

**ACI Spring 2021 | Virtual**  
**ACI Virtual Concrete Convention**  
Sunday, March 28<sup>th</sup> – Thursday, April 1, 2021  
**Session & Events Schedule**

**Sunday, March 28, 2021**

**9:00 am – 10:15 am** – Opening Session and Keynote Presentation

**10:00 am – 12:00 pm** – **Sessions**

- Adjusting Workability for Successful 3-D Concrete Printing, Part 1 of 2
- UHPC – Innovations in Practical Applications

**10:30 am – 12:00 pm** – ACI International Forum

**12:00 pm – 1:00 pm** – International Lunch and Learn

**1:00 pm – 3:00 pm** – **Sessions**

- Adjusting Workability for Successful 3-D Concrete Printing, Part 2 of 2
- Form Pressure Exerted by Self-Consolidating Concrete
- International Session: Overview of Major Concrete Construction Projects and Technologies in the Middle East

**2:00 pm – 3:00 pm** – **Mini Session**

- MINI SESSION: High Strength Concrete in Non-Traditional Markets – The Perspective of Producers and Consultants

**4:00 pm – 6:00 pm** – **Session**

- Microbially Induced Corrosion of Concrete

**5:00 pm – 7:30 pm** – **Mini Session**

- MINI SESSION: Performance-Based Wind Design: Latest Design and Research Developments

**7:00 pm – 8:00 pm** - Student Networking Event

**Monday, March 29, 2021**

**10:00 am – 11:00 am** – **Mini Session**

- MINI SESSION: Don't Hit a (Concrete) Wall - Design One Instead!

**10:00 am – 12:00 pm** – **Sessions**

- Recent Developments in High Strain Rate Mechanics and Impact Behavior of Concrete, Part 1 of 2
- Research in Progress, Part 1 of 2
- Undergraduate Research Session

**11:00 am – 1:30 pm** – **Session**

- Legal Issues in Concrete Construction – Lessons Learned

**12:00 pm – 1:00 pm – Student Lunch and Learn**

**1:00 pm – 3:00 pm – Sessions**

- Best Practices and Lessons Learned for Teaching Concrete Materials and Reinforced Concrete, Part 1 of 2
- Exploiting SSI Effects in Structural Design of Bridges
- Recent Developments in High Strain Rate Mechanics and Impact Behavior of Concrete, Part 2 of 2

**4:00 pm – 6:00 pm – Sessions**

- Best Practices and Lessons Learned for Teaching Concrete Materials and Reinforced Concrete, Part 2 of 2
- How to Get Modern Concrete Pumped to the Right Floor
- The Concrete Industry in the Era of Artificial Intelligence

**6:00 pm – 7:00 pm – Women in ACI Reception**

**Tuesday, March 30, 2021**

**10:00 am – 12:00 pm – Sessions**

- Architects' Day Session: Achieving Excellence in Concrete Construction – Following The REACH from Concept to Completion
- Research in Progress, Part 2 of 2
- The Future of Coal Combustion Products in Concrete, Part 1 of 2

**11:00 am – 1:30 pm – Session**

- Productivity in the Concrete Industry: Why Has it Stagnated and How Can ACI Help?

**12:00 pm – 1:00 pm – Mini Session**

- MINI SESSION: Canadian ICF Wall Prescriptive Structural Design for Houses

**12:00 pm – 1:00 pm – Architects' Day Lunch and Learn**

**1:00 pm – 3:00 pm – Sessions**

- ACI 123 Student Poster Session, Part 1 of 2
- Architects' Day Session: Teamwork Makes the Dream Work
- The Future of Coal Combustion Products in Concrete, Part 2 of 2

**2:00 pm – 3:00 pm – Mini Session**

- MINI SESSION: Recent Developments on Alkali Carbonate Reaction

**3:00 pm – 4:00 pm – Mini Session**

- MINI SESSION: FRC Flexural Test: Comparing Notched Versus Un-Notched Beams

**4:00 pm – 6:00 pm – Sessions**

- 123 Forum: Can Alkali-activated Materials Compete with Portland Cement?
- ACI 123 Student Poster Session, Part 2 of 2

- Assessment and Surface Preparation of Concrete Surfaces for Protective Systems

**6:00 pm – 6:45 pm – Concrete Mixer**

**6:00 pm – 7:00 pm – *Mini Session***

- MINI SESSION: Constructability: Hot Topics, Recent Developments & Case Studies

### Wednesday, March 31, 2021

**10:00 am – 11:00 am – *Session***

- Using ACI 318 PLUS as a Teaching Tool

**10:00 am – 12:00 pm – *Sessions***

- Fusion of Visual and Nondestructive Techniques for Bridge Evaluation
- Open Topic Session, Part 1 of 2
- Performance of Slag Cement with Portland-limestone Cement in Concrete

**1:00 pm – 3:00 pm – *Sessions***

- Open Topic Session, Part 2 of 2
- Raw Natural Pozzolans in Concrete
- Smart Concrete, New Functionalities, and Nanotechnology, Part 1 of 2

**5:00 pm – 6:00 pm – President's Reception and Awards Presentation**

**4:00 pm – 6:00 pm – *Sessions***

- Integration of Innovative Techniques and Approaches for Optimum Concrete Structure Rehabilitation
- Rethinking Reinforcement for 3-D Printed Cementitious Composites, Part 1 of 2
- Smart Concrete, New Functionalities, and Nanotechnology, Part 2 of 2

### Thursday, April 1, 2021

**10:00 am – 12:00 pm – *Sessions***

- Concrete Pavement Design and Construction Special Session Honoring Dr. Shiraz Tayabji, Part 1 of 2
- Impact of Hot Weather Conditions on Concrete Repairs, Part 1 of 2
- Rethinking Reinforcement for 3-D Printed Cementitious Composites, Part 2 of 2

**1:00 pm – 3:00 pm – *Sessions***

- Concrete Pavement Design and Construction Special Session Honoring Dr. Shiraz Tayabji, Part 2 of 2
- Impact of Hot Weather Conditions on Concrete Repairs, Part 2 of 2
- Unlocking Workability Issues of UHPC, Part 1 of 2

**4:00 pm – 6:00 pm – *Sessions***

- Constructability and Shotcrete Construction in the Windy City

- Is SCC Consolidation-Free?
- Unlocking Workability Issues of UHPC, Part 2 of 2