

## Concrete Sawing & Drilling Safety Week 2024

From January 29 to February 2, 2024, Ground Penetrating Radar Systems (GPRS) hosted the Concrete Sawing & Drilling Safety Week (CSDSW). Cutting and coring have the potential to create significant risks, such as fall hazards, electrical shock, injuries and lacerations, and silica and dust exposure. With that in mind, GPRS stands as the primary sponsor of CSDSW to increase awareness of concrete safety throughout the construction industry. As a part of the program, throughout the week, GPRS offered the opportunity to have its safety experts come out to jobsites and offices to provide presentations to help companies enhance their safety and ensure that teams are educated on best practices. Topics of discussion included the different types of saw cutting and core drilling that could be present on a site; best practices when choosing the right company to scan, cut, and core concrete; best practices for personal protective equipment and company-provided safety measures; how individuals can mitigate risk when cutting or coring concrete; common risks associated with concrete sawing and drilling; and Occupational Safety and Health Administration (OSHA) standards and best practices for working safely with silica. Moving forward, GPRS encourages companies to take steps to work toward a safer workplace beyond CSDSW by reaching out to their local GPRS safety expert.



GPRS safety experts presenting at a jobsite

## Trackunit Launches Emissions Reporting Software

Trackunit launched software to track carbon dioxide (CO<sub>2</sub>) emissions on individual and fleet equipment to enhance fleet owners' ability to meet CO<sub>2</sub> targets. Emissions Reporting harnesses synthesized machine metadata and individual equipment profiling to unlock comprehensive total fleet emissions reporting for off-highway machines and equipment. The software can be used on machines in the off-highway sector and provides users a display of emissions from all connected equipment, enabling easy tracking and, where necessary, almost instantaneous action to reduce emissions through the value chain. Emissions Reporting also enables

smarter deployment decisions to avoid the underuse of machinery, ensures fleets are in line for tax-saving benefits where local authorities incentivize better tracking, and offers an abundance of brand-building opportunities through data-based validation of sustainability claims.

## Euclid Chemical Opens Plant in Calgary

The Euclid Chemical Company opened a new admixture plant in Calgary, AB, Canada. This facility will enable the company to better serve its customers in the region by providing high-quality admixture solutions to meet their needs. Positioned in a location with access to nearby railways and major transportation routes, this facility will help ensure quick and efficient product delivery throughout the area. The Calgary plant will improve overall service levels by reducing lead times and delivering a better customer experience. The facility is equipped with advanced mixing and batching systems that provide accurate and consistent dosing of admixture ingredients. Euclid Chemical's team of on-site technicians operates the plant and confirms that every batch of admixture meets strict quality standards before being shipped to customers.

## LPA Design Studios Earns NCSEA 2023 Excellence Awards

LPA Design Studios earned two awards in the National Council of Structural Engineers Associations' (NCSEA) 2023 Structural Engineering Excellence (SEE) Awards. The Awards of Excellence were given to the University of California San Diego's York Hall retrofit and the new West Hollywood Aquatic and Recreation Center (ARC).

The York Hall seismic rehabilitation extended the life of a four-building laboratory and educational complex while preserving its architectural character. The 122,000 ft<sup>2</sup> (11,330 m<sup>2</sup>) complex, with its distinctive 300 ft (91 m) column arcade, features 800 precast concrete fins. The team worked with a shipbuilder to replicate the curves of the fan-vaulted concrete columns, which hold a portion of the building aloft and create a passageway underneath.

The West Hollywood ARC established a center for social and recreational activity in West Hollywood. LPA's structural design forms the backbone of a unique, vertically stacked program, which uses structural steel to suspend two rooftop swimming pools above a multi-sport gym without the need for columns. The building's identifying feature, a 70 ft (21 m) grand stair, connects the ARC to West Hollywood Park.

The upper levels of the building cantilever 30 ft (9 m) over the roadway, linking the rooftop pool and tennis courts to the open space of the community park through raised observation and recreation decks.

## Black Buffalo 3D Partners with Innova Homes Limited

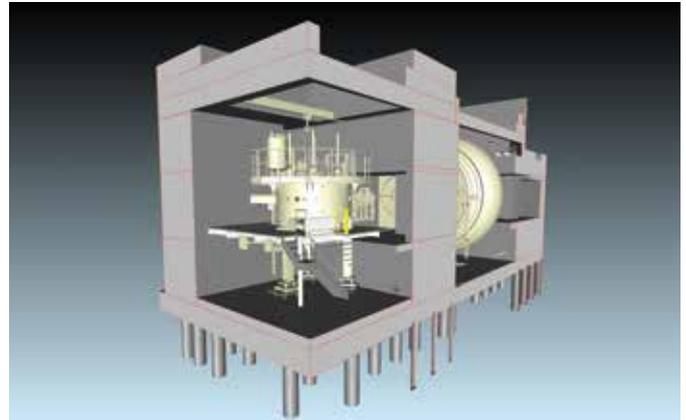
Black Buffalo 3D, a provider of structural three-dimensional (3-D) construction printers and materials, signed a partnership and distribution agreement with Innova Homes Limited, a Trinidad and Tobago Corporation, with the goal of using 3-D construction printers to print high-quality homes and create 3-D construction-based training programs for workers. Innova Build will also act as a local distribution partner and servicing agent for Black Buffalo 3D in the Caribbean and South American regions. Black Buffalo 3D will enhance the company's ability to use robotics, automation, and advanced materials science to create long-lasting homes and buildings. Black Buffalo 3D will work with Team Innova and local officials to increase awareness and complete projects that exceed local building criteria for printing structural 3-D residences and commercial buildings.

## Avanti International Celebrates its 45th Anniversary

Avanti International celebrated its 45th anniversary this past year. Pioneered by David Magill in 1978, Avanti started with just one product—AV-100® Chemical Grout—which was primarily used to seal leaking sewer lines. Today, Avanti's injection grouts include a comprehensive line of acrylamide, acrylics, US Grout Ultrafine™ cement grouts, polyurethanes, epoxies, pump accessories, and more. Since 1978, Avanti has provided injection grouting education by offering a comprehensive range of educational resources, including grout schools, webinars, technical presentations, and on-site training that serves the municipal, industrial, and geotechnical sectors. Avanti's injection grouts have contributed to the success of critical infrastructure projects in diverse environments throughout the United States and across the globe.

## Tarlton Corporation Awarded AGCMO 2023 Project of the Year Award

Tarlton Corporation received the Associated General Contractors of Missouri (AGCMO) 2023 Project of the Year Award in the Specialty Contractor/Subcontractor category for its work on the Proton Therapy Vault Concrete project for POINTCORE Construction. The 5.5 million USD, below-grade vault is attached to the cancer treatment center on the campus of the OSF HealthCare Saint Francis Medical Center in Peoria, IL, USA. The team constructed a 4540 yd<sup>3</sup> (3470 m<sup>3</sup>) concrete vault, inside of which was placed equipment manufactured by Varian Medical Systems, Inc., for noninvasive cancer treatment. Unlike many radiation centers, the OSF proton vault has no lead lining. Precise structural concrete work was required to prevent the escape of any



Model of the proton therapy vault

proton radiation, and the walls were designed to stop and absorb traveling protons. A thermal control plan, critical to the execution of the placement, was developed in conjunction. Temperature sensors were put in each placement to carefully monitor and track temperature differentials.

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