



American Concrete Institute
Always advancing

2022 GLOBAL IMPACT REPORT



A photograph of the Chau Chak Wing Museum at night. The building is a modern, multi-level structure with a prominent, large, cantilevered upper floor made of light-colored concrete. The underside of this overhang is illuminated by a series of small, recessed lights. Below the overhang, there is a glass-enclosed entrance area and a lower section with horizontal concrete panels. The building is situated on a grassy hillside, and the sky is a deep blue.

Chau Chak Wing Museum

Sydney, NSW, Australia

1st Place Mid-Rise Category
and Overall Excellence Award Winner



*Charles K. Nmai,
ACI President*

Message from the President

ACI's mission is clear—develop, disseminate, and advance the adoption of consensus-based knowledge on concrete and its uses so that everyone has the knowledge needed to use concrete effectively to meet the demands of a changing world. In 2022, ACI brought its mission to life through the ACI Resource Centers, ACI Centers of Excellence, and many in-person events. ACI's global network of chapters, members, International Partners, and Sponsoring Groups played a critical role in this.

Thanks to the hard work of chapters and Sponsoring Groups that administer certification programs, ACI has now credentialed over 750,000 individuals in the concrete industry. With the opportunities provided by the new Southern California and Chicago/Midwest ACI Resource Centers, we can help meet the increased demand for ACI knowledge through hands-on training, educational offerings, and on-demand access to ACI Certification Programs.

NEU: An ACI Center of Excellence for Carbon Neutral Concrete was announced at the ACI Concrete Convention in Orlando, FL, USA—the first in-person convention in over 2 years. NEU is uniquely positioned to serve as a catalyst to further the acceleration of carbon-neutral concrete in the built environment. In 2023, a third ACI Center of Excellence for Concrete Construction Productivity will be established as well.

Through a collaborative effort, ACI will build upon its leadership as the premier source of concrete knowledge by taking the lead to facilitate the use of qualified technologies for the concrete industry—one of the primary objectives of my presidency. ACI is embarking on a bold new direction, and I'm truly honored to be President of the Institute at this juncture and experience it with you all.

Sincerely,

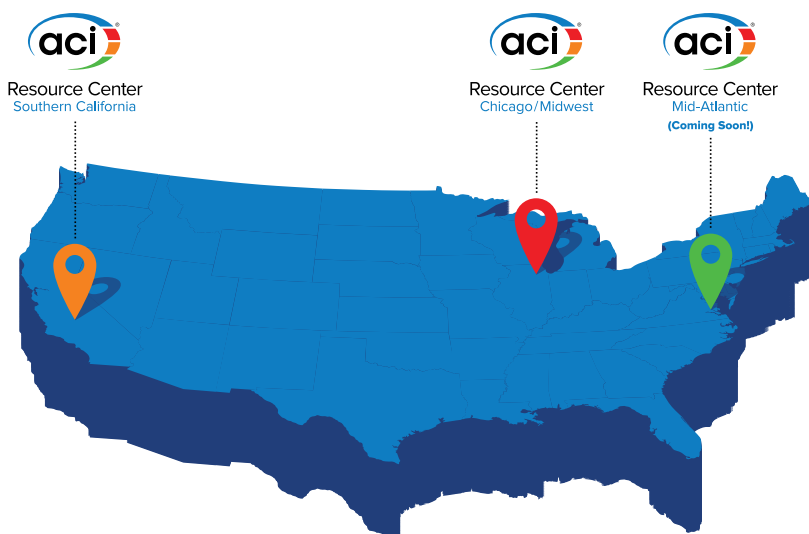
Charles K. Nmai
ACI President

ACI Opens Second Resource Center with a Third on the Way

ACI has opened a second Resource Center, located in the Chicago metropolitan area, to serve not only the Midwest regional concrete industry, but also serve nationally with close access to Chicago O'Hare International Airport. This new ACI Resource Center—Chicago/Midwest—will help meet the increased demand for ACI knowledge through hands-on training, educational offerings, and on-demand access to ACI Certification Programs.

In addition to custom training programs, the new Chicago/Midwest Resource Center offers education programs on popular industry topics such as design, fundamentals, repair, slabs, and more, plus access to all ACI Certification programs.

Collaboration and leveraging the strength of ACI Chapters and Local Sponsoring Groups is critical in ACI Resource Center efforts to support the needs of the concrete industry. The ACI Resource Centers help meet the increasing demand for ACI knowledge and are a great fit for new-hire onboarding, employee education, and customer or member training. All programs are led by instructors with decades of experience in the concrete industry. The Chicago/Midwest Resource Center joins the Southern California location, with a third center serving the Mid-Atlantic region coming in 2023.



ACI Certification



A rapidly increasing amount of building codes, specifications, and agencies are requiring ACI-certified workers on projects. ACI Certification programs help ensure the highest-quality benchmarks are being met on concrete construction projects. ACI has issued more than 725,000 certifications to concrete construction professionals since 1983, with approximately 27,000 certifications issued annually.

ACI 318 PLUS Platform Expands to Include Interactive Case Study

ACI 318 PLUS is a transformative new subscription from ACI that includes full digital interactive access to ACI CODE-318-19, the ACI Detailing Manual, and the numerous design examples in the ACI Reinforced Concrete Design Handbook. ACI 318 PLUS now features an interactive case study where users can follow the design process of a hotel. This case study shows the connection between ACI 318-19 and the structural calculations and drawings of a constructed reinforced concrete hotel. This case study helps designers understand how to satisfy ACI 318-19 using “real-life” examples and is intended for engineers entering the design profession or engineers who are unfamiliar with particular areas of reinforced concrete design.



“*Having the option of using ACI 318 PLUS has been a welcome addition to my daily workflow, especially when working remotely. The ease with which the document can be navigated, the quick links to term definitions and relevant cross references, and the ability to immediately access reference articles is a big improvement. I would definitely recommend ACI 318 PLUS.*”

-Jason A. Thome, PE, SE, MBA

ACI Collection

Specifically developed for individual users, the online subscription to the ACI Collection is the most convenient format, is always up to date, and includes access to every new ACI document as soon as it is published. Additionally, the online subscription includes access to current and historical versions of ACI’s codes and specifications, along with versions in both inch-pound and SI units.

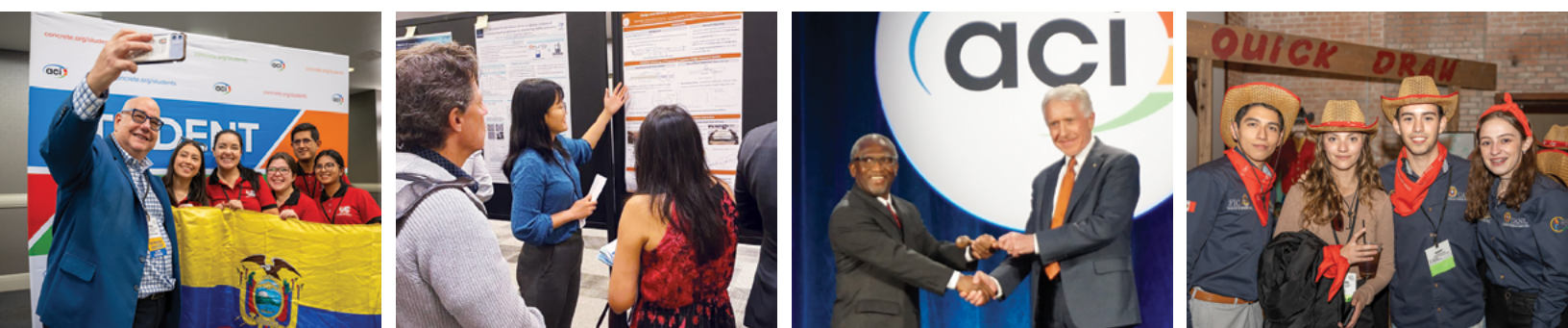
ACI Releases the Highly Anticipated ACI CODE-440.11-22

In 2022, ACI and ACI Committee 440 published its highly anticipated ACI CODE-440.11-22, Building Code Requirements for Structural Concrete Reinforced with Glass Fiber-Reinforced Polymer (GFRP) Bars. Expanding the scope of ACI Code documents, this new Code addresses structural systems, members, and connections, including cast-in-place, precast, nonprestressed, and composite construction.

2022 ACI Concrete Conventions

For the first time in 2 years, the concrete community reunited at the world's gathering place for advancing concrete—the ACI Concrete Convention. The spring convention was held in Orlando, FL, USA, and was attended both in-person and virtually by over 2300 students, concrete professionals, and industry leaders. The spring convention was the first hybrid ACI Concrete Convention, offering both in-person and online attendance options for registrants.

The fall convention was held October 23-27 in Dallas, TX, USA, and was host to a multitude of special events, including the 12th International Workshop on Structural Concrete, the Pervious Concrete Cylinder Competition, and the 8th Annual ACI Excellence in Concrete Construction Awards, where the Chau Chak Wing Museum in Sydney, NSW, Australia, took home the Overall Excellence Award.



ACI Events in 2022

24 Hours of Concrete Knowledge

The second 24 Hours of Concrete Knowledge was held July 12-13. The free virtual conference brought together 24 ACI international chapters and partners to discuss the latest research, trends, and studies coming from the global concrete industry.

ACI Concrete Conference on Innovation

On March 9-10, 2022, ACI and the ACI UAE Chapter hosted the ACI Concrete Conference on Innovation in Dubai, UAE. The 2-day conference was held at The Address Dubai Mall Hotel with over 200 attendees from 12 different countries.

Chapter Leadership Training

ACI's Annual Chapter Leadership Program, held May 23-24, 2022, attracted representatives from 15 different chapters around the world. Attendees were able to learn practical concepts and discover resources to improve chapter management, as well as network with others and learn more about ACI's mission, vision, and goals.

Professors' Workshop

The Professors' Workshop was held July 18-19 and 26-27 with both virtual and in-person registration options. The Professors' Workshop provided instructors in civil engineering, architecture, architectural engineering, materials science, and construction management programs with the latest tools and teaching techniques to effectively engage students.

ACI Code Advocacy

In 2022, ACI Code Advocacy Engineers attended and advocated at numerous seminars, shows, and hearings throughout the United States. Nearly 10 state-level collaboration groups were created to assist in public comment on proposals and provide additional support for the adoption of ACI codes and certifications in their area.

Two ACI standards will be added as references in the 2024 editions of model building codes: ACI CODE-440.11-22, Building Code Requirements for Structural Concrete Reinforced with Glass Fiber-Reinforced Polymer (GFRP) Bars in the International Building Code; and ACI CODE-562-21, Assessment, Repair, and Rehabilitation of Existing Concrete Structures in the International Existing Building Code.

ACI also exhibited at the International Code Council Conference and National Council of Structural Engineers Associations Summit. The goal was to disseminate concrete knowledge to building code officials and design professionals. The knowledge shared with this group may also help make it simpler for states and countries to foster adoption of ACI codes.

Regarding International Code Advocacy, ACI continued efforts in Africa through the Standards Alliance Phase 2, a public-private partnership between USAID and ANSI to enhance National Quality Infrastructure worldwide. In addition, ACI President Charles Nmai has been able to build relationships with several key stakeholder organizations in Africa, such as the Federation of African Engineering Organisations (FAEO), with whom ACI has signed an International Partner Agreement (IPA).

Many countries, such as Argentina, Colombia, Jamaica, the United Arab Emirates, Malaysia, Indonesia, Cambodia, Thailand, Saudi Arabia, Iraq, and others, have expressed interest in updating or adopting other ACI codes. Learn more at concrete.org/advocacy.

Thank you, ACI Members!

The work of the Institute is made possible by ACI members across the globe, and your work is appreciated in keeping the Institute *Always Advancing*. Through continued dedication, you are the reason ACI is a global leader in providing knowledge on concrete materials, design, construction, and repair.

“We have the opportunity to influence the industry with our experience and with our ideas.”
-Arturo Gaytan Covarrubias

“We have a tremendous opportunity for committees to help the work infrastructure simply become better.”
-Roberto Nuñez

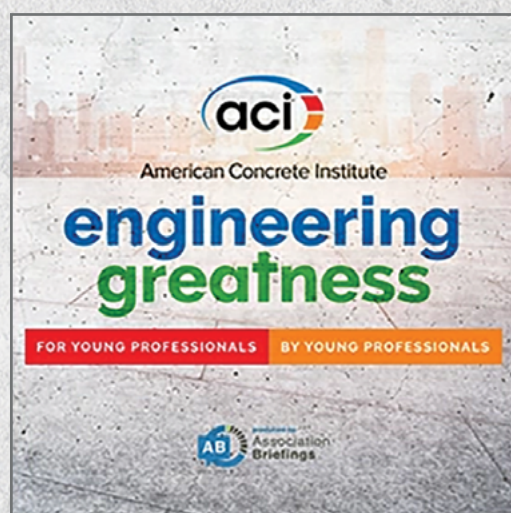
ACI Introduces New Constructability Webinar Series and Corresponding ACI University Certificate



In 2022, the Institute continued with its mission to improve upon challenges facing the industry, with a focus on constructability and efficiency. Through a series of educational programs such as webinars and a certificate program, professionals are now able to advance their knowledge of constructability through ACI's Constructability Series and earn a certificate and digital badge upon successful completion of the ACI Constructability Certificate Program, available in early 2023.

ACI University Certificate Programs

The ACI Certificate Program, delivered through ACI University, encourages concrete professionals to gain in-depth knowledge about particular topics in concrete materials, design, repair, or construction by following a defined online course of study. Once a certificate program has been completed, the participant will receive a certificate from ACI. Available programs include **Fundamentals of Concrete Construction**, **Fundamentals of Concrete and Materials**, **Anchorage Design**, and **Repair Application Procedures**.



ACI Launches Young Professionals Podcast

In 2022, ACI launched the “Engineering Greatness” podcast. Each episode brings together pairs of young professionals in the concrete industry engaging in intimate conversations about their life and work. The podcast offers a glimpse into the fields of civil engineering and construction management and what it takes to have a successful career in the concrete industry. The show is available on all podcast platforms including Apple and Spotify, as well as the ACI YouTube channel. Learn more at aciconcrete.podbean.com.

ACI Foundation

Established in 1989, the ACI Foundation is a wholly owned and operated 501(c)(3) nonprofit subsidiary of ACI that makes strategic investments in ideas, research, and people to build the future of the concrete industry. Through contributions from industry partners and individual supporters, the ACI Foundation awards fellowships and scholarships to high-potential students in concrete-related undergraduate and graduate degree programs; offers research grants to expand the knowledge and sustainability of concrete materials, construction, and structures; and nurtures innovative solutions to advance emerging and mature technologies.

Over the last year, the ACI Foundation has distributed 25 scholarships and fellowships to deserving students, funded 10 new concrete research projects, and invested in initiatives to advance the implementation of new technology.



Help the ACI Foundation build the future by contributing today.

Visit acifoundation.org/giving or scan the QR code.



NEx Expands Global Collaboration on Nonmetallics



With the growing need for sustainable materials and cost-effective solutions, NEx: An ACI Center of Excellence for Nonmetallic Building Materials was established by Founding Members ACI and Aramco Americas in 2021 as a 501(c)(3) nonprofit subsidiary of ACI. It acts as a catalyst for global collaboration to expand and accelerate the use of nonmetallics in the built environment to drive innovation, research, education, awareness, adoption, and deployment. Through contributions from industry partners and member companies, NEx provides funding for projects and initiatives supporting innovation, sustainability, and improved durability for a better future.

Funded Projects

NEx allocates projects in four categories: **Professional Development, Advocacy and Awareness, Standards and Guidelines, and Research and Development.**

YEAR	PROJECTS	NEx FUNDING
2022	12	Over \$575,000
2023 estimate	22	Over \$700,000

Outreach Program

NEx reaches out to many types of organizations to foster collaboration. They include:

- **Universities** to ensure better links between the industry and academia;
- **Industrial partners** to instill global collaboration; and
- **Standards development organizations, trade associations, professional organizations, and specifying agencies** to accelerate the adoption of new materials and technologies.

Membership

NEx has established strong relationships within the industry to support the adoption of nonmetallics across the built environment. NEx membership expanded in 2022 and now includes:



Learn more at nonmetallic.org.



NEU: An ACI Center of Excellence for Carbon Neutral Concrete



NEU: An ACI Center of Excellence for Carbon Neutral Concrete is uniting its members to drive the research, education, awareness, and adoption of carbon-neutral concrete materials and technologies in the built environment. The Center has had an inspiring rise in membership within its first year with Breakthrough Energy and Meta joining as Sustaining Members.

Additionally, Baker Concrete Construction has joined as a Supporting Member. Affiliate Members include Advancing Organizational Excellence (AOE), ACI Foundation, Atlantis Holdings Ltd., d.b.a. AtlantisFiber™, Ash Grove Cement/CRH, ceEntek, StoneCoat Global, Ozinga, CarbonBuilt, and Lehigh Hanson. ACI is a Founding Member.

NEU will also be working closely with allied organizations within the concrete construction industry. Memorandums of Understanding have been signed with the International Code Council Evaluation Service, Federación Interamericana del Cemento (FICEM), ASTM International, and the National Ready Mixed Concrete Association (NRMCA).

To learn more about NEU, or to get involved, visit neuconcrete.org.

“*Technology transfer ranging from the repackaging of existing ACI information for immediate use to developing a model code for sustainable concrete will be at the forefront, along with the validation of new technologies to achieve carbon neutrality in concrete construction.*”
-Andrea Schokker, NEU Senior Technical Consultant

Advancing Organizational Excellence



With roots dating back to 1990, Advancing Organizational Excellence (AOE), an ACI subsidiary, provides full-service association management expertise and service offerings ranging from business and operational, to marketing and technical expertise.

AOE is the leading concrete and building industry resource for management, marketing, and other consulting needs. The team offers the industry unique expertise through the following practice groups: Sustainability, Crisis Communications, Public Relations, and Social Media, as well as Diversity, Equity, and Inclusion.

AOE differs from other consulting firms not only in its mission to serve the unique needs of the concrete and building industry, but also for its commitment to invest all profits back in the industries it serves. This impact can be seen in the form of scholarships, fellowships, and training, to sponsoring your events and activities—paving the way for your future leaders—and ensuring you have the funding to reach your members and target clients. In the last 5 years alone, AOE has reinvested more than \$500,000 in the design and construction industry. Learn more at aoeteam.com.



American Concrete Institute
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Always advancing – The American Concrete Institute is a leading global authority for the development, dissemination, and adoption of its consensus-based standards; technical resources; and educational, training, and certification programs. Founded in 1904, ACI is headquartered in Farmington Hills, MI, USA, with a regional office in Dubai, UAE, and Resource Centers in Southern California and Chicago/Midwest. ACI has over 93 chapters, 279 student chapters, and 30,000 members spanning over 120 countries.

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