ACI Spring 2021 | Virtual
ACI Virtual Concrete Convention
Sunday, March 28th – 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 Verse 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