: richard@rightwaycutting.com Tel: 954-383-8611 Website: www.rightwaycutting.com

Methods Used Selective Demolition, Hand Sawing

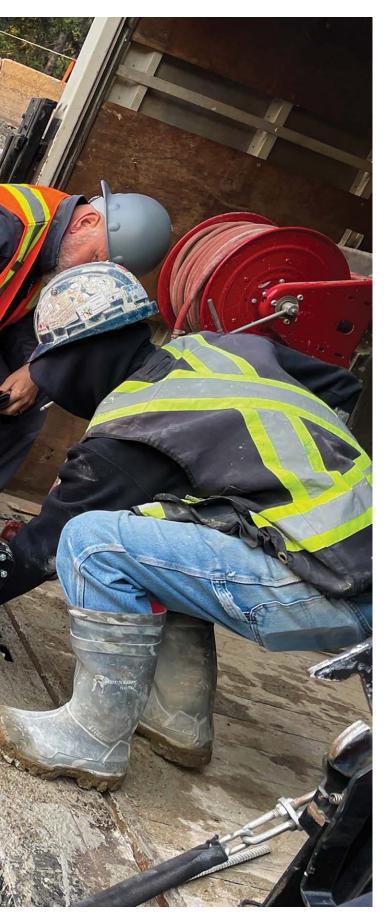
Concrete Cases

CSDA Contractor Wire Saws Four Bridge Abutments in Southwest Canada

he Upper Cambie Bridge is located east of Allison Pass, west of the Manning Park Resort, about 40 miles east of Hope, B.C., Canada. The bridge is named after Henry Cambie, the chief surveyor for the Canadian Pacific Railway. In the 1980s, the bridge underwent a major renovation that included the addition of a new deck and bike lanes.







The Cambie Bridge is a steel truss bridge that was constructed in 1911 and opened to traffic in 1912. It was designed by the engineering firm Dominion Bridge Company and at the time of its construction, it was the largest bridge in Western Canada. Today, the Cambie Bridge is a vital transportation link for the city, serving as a major thoroughfare for cars, buses, bicycles, and pedestrians.

In 2021, CSDA member Canadian Cutting and Coring began assisting General Contractor Hanna Infrastructure in wire sawing the bridge abutments in order to raise the bridge. The temperamental snowy weather in Vancouver only permits this type of construction in warmer times of the year, so the project was paused and then resumed in September of 2022. However, the wire saw that Canadian Cutting and Coring used on the first abutments did not seem up to par.

With the four bridge abutments needing to be sawed, Andreas Kuelz, the company's Estimation and Operations manager, decided to purchase another wire saw to handle the task. The choice was a new Hilti DSW1510-CA, "Hilti managed to deliver the new saw to the job in just ten days, which is quite impressive given the supply chain delays we are experiencing these days," adds Kuelz.

On Tuesday morning, Hilti's heavy diamond specialists Rick Russell and Diana Surwilo joined Canadian Cutting and Coring crew members Chris Beaudoin and Giacomo Ceccolini to show them the new features on the wire saw. Hilti spent the entire day on site with the Canadian Cutting and Coring crew to make sure every detail had been covered. Kuelz said that it was very helpful to learn about the new equipment from Hilti directly on a site.

The Canadian Cutting and Coring team core drilled the two necessary 2" x 42" holes in each abutment needed to install the wire saw using a Hilti DD 500-CA core drill. The Hilti DSW1510-CA wire saw was outfitted with Diamond Products diamond wire to saw the abutments, which each measured 36' long and 4' deep. Following the sawing of the abutments, a Diamond Products Core Cut CC6500 slab saw was used to cut the top of the bridge into sections and was then removed by crane. Each abutment was cut into three angles per the client's request.

Although snow was not a problem for operators in September, the growing wildfires in British Columbia posed an issue to everyone onsite. At some points during the work, there were wildfires as close as four miles away. During the month of September, there were up to 193 active wildfires at a single time. Canadian Cutting and Coring operators were required to wear protective masks and respirators depending on the direction of the wind on days when it was blowing toward the bridge. Notably, on Sunday September 12th, 2022, Vancouver had the worst air quality in the world, with an air quality index (AQI) of 199.



"On sites like this, everything must run very smoothly," explains Kuelz. There is no cell phone reception in a remote place like this, one satellite phone for emergency calls and deliveries to site turns out to be costly due to the remote locations."

The Canadian Cutting and Coring crew finished the four abutments on the following Saturday afternoon. Kuelz said he was impressed with his operators' performances, saying, "They did a great job implementing safety measures while also making sure the customer was happy with the result. The crew performed their work with a high degree of professionalism, skill and attention to detail, while also prioritizing safety and customer satisfaction."

Prioritizing the health and safety is critical in any workplace, but especially in environments where there are inherent risks and hazards. CSDA members take proactive steps to protect employees and ensure that everyone is aware of potential risks in order to create a safer and more productive work environment for all involved.

> REVIEW AND COMMENT ON THIS ARTICLE AT: WWW.CONCRETEOPENINGS.COM

COMPANY PROFILE

Canadian Cutting and Coring is headquartered in Vancouver, B.C., and has been in business for 21 years. They have a fleet of 9 trucks and 15 employees with a second branch location in Victoria, B.C. Their service offerings include wall sawing, slab sawing, core drilling, wire sawing and GPR Scanning, as well as robotic demolition. They have been a CSDA member since 2002.

RESOURCES

General Contractor Hanna Infrastructure Ltd.

CSDA Contractor Canadian Cutting and Coring Contact: Andreas Kuelz

Email: andreas@concretecutting.ca

Tel: 778-320-3831

Website: www.cancut.ca

Methods Used: Slab Sawing, Wire Sawing, Core Drilling



2023 CSDA Board & Committee Meetings

June 6-7 Lexington, KY

September 6-7 Spokane, WA

December 6-7 Houston, TX

2023 CSDA Training Dates Announced!

101 Sawing & Drilling Class October 9–October 13

201 Sawing & Drilling/Operator Certification Class

November 6–November 10

St. Petersburg College, Clearwater, FL







REDEFINE YOUR POTENTIAL

MORE CONTROL. MORE POWER. MORE YOU

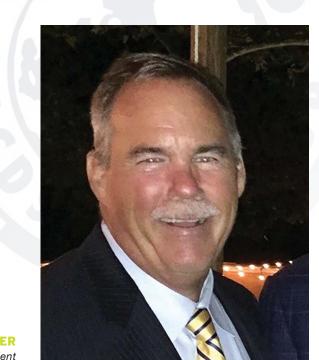
Your potential is our driving force. It inspires us to design technology that develops your professional skills. You know exactly how to get the job done – and our solutions let you do it smarter, safer and with new levels of power. We're proud to present a whole new range of Husqvarna DXR robots that give you much more than power. Get ready to experience control like never before.

To learn more, visit our website or contact your Husqvarna representative to set up a live demonstration.



www.husqvarnaconstruction.com

IACDS President's Insight



DOUG WALKER IACDS President

tarting 2023 with excitement for new projects! So, my first year as the IACDS President begins. Not only is it a great honor to join the Board of Directors of this association, it's also a great opportunity and responsibility. That said, what is our course of action now?

The last couple of years had a profound effect on all of us. The pandemic and the "new normal" it left behind is something we are still struggling to adjust to. The complex economic situation is also something we have in mind. In these conditions, working and moving forward can be a challenging task. Since there are still a lot of uncertainties brought upon us by the economic crisis, international conflicts and other limiting factors, such as the recent natural disasters in various countries, the future of the industry is very hard to predict.

Through all of this, the IACDS and our member associations, contractor members and manufacturers have proved, time and time again, their strength and resilience when faced with adversities. Their willingness to share their knowledge and exchange ideas and projects is the key in the success of all involved.

However, as time passes, the world moves on. Every year, more companies and associations come back together in order to solve the current problems and help the industry grow. We can see this through the return of face-to-face events, such as BEBOSA 2023, which is taking place this March.

So, in order to contribute to this movement, we are very excited to announce the IACDS Annual Convention, which will take place in Venice, Italy, on May 25th and 26th. With this event, we are aiming to reunite the industry professionals in order to discuss the current situation, work hand-in-hand with each other, as well as gain a deeper insight about the state of the concrete drilling and sawing industry.

Meanwhile, on the other side of the globe, CSDA is launching its Annual Convention! The event is scheduled from March 29th to March 31st in Hamilton, Bermuda. Commemorating the association's 50th Anniversary, our goal is to reignite this event and, most importantly, meet each other face-to-face and have a great time!

Overall, for myself, the bottom line is this: while the pandemic has changed a lot, every day we are getting closer to how things were before COVID-19. Moving forward whilst learning from the past, continuing to improve our associations and companies and grow as professionals should be our main goal. 2023 is a very promising year for everyone – let's give it the best we have to offer.

MAXIMUM Performance



Front Pivot Saw





Advanced Digital 4" Display

Enhanced rich color graphics for superior visibility in bright light. Choose between blade speed, engine speed and engine torque views with critical diagnostics.

Power

World-class product support offered through a global Caterpillar dealer network





14" to 42" Blade Capacity with 17.5" Cutting <u>Depth</u>

• 48HP CAT Turbo Diesel

Certified EPA/CARB Tier 4 & Stage V Engine Clean, reliable power with Caterpillar's latest engine technology.

- Adjustable Blade Lowering Speed Dash-mounted for quick, precise adjustment.
- Large 6 Gallon Fuel Tank Convenient left-side filler along with electronic low fuel indication.
- Effective Weight Balance Front-to-rear weight distribution for balanced optimum performance.
- Quick Disconnect Flanges
 Quickly detach from stuck blade to minimize down time.
- Simplified Serviceability Easy, open component access for faster routine maintenance.

And Many More Advanced Features

Diamond Products Limited 333 Prospect St., Elyria, OH 44035 800-321-5336 - diamondproducts.com



PROFESSIONAL SELECTION



Rear Pivot Saw

CC6774 Front Pivot Saw

14" to 36"

Blade Capacity with 15" Cutting Depth

48HP CAT Turbo Diesel

 Easily maneurverable rear pivot



14" to 42"

Blade Capacity with 17.5" Cutting Depth

74HP CAT Turbo Diesel

 High performance large saw



WORLD OF CONCRETE

The World of Concrete is a significant event for professionals in the concrete and masonry construction industries.

With over 48,000 registered attendees from 120 countries attending the 2023 event, the show provides a valuable opportunity for industry leaders to come together, share knowledge and explore the latest advancements in concrete and masonry technology. It's clear that the World of Concrete is more than just a tradeshow. It serves as a platform for fostering industry growth and innovation, creating opportunities for professionals to network and establishing new business relationships.







As the world's largest tradeshow in its category, it's no surprise that the event draws significant foot traffic on the show floor.

The Las Vegas Convention Center is an ideal venue for hosting such a large-scale event, with ample space and resources to accommodate the needs of exhibitors and attendees alike. Exhibiting CSDA manufacturers at the show included Husqvarna, Hilti, Cratos Equipment, Diamond Products, DDM Concut, Diamond Vantage, GSSI, Proceq/Screening Eagle, Brokk, Real Power, DITEQ Corporation, Multiquip, LISSMAC, Vacuworx, Makinex, Superabrasive, Slurry Monster, CenPoint, U.S. Saws and Oregon Tool.

CSDA member Hilti North America is continuing to expand its portfolio of cordless tools in 2023, adding more than 30 new tools to its existing line of over 70 Nuron battery-powered tools. The announcement underscores Hilti's commitment to providing innovative solutions to the commercial construction industry, with a focus on enhancing productivity and efficiency on job sites. At World of Concrete in Las Vegas, Hilti showcased over a dozen of its new Nuron tools, offering customers a hands-on experience to explore the latest innovations. Some of the new tools that Hilti introduced include the NCV 10-22 Ultimate concrete vibrator, the NCV 4-22 Pencil concrete vibrator and the SB 6-22 Wide mouth cordless band saw. These new tools are designed to be powerful, efficient and easy to use, providing construction professionals with the reliability and performance they need to get the job done right.

Husqvarna Construction also had a significant presence at the World of Concrete, showcasing their extensive range of construction products, including their cutting, sawing, grinding and drilling product ranges and complimentary diamond tooling. Visitors had the opportunity to demo multiple tools, participate in a fast-paced obstacle course known as the Trowel Challenge and enter the daily K1 PACE battery-powered power

WORLD OF CONCRETE 2023 WRAP UP

cutter giveaway. The daily K1 PACE battery-powered power cutter giveaway was an exciting opportunity for attendees to win a cuttingedge product from Husqvarna Construction and three winners were chosen during the convention.

While the exhibiting hall was busy with crowds, CSDA hosted two popular training courses: GPR Methods and Theory and How to Prepare Estimates that Win Jobs. The students of each class reported to appreciate the thoroughness and knowledge of the instructors.

After a two-year hiatus due to COVID-19, the *Concrete Openings* Awards Ceremony took place at the CSDA booth in the Central Hall. CSDA Executive Director Erin O'Brien led the ceremony while the winners, CSDA members and show attendees gathered for the ceremony. The awards, which are voted on via a committee based on four merits: pre-planning, use of innovation, degree of difficulty and quality. The job stories with the highest scores in each category are chosen as the winners.

The categories include Building Construction, Industrial Renovation, Infrastructure Renovation and Roads, Bridges and Airports.

Unlike traditional years where there is one winner in each category, there were three winners in the Building Construction category because of the two years' worth of entries.

The winning stories for **Building Construction** were CSDA Contractor Uses Precision Techniques to Concert Downtown Chicago Landmark by Hard Rock Concreter Cutters, The Geisel House Project: Hole's Incorporated's Role in Preserving History by Holes, Inc. and Grand Hotel Redevelopment by Ontario Cutting and Coring Ltd.









Holes, Inc. also won the **Industrial Renovation** category with the story *Iron Rudder Cut Free from Cargo Ship with Diamond Wire* and Kellie Kimball, President of Holes, Inc. was there to accept both awards. The story *CSDA Contractor Readies West Texas Mountain for 10,000-Year Clock* by Austin Enterprise won the **Infrastructure Renovation** category and CTS Mid-Atlantic won the **Roads, Bridges and Airports** category with the story *CSDA Contractor Assists in Planning & Engineering Demolition of Arlington Memorial Bridge*. Representatives from each company were present to receive the awards and enjoyed complimentary mimosas and beverages.

CSDA hosted its annual Networking Reception on Wednesday, January 18th, at the Davidoff of Geneva Cigar Bar. This evening was sponsored by CSDA members Husqvarna, Oregon Tool, Apollo General Insurance Agency, DITEQ Corporation, Hilti, GSSI, Makinex and National Research Company. Thanks to the sponsorships we were also able to raffle off some great prizes while CSDA members and anyone interested in attending were able to network and enjoy beverages and cigars if they liked. Overall, World of Concrete was quite an impressive showcase of the latest innovations and advancements in the construction industry. With over 587,000 net square feet of indoor and outdoor space, attendees had the opportunity to see a wide range of product displays, demonstrations, and competitions.

Some of the notable highlights of the event included the unveiling of new technologies such as the Mobile 3D Robotic Concrete Printer and the AI Site Map Printer, which are likely to revolutionize the way construction projects are planned and executed. The use of electric batteries and aerodynamic improvements in work trucks is also a encouraging development in the direction of technology, as it demonstrates the industry's commitment to reducing carbon emissions and improving sustainability.

It's safe to say that the World of Concrete is an excellent platform for companies to showcase their latest technologies and products, and for attendees to gain insights into the future of the construction industry. This convention is a vital event for professionals in the concrete and masonry construction industries, and it's exciting to see how it will continue to facilitate industry advancements in the years to come.

What's Keeping Contractors Up At Night?

Supply chain chaos and an impending recession are among builders' top concerns in 2023, according to a new survey.

uilders are bullish on infrastructure work this year thanks to federal funding, but expect supply chain snarls and hiring difficulties to persist, according to Associated General Contractors of America's 2023 Construction Outlook National Survey.

COVID-19 continues to impact the industry, hitting supply chains in particular. That's the top concern for builders in the survey, as the uncertainty has caused a variety of negative ripple effects that ultimately mean higher costs and lower profits. As inflation and the specter of a recession continue to loom, contractors are feeling less confident about private sector work.

Builders have reason to be worried: last year 36% of respondents had projects canceled or postponed but not rescheduled. The main reason given, for about half the projects, was rising costs. The association received 1,032 responses overall, primarily from general contractors.

"Although contractors are optimistic overall, that doesn't mean there aren't rocky times ahead," said AGC Chief Economist Ken Simonson in a webinar about the survey.

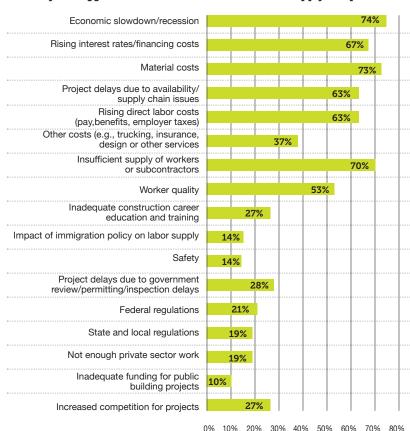
"Even when we've had recessions or slow growth expectations for the economy, contractors are by nature optimists," Simonson said. "But it is notable that in nearly all of these categories, particularly on the private side, contractors have lower net positive readings or deeper negative readings than they did in previous years."

Here are some other takeaways from the survey:

SUPPLY CHAINS ARE STILL BROKEN

Contractors' biggest concern for the coming year is the supply chain. The ongoing issues cause project delays, timeconsuming logistical headaches and price hikes for materials.

"Supply chain issues and material cost issues will continue, and will continue to have profound effects on schedules and affordability of new projects," said Mac Caddell, president of Caddell Construction headquartered in Montgomery, Alabama, during the webinar.



To cope in 2022, 70% of respondents accelerated purchases after winning contracts, about half turned to alternative suppliers or used alternative materials or products and 22% stockpiled items before winning contracts.

HIRING WILL ONLY GET HARDER

Workforce shortages make projects take longer and cost more, and look set to worsen in 2023. In the coming year, 69% of contractors expect to hire and only 11% expect to reduce their headcount, according to the survey. To entice workers, last year 72% increased base pay rates more than in 2021 and about a third boosted bonuses and benefits.

Despite those efforts, 80% are currently having difficulty finding workers and a majority of respondents expect those difficulties to persist. Plus, 83% of contractors worry the shortage and

resulting inexperienced skilled labor pool will pose a challenge to the safety and health of their firm's workers - the biggest threat respondents identified by far.

90% 100%

67%

73%

70%

Cultivating new workers will take time and effort, according to Pittsford, Vermontbased Casella Construction co-founder John Casella.

"I think a lot of the easy levers have been pulled from a wage and a benefits standpoint, and now we're really needing to look at all the things that no one's talking about, with demographics and culture and what our jobs look like," Casella said during the webinar.

INFRASTRUCTURE A BRIGHT SPOT

While the outlook is more dim for private jobs, contractors are optimistic about infrastructure and other public work, the survey shows. That optimism is widespread even though only 5% of respondents are working on new projects funded by the

What are your biggest concerns for 2023? (mark all that apply) Responses: 956

infrastructure act, while 6% have won bids but have not started work. Another 5% have bid on IIJA projects but haven't won awards yet, while 21% said they plan to bid on projects but nothing suitable has been offered so far.

AGC CEO Stephen Sandherr warned the IIJA's Buy America and labor stipulations are still unclear, and said that will make it harder for state and local jurisdictions to advance these projects.

"Federal officials need to deliver on the promise of these substantial new investments in infrastructure and construction," Sandherr said. "To do that, they will need to address much of the regulatory and permitting uncertainty that muted the hoped-for benefits of the bipartisan infrastructure law in 2022."

Julie Strupp is an editor with Construction Dive, based in Washington, D.C. Previously, she worked as a producer with D. C.-area public radio station WAMU 88.5 and DCist, and before that was managing editor of Greater Greater Washington. She's written for a variety of publications, including NextCity, Streetsblog, Washingtonian, Mic and the Wisconsin Center for Investigative Journalism. Compared to 2022, do you expect the available dollar value of projects you compete for in 2023 to be higher/lower/about the same (answer for all market areas in which your business operates): Responses: 1,021

Market	Higher	Lower	Same	Net*	2022 Net
Bridge/Highway	50%	9%	41%	42%	57%
Transportation (e.g., transit, rail, airport)	52%	11%	37%	42%	51%
Water/Sewer	48%	11%	41%	38%	50%
Federal (e.g., VA, GSA, USACE, NAVFAC)	49%	11%	40%	37%	37%
Other Healthcare	42%	14%	43%	28%	41%
Power	41%	14%	45%	28%	35%
Hospital	40%	16%	44%	23%	38%
Public Building	39%	16%	44%	23%	20%
K–12 School	37%	20%	43%	16%	19%
Higher Education	36%	20%	44%	16%	16%
Manufacturing	39%	25%	37%	14%	27%
Data Center	35%	22%	43%	12%	-
Warehouse	36%	26%	38%	10%	41%
Other	26%	16%	59%	10%	-
Multifamily Residential	35%	34%	32%	1%	32%
Lodging	28%	32%	39%	-4%	6%
Private Office	22%	43%	35%	-21%	-8%
Retail	22%	44%	34%	-22%	-8%

*Net equals difference between number of "Higher" and "Lower" responses as percent of total.



Sleep is Not an Optional Activity

By: Erin O'Brien

e spend ½–⅓ of our life asleep. Are we just wasting our time? Of course not. But how much sleep do we really need and what happens if we don't get enough? New research being conducted all over the world is trying to help answer these questions.

First, let's talk about what happens when we are asleep. Most people know that sleep serves as a rest and repair cycle for our bodies. Biologically, we cannot function without sleep. But as life gets busier, often sleep is seen as disposable, something we can reduce or skip altogether in favor of accomplishing another task. I'm certainly guilty of this myself. Have you ever received an email from me at 11pm? You likely have. I'm a night owl and feel very productive late at night – but I've wondered how those late nights were affecting my overall performance, and I imagine many of you should ask yourselves the same question.

There are two types of sleep: non-REM and REM. Further, there are four parts of non-REM sleep. Phase one is where you are in-between being awake and falling asleep. Phase two is Light Sleep. During this approximately 10-minute phase, your heart rate and breathing regulate and your body temperature decreases. Phases three and four are Deep Sleep, which new research suggests could be the most important part of sleep. During this phase, your body repairs your bones and muscles, strengthens your immune system, releases hormones and restores your energy. REM (rapid eye movement) sleep is a phase were your eyes move rapidly behind your eyelids (obviously) and your brain waves are similar to when you are awake. During this phase your breathing rate increases, and your body becomes temporarily paralyzed as you dream. This non-REM/REM cycle lasts about 90-110 minutes and repeats four to six times a night, but with each cycle you spend more time in REM and less time in deep sleep. Ideally, you wake up after your final REM cycle feeling rested and refreshed.

There are two main processes that regulate sleep — Circadian Rhythms and Sleep Drive. Circadian rhythms are controlled by the biological clock in your brain. This clock responds to light cues (i.e., sunrise, sunset) and tells your body



to ramp up production of melatonin at night (when it gets dark). This process is turned off when it senses light again (sunrise or the lights on in the room). Sleep drive is a process that sees your desire for sleep build throughout the day. If you are exhausted, your body will force sleep, even microsleep episodes of one to two seconds of sleep with your eyes open. This is common when driving at night or sitting in a dark room. Napping for more than 30 minutes during the day, especially later in the day, throws off your sleep drive.

But why is sleep important? Why does our body crave it? Three simple reasons:

- Sleep is vital to "brain plasticity," or the brain's ability to adapt to input. Too little sleep means we cannot process what we learned that day and have trouble remembering more in the future.
- Healthy sleep helps clean up the brain by removing waste products from brain cells. This process is less efficient when the brain is awake.
- Sleep and rest affects the rest of the body. When we do not get enough sleep, symptoms of depression, seizures, high blood pressure and migraines worsen. Immunity is compromised, so there is an increased likelihood of illness and infection. Additionally, metabolism decreases, causing weight gain or making it harder to lose weight.

Current sleep research is focusing on the effects of sleep deprivation on metabolism,

hormone regulation and gene expression things that can cause or exacerbate diabetes, body weight, heart conditions, autoimmune disorders and cancers. These studies are proving sleep deprivation causes high blood pressure, obesity, type 2 diabetes, impaired immune function, cardiovascular disease and arrythmias, mood disorders and depression, neurodegeneration and dementia. David F. Dinges, PhD, Professor & Chief of the Division of Sleep and Chronobiology at the University of Pennsylvania Perelman School of Medicine stated "Modern industrial pressures to use time 24 hours a day have led to shift work and a world in which virtually everything law enforcement, airports, transportation, industrial operators, hospitals - operate 24/7. People have come to value time so much that sleep is often regarded as an annoving interference, a wasteful state that you enter into when you do not have enough willpower to work harder and longer."

Studies by Dr. Dinges show that cognitive performance and vigilant attention being to decline quickly after 16 hours of continuous wakefulness. Multiple periods of extended wakefulness also led to degraded cognitive performance, speed and accuracy, as well as working memory. His studies also showed that sleep deprivation causes us to be more emotionally and socially sensitive, overreacting to situations or events that normally wouldn't bother us. Additionally, studies are also proving that during REM sleep, your brain works on emotional processing and memory reconciliation, which helps to "dull the edges" of some of your negative memories and emotions from the previous day. REM also makes us better learners. During this sleep stage, your brain strengthens neural connections formed by the previous day's experiences and integrates them into existing networks. Work done during REM sleep also may make us more creative.

By now, I think we have proven this article title—SLEEP IS NOT AN OPTIONAL ACTIVITY!

How then, to get better sleep and how much is enough?

Ideal sleep seems to be about 7 hours more than 7 ½ does not show increased benefits, but less than 6 ½ hours does start to show negative effects. Some people tolerate sleep deprivation better than others, and younger adults are more vulnerable to the adverse effects of sleep loss than older adults. For this article, I did not research the effects of sleep deprivation on children.

Sometimes sleep deprivation is not by choice. Over 70 million adults in the U.S. have at least one sleep disorder, but 80% of these disorders are believed to be undetected.

In Figure 1, we outline "6 Steps to Better Sleep" and go into more detail below.

- Stick to a schedule Get up and go to bed at the same time every day. If you don't fall asleep in 20 minutes, get out of bed and do a relaxing activity – read or meditate. Go back to bed when you feel tired.
- 2. Pay attention to what you eat and drink Don't go to bed hungry or stuffed. Avoid heavy, large meals within a few hours of bedtime. Limit your consumption of alcohol, caffeine and nicotine in the same timeframe.
- Create a restful environment Keep your room cool, dark and quiet. Avoid screens in your room and in the hour before bedtime (phone, TV, laptop, etc.)
- Limit daytime naps No more than 30 minutes and avoid napping late in the day, unless you work the night shift.
- Physical activity every day Spend time outside each day and break a sweat. Just be careful not to exercise too close to bedtime.
- 6. Manage worries Resolve your concerns before bedtime. Jot down your thoughts or to-dos before you go to bed.

Figure 1

- 1. Stick to a schedule
- 2. Pay attention to what you eat and drink
- 3. Create a restful environment
- 4. Limit daytime naps
- 5. Physical activity every day
- 6. Manage worries

Sleep is not only important, but also vital to our health and long-term well-being. It can seem easy to skip a few hours in order to be more productive, but next time you think about staying up a little later, consider the consequences and maybe just go lay down and do a little reading. Your body and mind will thank you!

Erin O'Brien, MS, ATC is a Certified Athletic Trainer and Vice President for O'Brien International, the association management company that manages the Concrete Sawing & Drilling Association. O'Brien received her Bachelor of Science degree in Athletic Training from Ohio University and her Master of Science degree in Applied Physiology and Kinesiology from the University of Florida. She is also a Certified Level 2 CrossFit Instructor and member of CrossFit9 in St. Petersburg, FL. She is a regular contributor to Concrete Openings magazine. She can be reached at erin@csda.org or 727-577-5002.



Distributed by: Brokk Inc. | Monroe, WA | 1-360-794-1277 | info@brokkinc.com | www.brokk.com

OSHA Citation Liability 2023— Do Not Miss The Forest For The Trees

By: Mark A. Lies, II and Adam R. Young

s 2022 comes to a conclusion, it is important to have a clear vision of the potential legal and other negative consequences that can arise from receiving an OSHA citation in 2023 and beyond. Most employers are likely unaware that OSHA has emerged from the pandemic with a number of structural changes, not the least of which is a very aggressive campaign to replace significant manpower losses of experienced personnel, many of whom were the Baby Boomers who formed the original cadre of the agency.

What does this mean in terms of future enforcement and the potential for receiving a citation and whether the employer should challenge it? As these new OSHA compliance officers began to conduct their initial inspections, employers can expect that many inspections will be conducted in a cursory or incomplete manner because the compliance officer:

- lacks experience in how to conduct a proper inspection either on site or virtually,
- lacks the substantive understanding and knowledge regarding the scope and interpretations of the underlying regulations and recognized industry safe practices, or
- lack of experience with the many elements necessary to establish an OSHA citation and a misguided sense that the mere occurrence of an "accident" or "employee injury" is all the evidence necessary to establish a citation.

CITATIONS LACKING FACTUAL OR LEGAL FOUNDATION

Frequently, because of the foregoing factors, an employer may receive a citation that

- has no factual foundation (i.e., the citation lacks a credible factual basis for the alleged violation description (AVD) as to how the employer allegedly committed the violation or the underlying incident actually occurred;
- has no legal foundation (that is, the regulation does not apply to the underlying factual scenario in the AVD, for example, confusing the requirements for machine guarding with lockout/tagout (LOTO); or
- has no factual or legal foundation.

FAILURE TO CONSIDER POTENTIAL DEFENSES

In addition, because of the foregoing factors, the compliance officers (and

perhaps their supervisors) frequently may not consider that the employer may have bona fide defenses to the issuance of any citation either due to lack of knowledge or experience in assessing the factual information that is forthcoming from the inspection, including:

- A citation is time barred by the statute of limitations (that is, the citation was not issued within six (6) months from when the alleged violation actually occurred, not when OSHA learns about it)
- Unavoidable employee misconduct is the cause of the alleged violation (that is, the employer took all reasonable and feasible actions to avoid the violation from occurring).
- Strict compliance with the regulation is simply not feasible from either existing technology or economically and the employer has developed equally effective alternative means to comply.

EMPLOYER DILEMMA

Once the employer receives a citation, the clock starts running on the day following actual service of the citation and if the employer does not reach a satisfactory settlement or files a written notice of contest by the close of business on the fifteenth (15) working day after service, the citation becomes final, the employer can no longer contest and the employer must abate the citations, whether or not there was any violation in the first place. Note: This timeframe may vary in a non-Federal (state plan) OSHA jurisdiction.

Thus, the employer will have to conduct a timely investigation of the citation to determine

(a) whether the violation occurred, (b) whether the classification of the violation is appropriate (Non-Serious, Serious, Repeat, Willful), (c) whether the penalty is based upon consideration of all the facts and (d) whether abatement is feasible.

PENNY WISE AND POUND FOOLISH

We often hear this scenario where an employer decides not to contest a citation that may have a monetary penalty that appears nominal, without considering that there are many additional negative liabilities that must be considered and the employer later regrets taking such peremptory action.

CONSIDER THE FOREST AND THE TREES

Before deciding to accept a citation based upon the assessment of the penalty, an employer must consider the following negative consequences in a typical scenario. Your company has just received a set of federal OSHA citations. A typical set of citations may have a total penalty of \$15,000 - \$30,000. You have 15 working days from the date of receipt to contest or appeal the citations, or they will automatically become final. You are considering attending an informal conference with OSHA and accepting the citations to "put them behind you." Because of the rather nominal proposed penalty. Putting citations "behind you" may set the Company up for additional higher gravity citations, greater penalties, criminal liability, and lost business down the road. Employers often fail to appreciate the numerous adverse legal and negative business consequences of accepting a set of OSHA citations. In the long term, an employer often will be better served by contesting the citations (especially those to which it has strong defenses) and reaching a settlement with exculpatory, non-admission language that protects the company in collateral litigation.

BUSINESS REPUTATION

Establishment Search

OSHA citations are public records and are made publicly available. All OSHA inspections, citations and failure to contest are publicly available on OSHA's Establishment Search website. As the name suggests, the website is searchable by employer name and location. The Establishment Search identifies the classification, regulation, and status of any citation. State plans (23 states where state agencies enforce occupational safety and health for private employers) may choose to upload additional factual information to that listing.

Press Releases

OSHA issues press releases relating to many citations where the agency often alleges unsafe acts and failures by the employer. The Obama and Biden administration have used this press release tool more often, allegedly to "shame" employers and amplify the effects of the agency's limited enforcement resources. Press releases can be widely reviewed and result in lost business opportunities, jeopardizing existing relationships with business partners, and lost confidence from consumers in publicly facing industries. Bloomberg and other new outlets track OSHA citations and may draft articles about citations issued to and accepted by employers.

Commercial Tracking Services

Many sophisticated businesses use commercially available third party tracking services to run suitability checks on potential business partners. The best services track OSHA citations and can flag the employer as a "vellow" or "red" based on the history of the employer's acceptance of citations. Serious classifications can result in a "yellow" or "red" rating, as can any citations associated with a fatality. Conservative business partners may blacklist employers based on their third party listing, including those who have a "red" rating. If your business works in industries where potential business partners utilize these third party tracking services-especially construction-OSHA citations can have a major negative business consequence.

FUTURE CITATIONS

Repeats

Any citation that the employer accepts goes onto the OSHA Establishment Search database and can serve as the basis for a Repeat. During inspections, OSHA reviews that database and can use any accepted citation as a "predicate" for a Repeat classification for five years. The Repeat must be issued for a substantially similar hazard, normally cited under the same regulation. Repeats are enhanced classifications that result in 5 or 10 times the penalty, currently up to \$145,020. These citations are much more costly to employers and deleterious to business reputations. OSHA penalties are adjusted and increased annually by the agency based upon a number of factors.

Willfuls

Because accepting a citation admits knowledge of an alleged hazardous condition, accepting a citation can also result in a basis for a future Willful citation in the future. Willful violations have a 10 times enhanced penalty currently up to \$145,020. In the case of a Willful citation relating to a fatality -- there is potential criminal liability, prosecution, and imprisonment of managers.

Severe Violator Enforcement Program

OSHA's Severe Violator Enforcement Program ("SVEP") tracks alleged Serious offenders of the OSHA standards. The agency maintains a publicly available list, and includes employers based solely on the allegations in OSHA citations. A Repeat or Willful associated with a fatality results in the employer being placed in the SVEP, as can multiple high gravity citations. The SVEP can result in increased inspections, citations and bad publicity.

TORT LITIGATION

The acceptance of OSHA citations may provide evidence for use in tort litigation. When an employee is injured in a typical accident, the workers' compensation program usually provides the exclusive remedy for employee compensation and recovery. In some states like Wisconsin, Ohio, and California, following the occurrence of an accident and issuance of citations, an employee can pursue and receive an enhanced workers' compensation payment (by up to 50%) based on the acceptance of the citation if the injury were due to a violation of a safety regulation. In certain jurisdictions, a citation depending on the classification can allow an employee to avoid worker's compensation and pursue a direct civil action against the employer.

However, if the injured worker is a non-employee (such as a contractor or staffing agency employee), the worker is not similarly barred from bringing a negligence action.

Depending on the state and circumstances, the acceptance of OSHA citations may be admissible in those actions. A plaintiff may use non-compliance with OSHA standards as evidence of negligence.

CONCLUSION

We regularly advise employers on the defenses they may have to OSHA citations and the bases to contest them. We also provide compliance training, including complimentary webinars to employers and associations. If you need additional information, please do not hesitate to contact us.

Mark A. Lies, II, is a partner with the law firm of Seyfarth Shaw LLP. He can be reached at 312-460-5877 or mlies@seyfarth.com. He specializes in occupational safety and health and related employment law and civil litigation.

Adam R. Young is a partner with the law firm of Seyfarth Shaw LLP. He can be reached at 312-460-5538 or ayoung@seyfarth.com. His practice focuses on occupational safety and health matters, employment and commercial litigation.



LISSMAC

CONSTRUCTION TECHNOLOGY



LISSMAC Corporation 17 Route 146, Mechanicville, NY Phone +1 518 326 9094 sales@lissmac-corporation.com www.lissmac-usa.com

Aquajet Delivers 100th Aqua Cutter in North America

Aquajet, a global leader in the design and manufacturing of innovative Hydrodemolition technology, announces the delivery of its 100th Aqua Cutter in North America.

The milestone marks the growing demand of the Hydrodemolition method in applications ranging from road and bridge repairs to dam and parking garage rehabilitation. The special edition Aqua Cutter 750V features a commemorative design. Rather than a red hood, the unit is black with red and white lettering. The design includes an outline of North America and is clearly marked as the 100th unit.

"This is a memorable and important milestone for Hydrodemolition in North America," said Aquajet business development manager Keith Armishaw. "What once was seen as a niche application has grown to be a viable solution for a variety of applications and industry challenges. Aquajet robots get the job done and help address the shortage of labor with state-of-the-art capabilities. We're excited to see what the future holds."

> For More Information Contact: Roger Simonsson Tel: +46 383 508 01 Email: aquajet@aquajet.se www.aquajet.se

First-of-its-Kind Anchor System Helps Save Contractors Time and Money

Hilti North America, a global leader providing innovative tools, technology, software, and services to the commercial construction industry, introduces the Kwik-X Dual Action Anchor system, the first of its kind on the market, combining the high performance of adhesive anchors and installation speed and simplicity of screw anchors.

Reducing multiple steps in the traditional adhesive anchor installation process, Kwik-X reduces costly man hours and jobsite expenses. Kwik-X can reduce installation time by up to 70% and save up to 20% in total cost of installation when compared to traditional adhesive anchoring systems.



"Contractors can save time and money by reducing the complexity of installation with the Kwik-X. Leading up to a 4x faster installation over traditional adhesive anchors and combined with Hilti's industryleading expertise,



thereby reducing labor costs and helping deliver peace of mind to a jobsite," said Rafael Santos, senior director of the Hilti North America fastening and protection business unit.

Comprised of the convenient Kwik-X pre-portioned adhesive capsule and Kwik HUS-EZ screw anchor, the system provides the necessary performance for safety-critical applications. It reduces the number of steps in the installation process, such as hole cleaning, curing time, and dispensing – eliminating adhesive waste and the need for accessories like brushes, air compressors, and dispensers. This simplicity results in increased productivity by reducing the risk of human error. Additional features such as high performance in real jobsite conditions and the capability to remove and reinstall the anchor in the same borehole help cater to the needs of the installer. These factors help save contractors time and money.

For More Information Contact: Rana Sadiq Tel: 800-879-8000 Email: rana.sadiq@hilti.com www.hilti.com

Husqvarna Launches FS 600 E

Ideal for small service repairs when cutting indoors, the Husqvarna FS 600E is an electric flat saw perfect for use when zero exhaust emissions are allowed. The dual arbors allow the blade to be mounted on either side of the blade shaft for right or left cutting. The small size and lighter weight are ideal for convenient transportation between job sites.

For More Information Contact: Cate Stratemeier Tel: 913-222-9342 Email: cate.stratemeier@husqvarnagroup.com www.husqvarnacp.com

Vari-Cut Diamond Tooling by Husqvarna

The Vari-Cut, one of Husqvarna Construction's most popular blade ranges, was given a major update to deliver up to 15% higher cutting speed and up to 20% longer blade life. The operator will experience less vibrations and a smoother cut. With greater performance and smarter features, it's easier for contractors to keep their days rolling. The new Vari-Cut blades are tailored for specific applications and the power rating of machines, offering a complete solution for a variety of everyday jobs. Using the right blade for the job can boost performance, saving time and therefore costs.

For More Information Contact: Cate Stratemeier Tel: 913-222-9342 Email: cate.stratemeier@husqvarnagroup.com www.husqvarnacp.com



Industry Bits continued



Total Solutions by Husqvarna: PACE

Powerful. Agile. Cordless. Electric. The PACE battery system is a series of 94-volt equipment. Contractors can expect power and performance equivalent to gas and electric power with all the additional benefits battery powered equipment brings to both operators and the environment.

The PACE battery system can be utilized for more machines as the battery-powered family expands in the future.

DE 120 PACE features the sturdy design of the Husqvarna PACE battery system and enables usage in tough, heavyduty conditions, indoors and outdoors. It is best used with the B750X battery to deliver high power and fast charging – and a job well done. The DE 120 PACE will be available later in 2023.

For More Information Contact: Cate Stratemeier Tel: 913-222-9342 Email: cate.stratemeier@husqvarnagroup.com www.husqvarnacp.com

Buy & Sell Used Equipment via CSDA.org

With features like **"search by keyword"** and **"filter by location,"** it's easier than ever to find or sell equipment in one place!

www.csda.org



FORGE Foundation Selected as Education Presenter at World of Concrete Expo

Golden Triangle workforce development foundation, FORGE, presented a course as part of the education track at the 2023 World of Concrete Expo last week in Las Vegas, Nevada.

The session, "Finding and Building Tomorrow's Workforce," focused on educating contractors about developing grassroots workforce programs that directly impact recruitment and retention of skilled employees. Five FORGE team members attended as instructors and hosted a 2-hour interactive train-the-trainer session. "Our organization was honored to be asked to teach contractors from around the world the things we've learned in workforce development," said Katie McCrary, FORGE founding board member. "Opportunities like these allow us to shine a light on our local community's efforts and make connections with other people who can share insight."

Founded in 2018, FORGE is comprised of a group of multigeneration, locally owned small businesses with a vision of strengthening the partnerships to develop the skilledconstruction workforce pipeline in Northeast Mississippi. Today, the organization and its membership produce a fullscale workforce initiative from kindergarten to university, involving every segment of the education pipeline in-between.

"There's no better place to present an overview of the FORGE foundation, and how they've successfully raised awareness of construction careers in their local community, than at a trade show hosting the top concrete construction companies," said Craig Caliva, Manager of US Contractor Direct Sales for Husqvarna, North America. "What the members of FORGE have accomplished in four short years – bringing the community, students, educators, and the construction industry together – is impressive and should be replicated across the country."

World of Concrete is a concrete and masonry trade show and education event that draws more than 1,500 exhibitors and thousands of industry professionals from all over the world. Exhibitors will include original equipment manufacturers as well as U.S. equipment and tool distributors that serve the concrete, construction, and masonry industries. Approximately 160 business, technical and safety education courses are offered for professional development.

For More Information Contact: Katie McCrary Tel: 662-327-1964 Email: katie.mccrary@mccrarywest.com www.forgeyourpath.org

Western Global to Introduce New Products and Highlight Current Lineup at CONEXPO 2023

Western Global, a leading manufacturer of fuel and fluid storage solutions, will introduce a new product line and highlight current products in booths S61138 and D2138 at CONEXPO-CON/AGG 2023 March 14-18 in Las Vegas. With booth coverage both indoors and outdoors, as well as a free educational seminar during the show, attendees will have multiple opportunities to learn about developments in on-site fuel and fluid storage solutions and how to improve fueling efficiency on their jobsites.

"The fuel industry has evolved significantly in the three years since the last CONEXPO," said Jeff Lowe, director of product and sales enablement at Western Global. "We are excited to not only highlight the longstanding



benefits of on-site fuel storage, but also how our products are ready for emerging developments in the fuel industry like renewable diesel and emissions reduction."

With the rising cost of fuel and an increasing focus on environmental safety, understanding jobsite refueling options is more important than ever. Western Global director of product and sales enablement Jeff Lowe will present information about how operations can take control of their fuel supply during a seminar titled "Improve Fuel Efficiency with On-site Fuel Storage." This session is part of CONEXPO's educational programming and is offered on March 15 from 1 to 2 p.m. in West Hall 206. The presentation will discuss the benefits of on-site fuel tanks and offer selection considerations to help contractors determine the best solution for their jobsite.

For More Information Contact: Jeff Lowe Tel: 743-223-8266 Email: jeff.lowe@western-global.com www.western-global.com



BOOMNATION*

BoomNation Announces Jump of More Than 8,000% in Skilled-Worker Applications

BoomNation reports impressive growth in 2022 and predicts continued success in balancing the supply and demand for skilled workers in the new year. BoomNation is a skilled-community platform connecting tradespeople with employers who are looking for a better way to engage with and hire qualified workers. The platform also equips skilled workers with the tools they need to showcase their skills and credentials and find better work faster.

BoomNation began the year building its jobs database and by the end of 2022, BoomNation reported that almost 10,000 job applications were processed through the app, a one-year increase of more than 8,000%. 2022 also brought tens of thousands of skilled workers to the community – a cumulative year-over-year increase of more than 457% and 350% growth quarter-over-quarter.

"Through the lens of the worker journey, BoomNation is building a platform to connect and engage the skilled community," said Brent Flavin, Co-Founder and Co-CEO of BoomNation. "With tens of thousands of skilled workers using the platform and hundreds of jobs available each day, BoomNation is quickly becoming the go-to place for workers to build community and find better work faster than ever before."

Across social channels, BoomNation is described as "LinkedIn for Blue Collar" and the "Blue Collar Twitter," but according to Flavin, a more accurate description is one recently posed by a skilled worker in BoomNation's community feed that calls the platform, "The first social media site I've actually liked and felt like I belonged."

For More Information Contact: Amanda Smith Tel: 720-840-1898 Email: amanda@benedictad.com www.boomnation.com

Diamond Vantage Welcomes New Employee

Garry Henderson served in the US Army for six years, after completion of his military service he began his career in the construction trades as a diesel equipment mechanic.

Garry transitioned into the concrete cutting industry in 1999, first as a mechanic then he



moved into a sales role for a national cutting company. A few years later he was offered a chance to move into a territory sales role for a diamond blade manufacturer.

Garry has had several roles in the diamond blade industry, he has held positions from territory manager to regional sales manager and then national sales manager.

Garry Henderson

"I really enjoy the lasting relationships that you make in this industry and the creative ways our customers come up with a solution to get the job done"

For More Information Contact: Garry Henderson Tel: 404-998-1756 Email: ghenderson@diamondvantage.com





Mark your calendar for Mecalac's Spring 2023 Product Launch and Demo Day!

Join us in Denver and be among the first in North America to see an exciting new Mecalac product line. You'll also have the opportunity to participate in equipment demonstrations, talk with product experts and operate the equipment yourself. Come experience the ease of use and gamechanging design of Mecalac machines!

What: We'll introduce a new product line to the North American market and demonstrate Mecalac's innovative crawler skid excavators, wheeled excavators and swing loaders, including the new models. You'll also have the opportunity to operate the equipment and experience the unique capabilities that enable a whole new way of working.

When: Tuesday, May 16, and Wednesday, May 17. The event will begin with dinner Tuesday evening. The product launch, demonstrations and opportunities to operate will take place on Wednesday. Mecalac will provide Tuesday evening lodging and meals during the event.

Where: The beautiful Rocky Mountains of Denver, Colorado.

For More Information Contact: Ashley Stoppleworth Tel: 701-373-0062 Email: ashley@ironcladmktg.com www.mecalac.com

DEWALT Has Released New FLEXTORQ Square Drive Modular Right-Angle Attachments

Available in a 1/4" (DWAMRA14FT) or 3/8" (DWAMRA38FT) square drive, benefits include:

- Sockets seamlessly attach eliminating the need for additional socket adapters
- Forged gears withstand tough applications and provide up to 10x Longer Life*
- 2-in-1 design allows users to quickly switch between standard and ultra-compact attachments
- 1-1/2" head height for ultimate accessibility

Images as well as the product guide with more information can be downloaded from the DEWALT newsroom here. DEWALT FLEXTORQ Square Drive Modular Right-Angle Attachments are available now where DEWALT products are sold.

For More Information Tel: 800-433-9258 DEWALT.com





Registration Now Open for ACI Concrete Convention in San Francisco, California

The American Concrete Institute is pleased to host the ACI Concrete Convention in San Francisco, CA, USA, on April 2-6, 2023. The inperson event showcases companies, projects, research, and more, plus numerous networking events where you can expect to meet with many of the concrete industry's leading professionals. Attendees may also visit the exhibit hall to learn more about the many products and services offered by exhibitors.

The convention will have a robust schedule that includes over 300 committee meetings, 45+ technical sessions, an industry trade exhibition, networking events, and much more. The committee meetings are open to all attendees. Select programming will also be available on-demand to attendees who choose to participate remotely.

For More Information Contact: Jose Carrasco Tel: 248-848-3160 Email: Jose.Carrasco@concrete.org www.concrete.org



OPERATOR CERTIFICATION

CSDA's Operator Certification is a comprehensive six-day program that combines detailed classroom instruction with on-slab demonstration and evaluation of advanced concrete cutting techniques. Safety, proper equipment use and efficiency are emphasized. CSDA certified operators are recognized industry-wide for their proficiency in the full range of sawing and drilling applications.

MINIMUM REQUIREMENTS

- Successful completion of CSDA Cutting Edge, Slab Sawing & Drilling 101, Wall Sawing 101 or Wire Sawing 101
- Three years field experience (4,500 hours)
- Successful completion of 10-hour OSHA Construction Safety course
- · No more than one lost-time injury within the last three years
- · Unrestricted driver's license
- · Negative drug test within 30 days of taking the course



ACCU-CUT CONCRETE SERVICES, INC. Clearwater, FL

ACE CONCRETE CUTTING, LLC Cumberland, RI

AGGREGATE TECHNOLOGIES, INC. Houston, TX

AUSTIN ENTERPRISE Bakersfield, CA

BAY LINE CUTTING & CORING, INC. San Francisco, CA

CHESCO CORING & CUTTING, INC. Malvern, PA

COBRA CONCRETE CUTTING SERVICES CO. Arlington Heights, IL

CON-COR CO., INC. Menomonee Falls, WI

CONCRETE CUTTING & BREAKING CO. Grand Rapids, MI

CONCRETE CUTTING SPECIALISTS Freeland, MI CONCRETE RENOVATION, INC. San Antonio, TX

CONSTRUCTION DEBRIS REMOVAL, INC. St Augustine, FL CR MEYER

Oshkosh, WI

D.M. CONLON/DAN-KEL CONCRETE CORING, SAWING & SCANNING Longs, SC

DELTA CONTRACTORS & ASSOCIATES, LLC Owings Mills, MD

DIXIE CONCRETE CUTTING, INC. College Park, GA

ECHO GPR SERVICES Paola, KS

FINE CUT CONCRETE DRILLING AND SAWING LLC Pleasant Hill, MO FORRISTALL

Bradenton, FL

HAFNER & SON, INC. Danielsville, PA

HARD ROCK CONCRETE CUTTERS Wheeling, IL



HOLES INCORPORATED Houston, TX

HOLES OF SAN ANTONIO, INC. San Antonio, TX

INTERNATIONAL DRILLING & SAWING, INC. Montgomery, AL

JACK DOHERTY CONTRACTING Woburn, MA

KRAUS-ANDERSON CONSTRUCTION CO. Minneapolis, MN

M6 CONCRETE CUTTING & CORING Wichita, KS

MAVO CONCRETE SAWING SERVICES INC. New Brighton, MN

NEIL'S CONCRETE CUTTING, INC. Taylorsville, UT

TRUE LINE CORING AND CUTTING OF MARYLAND, INC. Baltimore, MD

WALKER CUTTING SERVICES Hammonton, NJ



ACCREDITED COMPANIES

The CSDA Accredited Company Program is the first of its kind in the industry. This program has been created for cutting contractors to provide owners, architects, engineers, general contractors and government officials with a valuable pre-qualification tool that acknowledges sound business practices. It is available to all sawing and drilling contractors.

A COMPANY MUST MEET THE FOLLOWING CRITERIA TO ACHIEVE ACCREDITATION :

- · Meet the basic safety and insurance requirements of the industry
- Undertake sound operational and financial best practices
- Provide evidence it has taken part in basic training or certification programs to better its employees and the company as a whole
- · Successfully pass a written application review

ADVANCED CONCRETE SAWING St. Paul, MN AMERICAN GPR SERVICES LLC Avondale, AZ AUSTIN ENTERPRISE Bakersfield, CA COBRA CONCRETE CUTTING SERVICES CO. Arlington Heights, IL CONCRETE CUTTING SYSTEMS, INC. Philadelphia, PA CONCRETE CUTTING SYSTEMS, PITTSBURGH INC. Pittsburgh, PA

DIACORE CONCRETE CUTTING SPECIALISTS Frenchs Forest, NSW, Australia ECHO GPR SERVICES Paola, IL FINE CUT CONCRETE DRILLING AND SAWING, LLC Pleasant Hill, MO HARD ROCK CONCRETE CUTTERS, INC. Wheeling, IL HARD ROCK CONCRETE CUTTING Raleigh, NC HOLES INCORPORATED Houston, TX

IN-PLACE MACHINING COMPANY, LLC Batavia, OH INTERNATIONAL DRILLING & SAWING, INC. Montgomery, AL INTERSTATE SAWING & DEMOLITION West Bend, WI MAVO CONCRETE SAWING SERVICES, INC. New Brighton, MN ONLINE CONCRETE CUTTING SERVICES PTY. LTD. Seven Hills, NSW, Australia RECLAIM COMPANY, LLC Fairmont, WV. WALKER CUTTING SERVICES Hammonton, NJ



GPR CERTIFICATION

GPR Certification is for experienced GPR operators who have expanded their knowledge of the methods, theory and practical application of GPR imaging. Certified operators receive classroom and hands-on time with experienced instructors and representatives from leading GPR manufacturers.

- A GPR CERTIFIED OPERATOR:
- Has shown proficiency in performing scans and reading and interpreting results
- · Can select the appropriate GPR scanner for the job
- · Passed a written and practical test
- · Was issued a certification card upon completion of the class

ADVANCED CONCRETE CUTTING & CORING Charleston, SC **ADVANCE CONCRETE SAWING** Saint Paul, MN AMERICAN GPR SERVICES, LLC Avondale, AZ **ASAP CORE DRILLING & FIRE SAFETY, INC.** Lorton, VA **BREAK AWAY CONCRETE CUTTING INC.** Coyote, CA **BROOKBANK CORE DRILLING & SAWING, INC** Waldorf, MD CANADIAN CUTTING AND CORING LTD. Toronto, ON CANADA **CITY SCAN CORP** Bronx, NY **COBRA CONCRETE CUTTING SERVICES CO** Arlington Heights, IL **CONCRETE CORING CO. OF CINCINNATI, INC.** Cincinnati, OH CONCRETE SCANNING AND IMAGING INC. Mississauga, ON CANADA **CONCRETE TECHNOLOGY ASSOCIATION** College Park, MD CONQUEST DEMOLITION Buda, TX

D & D DIAMOND CUTTING AND CORING Wainfleet, ON CANADA DALY CONCRETE CORING LIMITED Courtice, ON, Canada DIAMOND CONCRETE SAWING Grand Rapids, MI **DIXIE CONCRETE CUTTING CO., INC** College Park, GA ECHO GPR SERVICES Paola, KS FINE LINE SAWING & DRILLING INC. Newark, CA HARD ROCK TECHNOLOGIES. INC. Prospect Heights, IL **HI-TECH CONCRETE CUTTING INC.** Bolton, ON CANADA HOLES INCORPORATED Houston, TX **IDS GEORADAR NORTH AMERICA** Golden, CO **INTERNATIONAL DRILLING & SAWING, INC.** Montgomery, AL **INTERSTATE SAWING & DEMOLITION** West Bend, IL JEM GPR Granger, IN

KENNEDY RICHTER CONSTRUCTION North Charleston, NC LOMBARDO DIAMOND CORE DRILLING **COMPANY, INC.** Santa Clara, CA **MAVERICK CUTTING AND BREAKING** Minneapolis, MN MAVO CONCRETE SAWING SERVICES, INC. New Brighton, MN **METRO CONCRETE CUTTING & CORING, INC.** Toronto, ON CANADA **MOORE CONCRETE CUTTING LLC** Brentwood, NH PREMIER LOCATES INC. Toronto, ON CANADA SAFECORE SYSTEMS, INC. Libertyville, IL **SCAN TEK GPR** Davie, FL **TASMANIAN ASSET PROTECTION** Sandy Bay, TS AUSTRALIA **TEXAS CUTTING & CORING, LP** Round Rock, TX **VERIFY LOCATING/SAF-CUT** Raleigh, NC

CONTRACTOR:

ACME CONCRETE PAVING Spokane, WA **BLAKE CONSTRUCTION OF VA, INC.** Roanoke, VA **CORE PRO** Suwanee, GA **COYOTE CONCRETE CUTTING LLC**

Fairfield. OH

FORRISTALL ENTERPRISES, INC. Bradenton, FL

EMPIRE BUILDING DIAGNOSTICS. INC. Lackawanna, NY

NOOR TRADING & CONTRACTING Jeddah. Saudi Arabia

SCIAGE ET FORAGE DE BÉTON AIC Montreal, Quebec, Canada

SCOTT CONSTRUCTION COMPANY LLC Dickson, TN

<u>M E M B E R</u> ENEFIT

SKY SPECIALIZED Jeddah, Saudi Arabia SUPREME SAWING AND SEAL INC Balch Springs, TX

AFFILIATE:

CINTEC AMERICA, INC. Ottawa, Canada

INDIVIDUAL SPECIFIER:

GEORGE SEEGEBRECHT Concrete Consulting Engineers, LLC

INDIVIDUAL FIELD PERSONNEL:

RUSSELL ARMITAGE Concrete Scanning and Imaging Inc.

INDIVIDUAL OPERATIONS: TIMOTHY MITCHELL

SAFETY RESOURCES

AND TOOLBOX SAFETY TIPS (TSTS)

- 230-page CSDA Safety Manual
- Safety Handbook in English/Spanish
- · Safety Videos for concrete cutters
- Over 100 Toolbox Safety Tips (TSTs)

DISCOUNT PROGRAMS

(Csda

(Csda

WIRE SAWIN

(Csdq

SAFETY

The Association negotiates member benefit programs with national vendors like Staples, UPS and V-beltsupply.com in order to provide cost-savings opportunities for CSDA Members

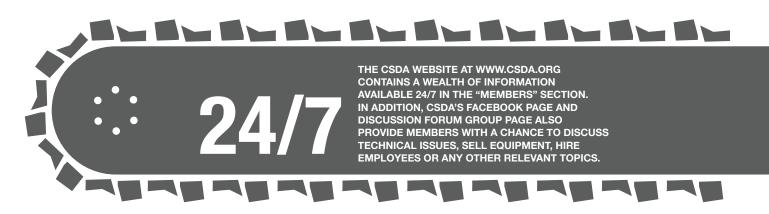
AT THE ANNUAL CONVENTION AND QUARTERLY MEETINGS

The number one benefit for members has always been the opportunity to network with cutting professionals at the annual convention and quarterly meetings. This networking provides opportunities to forge new relationships and learn from other experienced professionals.



NEXT GEN **CSDA NEXT GENERATION GROUP**

The group aims to continue the growth of the association while serving the needs and wants of the younger generation, with the goal of continuing to set a standard of excellence.



MEMBER TESTIMONIAL

While we had known of the CSDA, we had not understood the importance of the organization until after the acquisition of Central Concrete Cutting Inc. and Jack Sondergard.

After a lengthy conversation with Jack at the Annual Convention and Tech Fair in Arizona, he had made me aware of all the benefits that come along with continued membership,

Josh Sherman Mavo Concrete Sawing Services

such as, access to specialized trainings and certifications, access to standards and specs, and best practices of the industry, safety manuals, TST's and so much more. Not to mention all the networking within the association itself and relationships built with other companies.

TRAINING

OVER 4,000 INDUSTRY PROFESSIONALS HAVE GRADUATED FROM MORE THAN 20 CLASSROOM, HANDS-ON AND ONLINE CSDA TRAINING AND CERTIFICATION PROGRAMS FOCUSED ON CUTTING DISCIPLINES, ESTIMATING, POLISHING AND SAFETY. ONLINE TRAINING AT WWW.CSDATRAINING. COM OFFERS A COST-EFFECTIVE ALTERNATIVE TO THOSE NOT ABLE TO AFFORD THE TIME OR THE MONEY TO SEND OPERATORS TO CLASSES.





DUES SCHEDULE

REGISTER ONLINE AT WWW.CSDA.ORG

GROSS SALES	NORTH AMERICAN Contractor	POLISHING Contractor	GPR IMAGING Contractor	MANUFACTURER	DISTRIBUTOR	OVERSEAS CONTRACTOR	AFFILIATE
\$0 – 1M	\$750	\$750	\$750	\$1,585	\$1,150	\$475	\$925
\$1 – 2M	\$1,195			\$1,955	\$1,465		
\$2 – 3M	\$1,830	\$1,500	\$1,500	\$2,905	\$2,175		
\$3 – 5M	\$2,455			\$4,650	\$3,500		
\$5 – 10M	\$3,105			\$6,285			
> \$10M	\$3,895			\$7,750			

📑 in 🕌 📴 间

For more information about CSDA membership, visit www.csda.org, call 727-577-5004 or email info@csda.org.



March 27-28, 2023

CSDA Spring Board & Committee Meetings

Hamilton Princess Resort & Beach Club Hamilton, BERMUDA Tel: 727-577-5004 Email: info@csda.org

March 29-31, 2023

CSDA Annual Convention & Tech Fair

Hamilton Princess Resort & Beach Club Hamilton, BERMUDA Tel: 727-577-5004 Email: info@csda.org

March 31, 2023

CSDA Annual Meeting

Hamilton Princess Resort & Beach Club Hamilton, BERMUDA Tel: 727-577-5004 Email: info@csda.org

May 25-26, 2023

IACDS Annual Convention

Venice, Italy Tel: +34 911 294 440 Email: info@iacds.org

June 6–7, 2023

Summer Board & Committee Meetings

Lexington, KY Tel: 727-577-5004 Email: info@csda.org

September 6–7, 2023

Fall Board & Committee Meetings

Spokane, WA Tel: 727-577-5004 Email: info@csda.org

October 11-12, 2023

Chicago Build Expo 2023

McCormick Place Chicago, IL Tel: 312-924-9772 Email: lilian.ho@oliverkinrossevents.com

October 9–13, 2023

Sawing & Drilling 101 Course

St. Petersburg College Clearwater, FL Tel: 727-577-5004 Email: info@csda.org

November 6–10, 2023

Sawing & Drilling 201/ Operator Certification Course

St. Petersburg College Clearwater, FL Tel: 727-577-5004 Email: info@csda.org

November 11, 2023

GPR Certification Course

St. Petersburg College Clearwater, FL Tel: 727-577-5004 Email: info@csda.org

December 6–7, 2023

Winter Board & Committee Meetings

Houston, TX Tel: 727-577-5004 Email: info@csda.org

Advertising and Readership





Target the Specialized Industry of Concrete Cutting, Polishing and Imaging

Advertising in *Concrete Openings* magazine is the only way to reach the specialty market of cutting, polishing and imaging contractors who work with concrete, asphalt or masonry because it is specifically targeted to this segment of the industry.

How Do You Reach 19,000+ Concrete industry Professionals?

Each issue of *Concrete Openings* magazine is sent to more than 12,000 operators, equipment manufacturers and suppliers in the concrete cutting, polishing and imaging industry, and more than 7,000 specifiers of these services around the world.

Not a Subscriber?

Get your free subscription today!

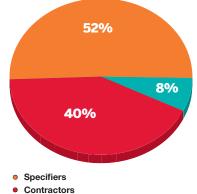
Visit www.concreteopenings.com and click "subscribe."

THE OFFICIAL MAGAZINE OF CSda

Who Reads the Magazine?

Concrete Openings reaches cutting, polishing and imaging contractors as well as specifiers of these services, including engineers, architects, general contractors and governmental agencies. Why waste your message on unnecessary circulation? Advertising in *Concrete Openings* guarantees a targeted audience of industry professionals.

READERSHIP BY PROFESSION



Manufacturers, Distributors

CSDA Social Media

CSDA's social media pages are packed with all the latest news, updates, photos and videos from the association and *Concrete Openings* magazine. Look out for exclusive content and become "friends" with others who are looking to network and promote the sawing and drilling industry. Join our growing fan base and stay in touch with the association through your PC, laptop or mobile device. Find direct links to these pages at www.csda.



Circulation

19,000+	minimum, per issue		
12,000+	member and prospective member		
	companies made up of contractors,		
	manufacturers, distributors and		
	affiliates		
7,000+	general contractors, engineers,		
	architects and government officials		
	who specify cutting, polishing and		



Readership Per Issue

A poll of *Concrete Openings* subscribers revealed that 66% pass on their copy of the magazine to at least one other person, with almost 25% stating that the magazine is passed on to four or more people each issue. This translates to an average of four people reading each issue of the magazine for a total readership per year of approximately 60,000.



Concrete Openings Website

Visitors to the *Concrete Openings* website can access our advertisers at the touch of a button!

As a compliment to your ad placement, we include a direct link to your website on our Advertisers page. *Concrete Openings* also offers banner advertising opportunities throughout the year and a full, page-turning copy of the magazine, including ads, available for visitors on the website.

Visit **www.concreteopenings.com** for more information.

Advertisers

To receive additional information about products advertised in this issue, contact the vendors below.

PAGE	ADVERTISER	PHONE EMAIL
35	Aquajet	anne@ironcladmktg.com
5	Brokk Inc.	anne@ironcladmktg.com
50	DDM Concut	ggundrum@ddmconcut.com
Front inside cover, 26-27, back inside cover	Diamond Products	jpalmer@diamondproducts.com
	Diamond Vantage	tlaidlaw@diamondvantage.com
Back outside cover,	Husqvarna	sarah.martin@husqvarnagroup.com
2	ICS	jessica.gowdy@oregontool.com
37	Lissmac	a.jung@lissmac-corporation.com
33	Real Power	DSmith@contourhardening.com

CSDA Launches NEW Online Training Site!

Check out our updated Cutting Edge course-perfect for your new hires, operators with less than two years of experience or anyone who needs to learn more about diamond tools. The course is completely online and can be taken at the student's own pace.

This course covers:

- · Intro to Concrete Sawing & Drilling
- Cutting Edge

- Jobsite Safety
- Toolbox Safety Tips
- Silica Competent Person Training
- GPR Methods & Theory

Contact info@csda.org for bulk pricing packages. Visit csda.thinkific.com to learn more and sign up!



WWW.DDMCONCUT.COM

Welcome to a NEW PATENTED TECHNOLOGY REVOLUTION MERICAN OWNED SINCE 1946 MADE IN THE USA

Revolutionary blades

are available in multiple

diameter and kerf widths

custom arbor configurations.

along with the option of

DDM Concut's REVOLUTION Series

- Accelerate your cutting speed
- Maximize material removal
- Maintain diamond exposure to extend blade life in tough cutting conditions

The **REVOLUTION** Series is engineered and manufactured in the USA!



7600 SERIES

Director's Dialogue



ERIN O'BRIEN Executive Director

ell friends, here we are in 2023. My sincere hope is this is the year that we can start to think about growth, progress and the future instead of reacting to the past. We started the year strong at World of Concrete in Las Vegas with attendance rebounding positively from the previous two years – and it certainly felt like one of the busiest shows in a long time! We continue with the CSDA Convention & Tech Fair March 27-31 where we will celebrate CSDA's 50th Anniversary in Bermuda. Personally, I am very much looking forward to this annual gathering of longtime CSDA friends, new members and industry leaders. We have some exciting and educational presentations and events planned for all of you who will be there.

Looking forward, I am excited for the IACDS Annual Convention in Venice, May 25-26 and the CSDA 2024 Annual Convention in Hawaii next March! CSDA has also resumed its regular training schedule and will offer our 101 and 201 Operator Certification, sawing and drilling classes and multiple GPR Certification courses this year all over the U.S. and Canada after adding several new instructors to our training staff. We are excited to announce our first ever CSDA New Member Golf Tournament in September following the Fall Board & Committee Meetings on Friday, September 8. New and current members can join representatives from the CSDA Board and committees for a fun and relaxing opportunity to meet and network with other CSDA members. More details on this event will be available soon!

We have also announced our Board & Committee meeting schedule for the rest of the year and hope to see you at one of our Quarterly meetings in 2023. Join us in June in Lexington, KY, September in Spokane, WA or December in Houston, TX. Visit the CSDA website at **csda.org** for dates and more information. If any of our meetings bring us to your area in 2023, I encourage you to join us for a few hours to not only learn what CSDA is doing for you and the industry, but also to see if there is a way for you to get involved! You do not have to attend every meeting to contribute to CSDA and our projects. We want input from each and every member and hope that we see you sometime this year!

WSE1621 Wall Saw

Extremely compact and light components as well as innovative equipment features set new standards in the field of wall saws and make your job easier and more efficient than ever.

- Weighs less than other wall saws 51.8 lbs. with head, 35 lbs. without
- More power water-cooled 20 kW HF motor
- Cut depths up to 28", blade capacity up to 63"
- Bi-Directional blade rotation

.

- · Newly designed, ultra-light and robust, stay-level blade guard
- Compact drive motor and inverter with tool-free quick connection
- Innovative communication color interfaces
- Revolutionary P2® drive technology for extreme reliability without power loss

Generator-Friendly Inverter Setting

Diaond Products Limited 333 Prospect St., Elyria, OH 44035 800-321-5336 - diamondproducts.com



Quick-Release Motor



Compact and Light-Weight Control Unit Remote Control with Color Display



See The Video: 🛄



GETTHE EDGE GOTHE DISTANC

3)

GOLD

SVnauluk

20% FASTER CUTTING SPEED

THE NEW ULTI-GRIT FLAT SAW BLADES

Imagine a flat saw blade with a smoother, faster cut and a longer life. Rip through the toughest concrete with Ulti-Grit - a new series of powerhouse blades, engineered to squeeze every ounce of performance from your flat saw. The Ulti-Grit segment is a completely new design that uses our latest advances in diamond distribution. Go further and faster with exceptional flat saw performance, from the first cut to the last. We've done the hard work - now go the distance. Learn more from your Husqvarna represeneative or visit our website.

20% FASTER CUTTING SPEED (ACCORDING TO INTERNAL TEST VS PREVIOUS F1500 & F900 BLADE SERIES)

BHUSQVarna



www.husqvarnaconstruction.com