

The logo features a large, bold, white letter 'I' on the left. To its right, the words 'STRUCTURAL ENGINEERING' are stacked vertically in a large, white, sans-serif font. Below 'ENGINEERING', the word 'CONFERENCE' is written in a smaller, white, sans-serif font. The entire logo is superimposed on a background image of a modern building with a glass facade and brickwork.

I STRUCTURAL ENGINEERING CONFERENCE

Wednesday, April 6, 2022

I Hotel and Conference Center

1900 South First Street, Champaign, Illinois 61820

Plenary Session

Presiding: *Bassem Andrawes*, Professor, CEE at Illinois (Urbana, IL)

- 8:00am Registration
- 8:50am Welcome
- 9:00am Campus Instructional Facility for the College of Engineering University of Illinois at Urbana-Champaign
Toby Mitchell, Associate, SOM (Chicago, IL)
Jim Pawlikowski, Principal/Director of Engineering, REX Engineering Group (Chicago, IL)
- 9:40am Arcibo Observatory Main Cable Socket Failure Investigation
Jonathan McGormley, Principal, WJE (Northbrook, IL)
- 10:20am BREAK
- 10:40am High Strength Bolts and the New RCSC Specification
Todd Ude, Senior Engineering Manager, Parsons; Chair of RCSC Committee A2/A4, Education and Research (Chicago, IL)
- 11:20 am I-40 Hernando DeSoto Fracture
Kenton Zinn, Regional Director, Michael Baker (Chicago, IL)
- 12:00pm Lunch and Poster Session

Afternoon Concurrent Sessions

Concurrent Session 1 – Building Structures

Session Moderator: *TBD*

- 1:00pm Storm Shelter Design
Martin White, Senior Engineer, TGRWA (Chicago, IL)
- 1:35pm 800 W Fulton Chicago
Aaron Mazeika, Director, SOM (Chicago, IL)



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- 2:10pm Efficient Design of spanning trusses guided by design diagrams
Arek Mazurek, Senior Structural Engineer, REX Engineering Group (Chicago, IL)
- 2:45pm BREAK
- 3:05pm Tribune Tower – 435 Michigan Ave – Chicago, IL
Matthew McElmury, Senior Engineer, TGRWA (Chicago, IL)
Jessica Dineen, Engineer, TRGWA (Chicago, IL)
- 3:40pm Projecting Future Hurricane Wind and Freshwater Flood Risk under Climate Change
Eun Jeong Cha, Assistant Professor, CEE at Illinois (Urbana, IL)
- 4:15pm ADJOURN

Concurrent Session 2 – Bridge Structures

Session Moderator: *TBD*

- 1:00pm Inspection of the Zilwaukee Bridge; Saginaw, Michigan
Greg Hasbrouck, Complex Bridge Technical Specialist, Parsons (Chicago, IL)
Matthew Chynoweth, Chief Bridge Engineer, Director, Bureau of Bridges and Structures,
Michigan Department of Transportation (Lansing, MI)
- 1:35pm Rehabilitation of the 3rd Avenue Bridge
Angela Kingsley, Bridge Engineer, HNTB (Minneapolis, MN)
Irsilia Colletti, Project Engineer, HNTB (Chicago, IL)
- 2:10pm Simple and Continuous
Brian Byrne, Senior Structural Engineer, HW Lochner (Chicago, IL)
- 2:45pm BREAK
- 3:05pm BNSF Sandpoint Junction Connector Sandpoint, Idaho
Jason Cunningham, Structural Engineer, Hanson (Peoria, IL)
- 3:40pm Advancing US offshore wind energy through computational fluid-structure interaction
Jinhui Yan, Assistant Professor, CEE at Illinois (Urbana, IL)
- 4:15pm ADJOURN