

# ACI COMMITTEE 239: ULTRA-HIGH PERFORMANCE CONCRETE

2020 ACI Fall Convention

Monday, October 26, 2020 6:30 pm – 9:00 pm

## MEETING AGENDA

1. Welcome and Attendee Introductions
2. Approval of Agenda
3. Approval of March 2020 meeting minutes
4. TAC Report – Anton Schindler
5. Membership update – Kennan Crane
6. Upcoming symposia and conferences
  - a. BEI *International Symposium on UHPC and Emerging Concrete (BEI-UHPC)*, Singapore, July 19-22, 2021
7. CRC Research Proposal Vetting – John Myers
  - a. CRC Research Proposals – [5 minutes presentations plus 3 minutes for Q&A]
    - Mohamed Moustafa - Transverse Reinforcement Requirements for UHPC columns: Assessment of Existing ACI Provisions and New Developments
    - Raafat El-Hacha – Performance Evaluation of UHPFRC Columns (P-M Interaction Diagrams)
    - Nathalie Roy – Toward a confinement design methodology for seismic strengthening and durability improvement of reinforced concrete columns jacketed with UHP(FR)C
    - Cesario Tavares – New Protocols to Characterize Compressive Strength of Concrete Materials with Strengths up to 170 MPa
    - Ali Semendary – Evaluation of Design Provisions for Interface Shear Friction between Precast Concrete and UHPC
    - Kevin McMullen – Development of an Analytical Design Model for Ballistic Impact on UHPC
  - b. Committee discussion of process between 10/26 and 12/1
8. Committee Priorities / Reports
  - a. 239-C ETR on the Structural Design of UHPC – Vic Perry
  - b. 239-D Materials & Methods of Construction with UHPC – Dominique Corvez
  - c. 239-E Educational Outreach – Tess Ahlborn
  - d. 239 UHPC Strategic Direction – Jimm Milligan
9. Test Methods for UHPC - Vic Perry
10. Presentation Sessions: Current and Future – Kay Wille
  - a. Fall 2020 – *UHPC: Making Connections* on THURS at 4pm
  - b. Spring 2021 Baltimore
11. CRC Funded Research – Structural Response and Buckling Behavior of Slender UHPC Columns – Moustafa
12. Key External UHPC-related Efforts
  - a. FHWA Development of Guide Specification for AASHTO – Ben Graybeal
  - b. CSA Bridge Design Standard – Katrin Habel and Vic Perry
  - c. PCI-UHPC
13. Collaborations
  - a. International updates
  - b. ACI Committee Liaison Reports
14. New business – (please inform chair prior to start of the meeting if you wish to add new business)
15. Adjourn – next meeting expected to be March 29, 2021 in Baltimore or virtual

**PARKING LOT: Student Competition (Milligan), Compilation of Research (El Helou), 239-A ETR (Crane)**

**Events Associated with ACI COMMITTEE 239**  
**ULTRA-HIGH PERFORMANCE CONCRETE**  
**at the 2020 ACI Fall Convention**

**Committee Meetings:**

239	Ultra-High Performance Concrete	Monday	6:30p - 9:00p	WEB
239-C	Structural Design on UHPC	Monday	1:30p - 3:30p	WEB
239-D	Materials & Methods of Construction with UHPC	Monday	4:00p - 6:00p	WEB
239-E	Educational Outreach	Sunday	4:00p - 6:00p	WEB

**Sessions:**

**Emerging Connections for Accelerated Bridge Construction**                      SUN, 5:00p to 6:00p                      Web

- *Mechanically Spliced Precast Bridge Columns for High-Seismic Regions – Mostafa Tazarv*
- *A Novel Precast Pier System for Accelerated Bridge Construction in Seismic Regions – Mustafa Mashal*
- *Applications of Advanced Materials for Full-Depth Precast Bridge Deck Panels – Mohamed Moustafa*
- *ABC Bridge Column-Footing Connections with Recessed Grouted Splice Sleeve Connectors – Chris Pantelides*

**Shear Behavior of UHPC Bridge Girders**    MON, 1:00 to 2:00p                      Web

- *Tentative Shear Design Recommendations of UHPC Prestressed Concrete Members – Maher Tadros*
- *Shear Performance of UHPC Bridge Girders – Ben Graybeal and Rafic El Helou*

**UHPC – Innovations in Making Connections**    THURS, 4:00 to 6:00p                      Web

- *Connecting Bridges and People - UHPC Link Slabs – Vic Perry and Peter Seibert*
- *Structural Performance of Precast Members Made Continuous for Live Load with UHPC Connections – Royce Floyd, Jeffery Volz, and Connor Casey*
- *Non-proprietary UHPC for Seismic ABC Grouted Ducts Connections – Mohamed Moustafa*
- *New Innovative Thin Lift UHPC Overlay Paving Machine – Peter Seibert*
- *Making the Right Connections in Architectural UHPC – Larry Rowland*