

2022 Excellent and Outstanding ACI University Award Winners

A total of 106 universities around the world received recognition as a 2022 ACI Excellent or Outstanding University Award Winner. The ACI Award for University Student Activities identifies the universities that qualify for excellent or outstanding status based on points received for their participation in select ACI-related activities and programs.

Universities that have earned 12 or more points were recognized with the Excellent University Award, whereas universities that earned 6 to 11 points were recognized with the Outstanding University Award. Fifty-five universities received Excellent status, while 51 received Outstanding status. To view the list of the 2022 winners, visit www.concrete.org/Portals/0/Files/PDF/2022_UnivAwardRecipients.pdf.

The ACI University Award winners received recognition during the Student Awards Program at the ACI Concrete Convention in San Francisco, CA, USA. In addition, each university received a digital and printed banner to display during campus events.

2022 marks the final year of the ACI Award for University Student Activities. The program will be relaunched as the ACI Student Chapter Awards Program and will be open exclusively to ACI's 280+ student chapters around the world.

The revamped program will require student chapters to submit an annual report that will be evaluated by a Task Group to determine which universities meet the minimum requirements to qualify for recognition in the program. Student chapters that do not submit their report will be placed on a probationary improvement plan. The goal of the new program is to help student leaders improve their chapter operations by providing them a system of record keeping that will aid in the onboarding and orientation training for future leaders.

For more information about the ACI University Awards Program, visit www.concrete.org/students/universityaward.aspx.

ACI Introduces New Guide for Shotcrete

ACI, through the work of ACI Committee 506, Shotcreting, has released ACI PRC-506-22, Shotcrete—Guide. The guide provides information on materials and properties of both dry-mix and wet-mix shotcrete and covers most facets of the shotcrete process, including application procedures, equipment requirements, and responsibilities of the shotcrete crew.

As a companion document to ACI SPEC-506.2, Specification for Shotcrete, the guide also discusses preconstruction trials, craftsman qualification tests, materials tests, finished shotcrete acceptance tests, and equipment. The

document is written such that the numbering of all sections between the guide and specification documents are aligned, allowing ACI PRC-506-22 to serve as a nonmandatory commentary on the mandatory specification provisions.

ACI Represented at SFPE Atlanta Chapter Conference

ACI member Eric Kreiger of the U.S. Army Engineer Research and Development Center and member of ACI Committee 564, 3-D Printing with Cementitious Materials, and Steve Szoke, ACI Code Advocacy Engineer, presented information on three-dimensional (3-D) printed concrete buildings and structural concrete reinforced with glass fiber-reinforced polymer reinforcing bars at the Society of Fire Protection Engineers (SFPE) Atlanta Chapter Conference on March 15, 2023. The audience included fire protection engineers, representatives of fire services, and the state fire marshal's office. Several individuals are influential in the development of the State of Georgia amendments to the International Code Council (ICC) International Building Code and the ICC family of model codes. The session was educational and provided outreach regarding ACI and the work of its technical committees while furthering ACI's relationship with the fire protection community.



ACI member Eric Kreiger presenting during the SFPE Atlanta Chapter Conference

Construction Industry Aligns to Fight Brain Injuries and Fatalities

The American Society of Concrete Contractors (ASCC) Education, Research & Development Foundation launched a website dedicated to the construction industry's transformation from Hard Hats to Helmets (H2H). Over the past few years, many companies have made the H2H switch, and the new website is aimed at bringing further awareness to this life-saving topic.

ASCC's Safety & Risk Management Council (SRMC) is a group dedicated to addressing safety performance and reducing job-related hazards, and making sure ASCC contractors are the safest in the industry. The SRMC focuses on the most relevant topics to provide industry leadership, and the H2H initiative was borne out of the desire to reduce the frequency and severity of head injuries in the construction industry.

ASCC developed this website to provide a one-stop shop for information related to features, benefits, and current and

emerging technologies of impact and energy-absorbing construction helmets. Structural Technologies, LLC, an ASCC Sustaining Member company, provided support to build the site.

Peter Emmons, President of Structural Technologies, said, "We are pleased to work with ASCC and other industry partner organizations to support this website which will help get the message out." He went on to add, "and that message is simple—the construction industry can reduce the number of head injuries and fatalities today by saying no to continuing to use 60-year-old hard hat designs and yes to helmets that deliver the best technology available for head protection."

Extensively tested and approved throughout the world, construction helmets, like helmets used for activities such as biking, skiing, and others, provide protection from head injuries due to falls as well as impact and penetration resistance to all areas of the head. H2H, with support from industry organizations and partners, will continue to share a message that will lead to the reduction of traumatic brain

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For more information, visit www.hardhatstohelmets.org.

RMC Research & Education Foundation is now the Concrete Advancement Foundation

The RMC Research & Education Foundation has been renamed as the Concrete Advancement Foundation. The announcement, along with the unveiling of the Foundation's new logo, was made by Foundation Executive Director Julie Garbini at the National Ready Mixed Concrete Association (NRMCA) Board of Directors meeting during NRMCA's annual convention.

The Foundation's Board of Trustees voted to change the organization's name last November to better reflect its body of work which, for decades, has helped to advance sustainability and resilience in the larger concrete construction industry through research and education.

Along with the new name, the Foundation's Board of Trustees also approved a new strategic plan. The vision of the Concrete Advancement Foundation is to be the resilient resource to collaboratively support concrete as the leading sustainable building material. Key goals in the plan reflect the concrete industry's role in achieving the societal aspirations of: 1) decarbonization; 2) resilient, sustainable, and affordable communities; and 3) world-class sustainable infrastructure.

While the Concrete Advancement Foundation will continue to garner and apply resources to a variety of research and education programs to advance the industry and societal goals, the Foundation's signature initiative, the Massachusetts Institute of Technology (MIT) Concrete Sustainability Hub (CSHub) will remain at the core of the Foundation's programming. Garbini underscores that "The concentrated and holistic effort at the MIT CSHub over the last 14 years

has advanced concrete leaps and bounds as the leading sustainable building material. The CSHub's agenda is the inspiration for, and completely aligned with, the Foundation's emphasis on concrete's role in achieving greater societal goals around sustainability and resilience."

The offices of the Concrete Advancement Foundation will remain in Alexandria, VA, USA, co-located with its partner organizations, the NRMCA and the Portland Cement Association (PCA). For more information, visit www.concreteadvancement.org.

Essential Women in Essential Industry—A Year in the Spotlight

A campaign was launched to highlight the essential role women play in the global cement and concrete industry, featuring video testimonials from more than 100 women across the world. The Global Cement and Concrete Association (GCCA), whose member companies operate globally, is running this campaign to help encourage more women to join this key industry in 2023.

For International Women's Day, the GCCA asked women working for its member companies to make short films profiling their work. GCCA received more than 120 videos already by women in a wide variety of roles, such as engineers, sustainability vice presidents, executives, plant workers, human resources managers, drivers, and finance teams.

The videos will be featured on social media and by the GCCA on its website over the next year at <https://gccassociation.org/IWD2023>.

PCA Wins 2023 EPA/DOE Energy Star Partner of the Year Award for 4th Year

The Portland Cement Association (PCA), which represents the majority of America's cement manufacturers, has received the U.S. Environmental Protection Agency's (EPA) and U.S. Department of Energy's (DOE) 2023 Energy Star Partner of the Year Award. It's the fourth consecutive year PCA has been recognized by the federal agencies for demonstrating an outstanding commitment to energy efficiency.

"We're honored to receive this award and appreciate that our industry's efforts to reduce its carbon footprint have been acknowledged by federal regulators these last 4 years," said Mike Ireland, PCA President and CEO.

"For decades, our member companies have invested heavily in research and state-of-the-art technology to develop alternative fuels, lower-carbon cements, as well as different manufacturing processes and products that are better for the environment. But it's clear that the launch of PCA's Roadmap to Carbon Neutrality in 2021 has put us on an innovative path

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that will lead us and our partners in the concrete and construction industries to net zero by 2050, if not sooner,” Ireland said.

Two PCA member companies also won Energy Star Partner awards. CalPortland marks its 19th consecutive win this year, and this is the sixth year in a row that CEMEX USA has received the honor.

EPA Administrator Michael S. Regan said, “As we accelerate historic efforts to address climate change, public-private partnerships will be essential to realizing the scale of our ambition. I applaud this year’s ENERGY STAR award winners for working with EPA to deliver a clean energy future that saves American consumers and businesses money and creates jobs.”

For more than 30 years, EPA’s ENERGY STAR program has supported the transition to a clean energy economy by fostering innovation, jobs, and economic development, while protecting public health. ENERGY STAR certified products, homes, buildings, and plants helped save American families and businesses more than 520 billion kilowatt-hours of electricity and avoid 42 billion USD in energy costs in 2020 alone.

In Remembrance

Vilas S. Mujumdar, FACI, of Reston, VA, USA, passed away March 23, 2023, at the age of 81.

A 50-year member of ACI, Mujumdar served as a Professor of Practice, Iowa State University, Ames, IA, USA. His career included 40 years in the private sector, 10 years in state regulatory work, and 6 years in research management. He has been involved in structural design, project management, university teaching, and research management. His experience included designing and building long-span prestressed concrete bridges, designing cooling towers for the nuclear industry,

and pioneering the use of precast concrete to sustain earthquake loads. He is internationally recognized for his leadership and contributions to integrated, trans-disciplinary work in reducing natural hazard risks. At the National Science Foundation, he managed five engineering research centers. He was a member of the National Academy of Construction, a Distinguished Member of ASCE, and the author of two books. In 2019, the World Federation of Engineering Organizations recognized him with its Medal of Engineering Excellence.

Mujumdar served on numerous ACI committees, including 369, Seismic Repair and Rehabilitation; 374, Performance-Based Seismic Design of

Concrete Buildings; and 435, Deflection of Concrete Building Structures. He was also a member of Joint ACI-ASCE Committee 550, Precast Concrete Structures, and the ACI Foundation’s Concrete Research Council. His substantial donation to the ACI Foundation was discussed in the article “Support of ACI Foundation Research—An Industry Profile” in the January 2023 issue of *Concrete International*.

He received his bachelor’s degree in civil engineering from Vikram University, India; master’s degree in civil engineering from the Indian Institute of Technology; MBA from Santa Clara University; and doctorate in seismic risk from the University of Southern California.

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