

ACI Fall 2020 | Virtual

ACI Virtual Concrete Convention

Sunday, October 25 – Thursday, October 29, 2020

Session & Events Schedule

Saturday, October 24, 2020

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

Sunday, October 25, 2020

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

10:00 am – 12:00 pm - *Sessions*

1. International Session: Sustainable Solutions: A Key Element on our New Concrete Structures
2. Research in Progress, Part 1 of 2
3. Effects of Internal Curing Using Pre-Wetted Lightweight Aggregates on Durability and Service Life of Reinforced Concrete Structures

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

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

1:00 pm – 2:30 pm – *Mini Session*

1. MINI SESSION: Design of Structural Concrete Slabs for Safety Against Punching and Excessive Deflection, Part 1 of 2

1:00 pm – 3:00 pm - *Sessions*

1. So You Think You Can Print? Challenges to 3-D Printing from Design to Permitting

1:00 pm – 5:30 pm – Concrete Solutions Competition

2:00 pm – 4:00 pm – *Mini Session*

1. MINI SESSION: Concrete-Filled FRP Tubes (CFFT) Technology

4:00 pm – 5:00 pm – *Mini Session*

1. MINI SESSION: Steel-Concrete Composite Provisions in the AISC Specification

4:00 pm – 6:00 pm - *Sessions*

1. SDC Innovations in Concrete: Sustainability, Constructability, and “Cost-ability” – The New Three-legged Stool?

2. The Intersection of Bond, Development Length, and Anchorage
3. Design of Structural Concrete Slabs for Safety Against Punching and Excessive Deflection, Part 2 of 2

5:00 pm – 6:00 pm – *Mini Session*

1. MINI SESSION: Emerging Connections for Accelerated Bridge Construction (ABC)

5:30 pm – 6:30 pm – *Mini Session*

1. MINI SESSION: Challenges in Measuring and Estimating Modulus of Elasticity in High Strength

7:30 pm – 8:30 pm – *Mini Session*

1. MINI SESSION: Undergraduate Research

Monday, October 26, 2020

10:00 am – 12:00 pm – *Sessions*

1. Sessions Honoring Calvin McCall, Part 1 of 2
2. Research in Progress, Part 2 of 2
3. Use of Slag Cement in Concrete Construction

11:00 am – 12:00 pm – *Mini Session*

1. MINI SESSION: Concrete on the Farm, 1900-1930

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

1:00 pm – 2:00 pm – *Mini Session*

1. MINI SESSION: Shear Behavior of UHPC Bridge Girders

1:00 pm – 3:00 pm - *Sessions*

1. Sessions Honoring Calvin McCall, Part 2 of 2
2. Constructability: Workability of Concrete Carolina Style
3. What I Wish I Knew: A Guide to Successful Mentorships

3:00pm – 5:00 pm – Young Professional Meeting and Networking Event

4:00 pm – 5:30 pm – *Mini Session*

1. MINI SESSION: Recent Advances in Concrete and Masonry Wall System Thermal Performance, Whole Building Modeling and Product Innovations

5:00 pm – 6:00 pm – Women in ACI Reception

6:00 pm – 7:30 pm – ACI Excellence in Concrete Constructions Awards Program

Tuesday, October 27, 2020

9:00 am – 10:00 pm – Session

1. Architects' Day Session: Shotcreting Architectural Concrete

10:00 am – 12:00 pm – Sessions

1. Architects' Day Session: Specifying, Planning and Executing Architectural Concrete
2. Excellence Awards – Project Presentation
3. How Resiliency Impacts Concrete Design

11:30 am – 12:30 pm – Mini Session

1. MINI SESSION: Advantages Built in with ICF/Concrete Walls

12:00 pm – 1:00 pm – ACI Student Forum

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

1:00 pm – 3:00 pm – Sessions

1. Architects' Day Session: Panel Discussion on Constructability
2. Technologies to Reduce Shrinkage and Cracking, Part 1 of 2
3. Field Applications of Non-Conventional Reinforcing and Strengthening Methods for Bridges and Structures, Part 1 of 3

3:30 pm – 4:30 pm – Mini Session

1. MINI SESSION: Inspection of Concrete

4:00 pm – 6:00 pm – Sessions

1. Concrete with Recycled Materials
2. Technologies to Reduce Shrinkage and Cracking, Part 2 of 2
3. Recent Research into the Design, Analysis and Testing of FRP Reinforced Columns

5:00 pm – 6:00 pm – Mini Session

1. MINI SESSION: Recent Advances in Modeling Corrosion Propagation in Reinforced Concrete

6:00 pm – 6:45 pm – Concrete Mixer

6:00 pm – 7:00 pm – Mini Session

1. MINI SESSION: Constructability Barriers Encountered and Solutions Developed to Overcome these Barriers

Wednesday, October 28, 2020

10:00 am – 12:00 pm – Sessions

1. Field Applications of Non-Conventional Reinforcing and Strengthening Methods for Bridges and Structures, Part 2 of 3
2. Open Topic Session
3. Industry Experience on Unusual Reinforcing Steel Corrosion, Part 1 of 2

1:00 pm – 3:00 pm – Sessions

1. Field Applications of Non-Conventional Reinforcing and Strengthening Methods for Bridges and Structures, Part 3 of 3
2. Recent Advances in Understanding Mechanisms of Mass Transport in Concrete
3. 123 Forum: Concrete Sustainability: Integrating Structures and Materials

4:00 pm – 6:00 pm – Sessions

1. Updated Committee Report on Concrete Overlays
2. Industry Experience on Unusual Reinforcing Steel Corrosion, Part 2 of 2
3. Why Nanofibers in Concrete?

5:00 pm – 5:45 pm – President's Reception

Thursday, October 29, 2020

10:00 am – 12:00 pm – Sessions

1. State-of-the-Art Evaluation of Signature Concrete Bridges
2. Examples for the Design of Reinforced and Prestressed Concrete Members Under Torsion, Part 1 of 2
3. ACI 123 Student Poster Session, Part 1 of 2

1:00 pm – 3:00 pm – Sessions

1. Benchmarking of Codes, Specifications, and Models for Service Life
2. Issues and Potential Solutions for Achieving Uniform Dispersion of Nanoparticles in Cementitious Composites and Concrete for the Laboratory and Field
3. Examples for the Design of Reinforced and Prestressed Concrete Members Under Torsion, Part 2 of 2

4:00 pm – 6:00 pm – Sessions

1. ACI 123 Student Poster Session, Part 2 of 2