

ACI Announces Record Registration for 24 Hours of Concrete Knowledge

ACI had a record of more than 1900 registrants for its global event, 24 Hours of Concrete Knowledge. Now in its fifth year, this free, virtual conference brought together experts, professionals, and students worldwide for 24 continuous hours of learning, collaboration, and innovation. Each event-hour provided presentations from a different global region, covering ACI chapters and allied organizations in more than 20 countries. This event attracted participants from 67 countries around the world.

“Participation in the 24 Hours of Concrete Knowledge was at a record level this year, demonstrating the interest in accessing the latest knowledge available in the industry,” said Frederick H. Grubbe, ACI Executive Vice President. “With the presentations crossing multiple time zones throughout the 24 hours, attendance stayed strong throughout, which was another record, and indicated the importance members place on the availability of the information.”

This year, the presentations showcased innovations in concrete materials, structural systems, and construction technologies, reflecting a global shift toward sustainability and digital integration. A major theme was the reduction of carbon emissions, with several speakers highlighting the challenges in sourcing traditional supplementary cementitious materials (SCMs) such as fly ash and slag cement, and proposing more locally abundant alternatives, including limestone calcined clay cement (LC³) and glass powder. Advanced technologies, like three-dimensional (3-D) printing, artificial intelligence (AI) for crack detection, building information modeling (BIM), and automated modeling, were also featured, illustrating their growing role in design and construction.

Many ACI chapters presented case studies on new construction methods, including top-down construction techniques and accelerated, low-carbon building practices. Structural rehabilitation emerged as another key topic, with

examples ranging from earthquake-damaged buildings to bridge repair, emphasizing sensing technologies and durability-based strategies. Several presenters also highlighted the importance of using ACI resources or their own national bulletins, specifications, and guidelines to inform practice and facilitate local implementation.

Hosted in cooperation with more than 20 ACI international chapters and allied organizations across multiple time zones, 24 Hours of Concrete Knowledge provides a platform for the global concrete community to exchange knowledge on the latest advancements, research, and trends in concrete technology and construction.

24 Hours of Concrete Knowledge was sponsored and supported by Baker Construction, Don Construction Products (DCP) Inc., MAPEI, PS=Ø, and Wiss, Janney, Elstner Associates, Inc.

For more information, visit www.concrete.org/newsandevents/24hoursofconcreteknowledge.aspx.

Participants of the 2025 24 Hours of Concrete Knowledge ACI Chapters

Central & Southern Mexico, Egypt, Guatemala, India, Iraq, Italy, Kurdistan, Lebanon, Peru, Republic of Colombia, Singapore, and UAE.

Allied Organizations

Asociación Latinoamericana de Control de Calidad, Patología y Recuperación de la Construcción (ALCONPAT) Internacional; Concrete Institute of Australia (CIA); Fédération internationale du béton (*fib*); Fundación Instituto Salvadoreño del Cemento y Concreto (ISCYC); The Institute of Concrete Technology (ICT); Instituto Brasileiro do Concreto (IBRACON); Instituto del Cemento y del Concreto de Guatemala (ICCG); International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM); Japan Concrete Institute (JCI); Jordan Concrete Association (JCA); Korea Concrete Institute (KCI); Concrete NZ Learned Society; and Thailand Concrete Association (TCA).

ACI Delegation Visits Japan for JCI 60th Anniversary and Joint Technical Sessions

ACI President Maria Juenger led a delegation in Japan from July 12-17, 2025, marking a significant milestone in international concrete research collaboration. The delegation included ACI members Andrew Foden and Garrett Hagen;

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Participants of the 7th JCI-ACI Joint Session

Andrew Taylor, FACI; Keith Kesner, FACI; Matthew Adams, FACI; Michael Brown, FACI; Bernie Pekor, ACI Director of International Affairs; and Zhu Liu, ACI Regional Manager for East Asia International Affairs.

JCI 60th Anniversary Celebration

The visit commenced with the Japan Concrete Institute's (JCI) 60th anniversary celebration on July 12 at Bellesalle Hanzomon, Tokyo. President Juenger delivered congratulatory remarks alongside distinguished speakers, including Professor Koichi Maekawa, JCI President; Professor Caijun Shi, FACI, Asian Concrete Federation (ACF) President; Professor Geon Ho Hong, Korea Concrete Institute (KCI) President; and Milton King, Taiwan Concrete Institute (TCI) President.

Regional Collaboration Summit

A strategic roundtable meeting convened on July 13 at Hotel Grand Arc Hanzomon in Tokyo, bringing together leadership from ACI, ACF, JCI, KCI, and TCI to discuss shared interests and future collaborative opportunities. The session focused on strengthening regional partnerships and advancing concrete technology research across Asia-Pacific markets.

7th JCI-ACI Joint Technical Session

The cornerstone of the visit was the 7th JCI-ACI Joint Session, held July 16-17 in Morioka as part of the JCI Convention. This biennial exchange, which began in Hawaii, USA, in 2012, featured 16 research presentations—eight from each institute—covering cutting-edge developments in



ACF President Caijun Shi (left) presenting a gift of appreciation to ACI President Maria Juenger at the roundtable meeting

concrete technology.

A highlight of the technical program was the collaborative research presentation, "Harmonizing Performance-Based Seismic Design: A Comparative Study of US and Japanese Practices for a 10-Story RC Archetype." This joint investigation demonstrates both institutes' ongoing commitment to addressing critical infrastructure challenges through international cooperation.

The alternating venue format between the United States and Japan continues to foster technical exchange and strengthen the longstanding partnership between these leading concrete research organizations. The next joint session will be held at a future ACI Concrete Convention.