

TECHNOLOGY FORUM AGENDA
Hilton Santa Fe - Historic District
May 14-16, 2024

The times listed are Mountain Daylight Time.

Tuesday – May 14, 2024

5:30 pm – 7:00 pm **Welcome Reception**

Wednesday – May 15, 2024

7:00 am – 8:00 am **Registration & Breakfast**

8:00 am – 8:10 am **Welcome & Overview**

Speaker: **Brian H. Green**, RPG, FACI, Senior Research Geologist & **CIC Chair**
Company: U. S. Army Corps of Engineers - Engineer Research & Development Center

8:10 am – 8:50 am **Technology Showcase: Instant Air Meter: Rapid Measurement of Air in Fresh Concrete**

Speaker: **Jed C. Wilbur**, Engineer
Company: Create, LLC

8:50 am – 9:30 am **Presentation: SoFi Stadium - Innovations in Structural Design**

Speaker: **Walter Eggers**, Chief Bridge Engineer
Company: Kiewit Engineering Group Inc.

9:30 am – 10:10 am **Technology Showcase: Next-Generation Assessment of Concrete Structures Using Artificial Intelligence (AI)**

Speaker: **Ali Khaloo**, PhD, CEO and Co-founder
Company: Aren, Inc.

10:10 am – 10:25 am *****Break*****

10:25 am – 11:05 am **Technology Showcase: Improving Sustainable Concrete Production Practices Using an On-Board Monitoring System of the Fresh Concrete Properties**

Speaker: **Pierre Siccardi**, **Product Analyst** (*presenting on behalf of Marc Jolin*)
Company: Command Alkon

11:05 am – 11:45 am **Technology Showcase: Why Durability Needs to Be Assessed on Site and How?**

Speaker: **Roberto Juan Torrent**, PhD, Civil Engineer
Company: Materials Advanced Services

11:45 am – 11:55 am **An Address on the Importance of Innovation**

Speaker: **Frederick H. Grubbe**, MBA, CAE, Executive Vice President
Company: American Concrete Institute

12:00 pm – 1:00 pm *****Lunch*****

1:00 pm – 1:30 pm **Presentation: Current Landscape of Low-Carbon Concrete Materials**
Speaker: **Dean Frank**, Executive Director
Company: NEU – An ACI Center of Excellence for Carbon Neutral Concrete

1:30 pm – 3:00 pm **Low-Carbon Concrete Panel:** several technology owners will provide **15-minute snapshots** of their alternative low-carbon materials. Presentations will focus on the technology; current scale of production; main benefits; product and code compliance and case studies of use. An AI-powered LCA and EPD Technology that could benefit the AEC industry will also be introduced.

Panelists:

- Fortera – **Craig W. Hargis**, PhD, Vice President Products
- C-Crete Technologies – **Rouzbeh Savary**, PhD, Founder & President
- Terra CO2 – **Michele Blackburn**, Commercial Director
- Prometheus Materials – **Loren Burnett**, President & CEO
- Pathways – **Dorian Krausz**, PE, LEED AP, Founding Carbon Lead

Dean Frank will moderate a Q&A segment with forum attendees and panelists.

3:00 pm – 3:15 pm *****Break*****

3:15 pm – 3:55 pm **Presentation: Innovative Solutions for Adoption of Low Carbon Concrete in Codes**
Speaker: **Matthew P. Adams**, PhD, FACI, Associate Professor
Company: John A. Reif, Jr. Department of Civil and Environmental Engineering, New Jersey Institute of Technology

3:55 pm – 4:35 pm **Case Study: Reducing Embodied Carbon without using Carbon Credits**
Speaker: **Forrest Etter**
Company: Prologis

5:30 pm – 8:30 pm **Off-site Cocktail Hour & Dinner**
The Sunset Terrace
112 West San Francisco Street
Santa Fe, NM 87501

Thursday – May 16, 2024

- 7:00 am – 8:00 am **Registration & Breakfast**
- 8:00 am – 8:40 am **Presentation: Big Data Trends: Outcomes of Implementing an Automatic Feedback System to Manage Slump during Delivery of Ready-Mix Concrete**
Speaker: **Nathan A. Tregger**, PhD, Director of Data Analytics
Company: GCP Applied Technologies
- 8:40 am – 9:20 am **Presentation: A Material Science-Based and Data-Driven Approach Towards Sustainable and Durable Infrastructure**
Speaker: **Kai Gong**, Assistant Professor
Company: Rice University
- 9:20 am – 10:00 am **Presentation: Reverse Engineering - The Power of Beginning with the End in Mind**
Speaker: **Cary Kopczynski**, PE, SE, FACI, FPTI, CEO & Senior Principal
Company: Cary Kopczynski & Company, Inc.
- 10:00 am – 10:30 am *****Break*****
- 10:30 am – 11:10 am **Presentation: Revolutionizing Concrete Production with AI: Bridging the Gap Between Innovation and Application**
Speaker: **Andrew Fahim**, Senior Director of Research
Company: Giatec Scientific, Inc.
- 11:10 am – 11:50 am **Technology Showcase: NTeC® - Carbon Nanotubes to Beneficiate Concrete**
Speaker: **Ricardo Prada Silvy**, PhD, Chief Technology Officer
Company: CHASM Advanced Materials
- 11:50 am – 12:00 pm **Closing Remarks**