

ACI Adopts New Position Statement on Engineering Curricula

ACI recently approved a new position statement on civil/architectural/structural engineering curricula. The Institute now has a total of 13 position statements on various topics supporting policy positions along with state, federal, and international programs, rules, and regulations.

The new position statement includes:

Civil/Architectural/Structural Engineering Curricula: Encourage colleges and universities with civil, architectural, or structural engineering curricula to retain or include material and structural courses on design and code compliance in accordance with recognized consensus-based standards developed by accredited standards development organizations.

The Institute's position statements are focused on advocacy efforts related to code development and adoption; and future statements may focus on other ACI programs, services, and activities. The process of creating ACI position statements was created by the ACI Board of Direction to better allow ACI to actively engage in advocating for ACI code adoption.

To learn more and view all position statements, visit www.concrete.org/positions.

ACI Slabs Week Coming to ACI Resource Center – Southern California

The ACI Resource Center – Southern California will host the inaugural ACI Slabs Week at its San Bernardino, CA, USA, location April 26-29, 2022. The week will include educational seminars, certification review sessions, and exams, and an opportunity to receive the ACI Specialty Commercial/Industrial Flatwork Finisher and Technician certification.

The first 2 days of ACI Slabs Week will focus on educational seminars led by subject-matter experts from around the country. The first seminar, Design of Concrete Slabs-on-Ground, will be led by Scott Tarr, President of North S.Tarr Concrete Consulting, and James Loper, Structural Engineer and Operations Manager at Jacobs Engineering. Wednesday's seminar, Construction of Concrete Slabs-on-Ground, will be led by Amir Bonakdar, Business Development Manager at The Euclid Chemical Company, and Kim Basham, FACI, President and Senior Structural Engineer at KB Engineering. Engineers, designers, and contractors can expect to interact with experienced and knowledgeable peers and earn CEUs.

On Wednesday, April 27, finishers and contractors can attend certification review sessions for the ACI Specialty Commercial/Industrial Flatwork Finisher and Technician, Concrete Flatwork Finisher, and Decorative Concrete Flatwork Finisher certification programs. Exams for both the Concrete Flatwork Finisher and Decorative Concrete Flatwork

Finisher will take place immediately following review sessions. Programming will conclude on Friday with the performance exam for the ACI Specialty Commercial/Industrial Flatwork Finisher and Technician certification.

For more information and to register, visit www.concrete.org/slabsweek.

2021 Winner of the ACI-James Instruments Student Award for Research on NDT of Concrete



Sajid

Sikandar Sajid, PhD Candidate from McGill University in Montreal, QC, Canada, is the winner of the 2021 ACI-James Instruments Student Award for Research on Nondestructive Testing of Concrete. The competition is sponsored by James Instruments Inc., a Chicago, IL, USA-based manufacturer and distributor of nondestructive testing (NDT) systems, and administered by ACI Committee 228,

Nondestructive Testing of Concrete.

Sajid received a \$1500 cash prize for his research paper titled "Improved Defect Detection with Impulse-response Test" and was invited to present the findings to ACI Committee 228 and at the Research in Progress session held during the ACI Concrete Convention on March 27-31, 2022, in Orlando, FL, USA.

The purpose of this competition is to stimulate student interest in the area of NDT; to recognize meritorious and innovative research in concrete and concrete materials using NDT methods; to publicize the field of NDT and the work of the committee; and to recognize the support given by the sponsor to students working on NDT research.

The call for papers for the next competition will be published in the fall. To learn more about ACI student competitions, visit www.concrete.org/students/studentcompetitions.

ICC, with Sponsorship from ASHRAE, Creates a New International Green Construction Code Certification

The International Code Council (ICC), with sponsorship from the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), a global heating, ventilation, air-conditioning, and refrigeration (HVAC&R) membership society, announced the release of a new International Green Construction Code (IgCC) certification, Commercial Green Construction Professional. The Commercial Green Construction Professional certification was created to assist in developing new standards for building

construction to address the problem of greenhouse gas emissions and help reinforce societal health, life, and safety benefits. Professionals who receive this certification will lead the way in helping to conserve resources and regenerate sites while providing expertise in offering solutions to resilience through natural disasters, a changing climate, resource consumption/management, and service interruptions due to unforeseen events.

“As the focus to reduce greenhouse gas emissions and increase energy efficiency within our communities continues to grow, the demand for green building design, construction, and operational techniques has become essential,” said Cindy Davis, CBO, President of the ICC Board of Directors. “A certified Commercial Green Construction Professional will play an important role as an industry leader in helping communities establish sustainable, resilient, high-performance buildings.”

The certified Commercial Green Construction Professional certification verifies competence in plan review and project inspection performance for commercial buildings as it pertains to the IgCC, in coordination with ASHRAE Standard 189.1. Standard 189.1 provides guidance for designing, building, and operating high-performance green buildings and sets the foundation for total building sustainability through site sustainability, water and energy efficiency, indoor environmental quality, and the building’s impact on the atmosphere, materials, and resources.

To learn more, visit www.iccsafe.org/professional-development/assessment-center.

SCA Celebrates its 20th Anniversary

The Slag Cement Association (SCA) announced it is celebrating its 20th

anniversary this year. SCA serves as a leading source of knowledge for slag cement and slag blended cements through promotion, education, and technology development. SCA communicates the performance and environmental benefits of these cementitious materials through the support and participation of its member companies.

“SCA is proud of what it has accomplished in its 20 years of service. Slag cement offers many benefits when used in concrete construction, such as durability, sustainability, improved finishability, and much more. SCA provides many resources exemplifying these benefits and are free to the industry, such as technical information

sheets, webinars and videos, life-cycle assessment calculator, Environmental Product Declaration for slag cement,



SCA Past President Ed Griffith gavel exchange with SCA President Lori Tiefenthaler

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and the Slag Cement in Sustainable Concrete Awards Program,” said Drew Burns, SCA Executive Director.

Another milestone for SCA this year is the passing of the gavel for the SCA Board President. Ed Griffith, St Marys Cement, finished his term at the end of last year, and Lori Tiefenthaler, Lehigh Hanson, has stepped into the role.

In recognition of its 20th anniversary, SCA will be hosting its first Slag Cement School event at the ACI World Headquarters, May 11-12, 2022. The event will include educational presentations on slag cement use in concrete construction, sustainable resources available, and other presentations on the benefits of use. Members will demonstrate how to use SCA’s newly updated life-cycle assessment calculator for slag cement.

For more information, visit www.slacement.org.

Lehigh, UCLA Help ASCE Curate a “Life-Cycle Engineering Reader” in Bridge Asset Management

To help bridge engineers develop a framework for asset management and prioritization of bridge maintenance projects, the American Society of Civil Engineers (ASCE) recently turned to two recognized leaders in structural engineering research: Dan M. Frangopol, FACI, Professor, Lehigh University, and Sriram Narasimhan, Professor, University of California, Los Angeles. Frangopol and Narasimhan have curated ASCE’s “Bridge Asset Management Collection,” a series of research papers selected to assist all stakeholders, including state Departments of Transportation, in asset management and prioritization of bridge maintenance projects to maximize the use of funding.

“Across the study and practice of infrastructure engineering, this injection of federal funding into surface transportation and bridges is seen as absolutely essential,” said Frangopol. “For the engineers responsible for translating that funding into action and results, it is an incredibly

important moment to consider the entire life cycle of these assets and to manage them accordingly.”

The collection, available at www.asce.org, contains research published in ASCE research journals and book chapters, including: “Network-level Risk-based Framework for Optimal Bridge Adaptation Management Considering Scour” and “Climate Change and Integrating the Risk of Climate Change into Transportation Asset Management to Support Bridge Network-Level Decision-Making,” *Journal of Infrastructure Systems*; “Bridge Load Testing: State-of-the-Practice,” *Journal of Bridge Engineering*; “Determining Target Reliability Index of Structures based on Cost Optimization and Acceptance Criteria for Fatality” and “Investigation of the Effects of Time Preference and Risk Perception on Life-cycle Management of Civil Infrastructure,” *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*; “A Decision-Making Framework for Load Rating Planning of Aging Bridges Using Deep Reinforcement Learning,” *Journal of Computing in Civil Engineering*; “Condition-Based Multiobjective Maintenance Decision Making for Highway Bridges Considering Risk Perceptions,” *Journal of Structural Engineering*; “I-78 Bridge over Schuylkill River, Industrial Drive, and RBMN Railroad, Hamburg, PA: Bridge Replacement vs. Rehabilitation of Approach Spans,” *Structures Congress 2020*; and “Life-Cycle Performance of Infrastructure Networks, Chapter 3” from *Life-Cycle Design, Assessment, and Maintenance of Structures and Infrastructure Systems*.

World of Concrete 2022 Wrapped a Highly Productive and Well-Attended Event

World of Concrete (WOC), Informa Markets’ exhibition, concluded the 47th annual event held January 17-20, 2022, at the Las Vegas Convention Center, in Las Vegas, NV, USA, with close to 37,000 registered professionals. WOC hosted over 1100 suppliers in the expo hall, just over 150 of which were first-time exhibitors, offering attendees a wide range of brands to explore.

In addition, registrants had the opportunity to participate in WOC educational programs. With more than 11,000 expert-led sessions, this year’s education explored a balance of technical and forward-looking topics, ranging from three-dimensional (3-D) printing in concrete construction, women in construction, waterproofing: the next generation of solutions, and much more.

Trends from the 2022 event included, but are not limited to:

- Greater jobsite productivity, with new battery systems that deliver more power to the hand tools used to perform demanding concrete tasks, such as drilling, cutting, and demolition;

Errata for ACI Publications Available Online

Under the menu for “Publications” at www.concrete.org, document errata can be searched by document number or keywords.

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- Introduction of equipment that is automating concrete construction activities, including 3-D printing, reinforcing bar tying, and drilling overhead holes;
- Entrance of new materials that increase contractor productivity while still ensuring durable repairs;
- Streamlined management data management systems that enable contractors to tighten a project's critical path; and
- Product and equipment updates that reduce a project's carbon footprint and increase contractor productivity.

Returning for the 17th consecutive year, The Concrete Industry Management (CIM) program held its silent and live Auctions, generating a record of over \$1,740,000. Donations originated from the live auction and online contributions, marking a historic moment in the program's history at WOC that is designed to give students entering the concrete workforce industry experience early in their careers. CIM is a business program developed specifically for the concrete industry to provide students with a 4-year BS degree in concrete industry management.

The 2022 edition of the SPEC MIX BRICKLAYER 500® World Championship crowned Mason Cole Stamper as the "World's Best Bricklayer," along with his mason tender, Jeff Becker. The two took home top honors, in addition to a new Ford F250 4x4 truck and more than \$10,000 in cash and prizes. Scott Tuttle and mason tender Brian Tuttle locked in the second most coveted award at the event, the SPEC MIX TOP CRAFTSMAN, laying 730 bricks in 1 hour. Their effort won the Tuttles a new Kubota RTV-X1140, plus more than \$10,000 in cash and prizes.

New this year and central to WOC's core values, the exhibition organizers formalized the event's commitment to sustainability in collaboration with

renewable energy partner/sponsor HILTI. The program was executed with three objectives: Inspiring Sustainable Development, Environmental

Responsibility, and Social Responsibility—each pledge supporting the event's commitment to shaping the concrete industry for a sustainable future.

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