

## 2023 Forensics Engineering Conference: Buildings and Infrastructure

February 9-10, 2023 EN23003

**ABSTRACTS AND BIOS ([bit.ly/Forensics\\_Abstract\\_Bio](http://bit.ly/Forensics_Abstract_Bio))**

Thursday, February 9, 2023				
TIME	SESSION	LECTURE TITLE	PRESENTER	COMPANY
8:00 AM - 8:05 AM	MORNING	Welcome and Introduction/Moderator	David W. Fowler, Ph.D., PE	University of Texas at Austin Professor Emeritus
8:05 AM - 9:00 AM	Session 1a	Surfside, Anatomy of a Complex Forensic Investigation	Juan Carlos Araiza, Ph.D., PE Senior Vice President	EFI Global, Inc.
9:00 AM - 10:00 AM	Session 1b	Methods for Field Assessment of Biogenic Acid Attack in Concrete Structures	Ali Abu-Yosef, Ph.D., PE, SE Senior Engineer	Pivot Engineers
10:00 AM - 10:20 AM		Break		
10:20 AM - 11:20 AM	Session 2a	Understanding Pre-engineered Metal Buildings through Forensic Investigation	Zachary D. Kates, PE , LEED AP Principal and Texas Forensics Practice Leader	Thornton Tomasetti
11:20 AM - 12:20 PM	Session 2b	Load Testing: by Design or Default	Michael J. Drerup, PE, F.ASCE Principal Engineer	Drerup Building Performance Engineering, PLLC
12:20 PM - 1:00 PM		Lunch		
1:00 PM - 1:05 PM	AFTERNOON	Welcome and Introduction/Moderator	Todd Helwig, Ph.D.	Ferguson Structural Engineering Laboratory University of Texas at Austin
1:00 PM - 2:00 PM	Session 3a	Assessments on the Peninsula: Reporting on Florida Hurricanes	Bart Barrett, PE Principal	Nelson Forensics, LLC
2:00 PM - 3:00 PM	Session 3b	Engineering for Soil-Structure Interaction: How Forensic Investigations Improve the Practice of Engineering	John T. Bryant, Ph.D., P.G., PE, CPG, D.GE, M.ASCE, F.PTI Founder and CEO	Bryant Consultants
3:00 PM - 3:20 PM		Break		
3:20 PM - 4:20 PM	Session 3c	Millennium Tower—What Happened?	Ronald O. Hamburger, PE, S.E., M-IStructE Sr. Principal and Chairman	Simpson Gumpertz & Heger
4:20 PM - 5:20 PM	Session 4	Beyond the Building Code, a Forensic Approach to Construction Defect Evaluation	Brian C. Eubanks, MSCE, PE, D-IBFES, D.F.E. Principal Structural Engineer	Paragon Structural Engineering
5:30 PM – 6:30 PM	TOUR	Tour: Ferguson Structural Engineering Laboratory UT Austin Pickle Research Campus	Todd Helwig	University of Texas at Austin
Friday, February 10, 2023				
8:00 AM - 8:05 AM	MORNING	Welcome and Introduction/Moderator	Jim D. Wiethorn, Ph.D., PE	International Crane & Construction Safety Solutions, LLC
8:05 AM - 9:00 AM	Session 5a	Failures During Demolition	David B. Peraza, PE Principal Engineer	Exponent
9:00 AM - 10:00 AM	Session 5b	Fracture Critical Bridges – Fact or Fiction?	Frank Russo, Ph.D., PE Founder	Russo Structural Services
10:00 AM - 10:20 AM		Break		
10:20 AM - 11:20 AM	Session 6a	Texas City: Worst Industrial Accident in our History	David W. Fowler, Ph.D., PE	University of Texas at Austin Professor Emeritus
11:20 AM - 12:20 PM	Session 6b	Ethical Lessons Learned from the FIU Bridge Collapse	Aaron J. Mann General Counsel – Risk Management Principal	Terracon
12:20 PM - 1:00 PM		Lunch		
1:00 PM - 1:05 PM	AFTERNOON	Welcome and Introduction/Moderator	Lisa Powell, PE	H&H PESC
1:05 PM - 2:00 PM	Session 7a	Wind vs. Cranes and Loads: How do you prepare?	Jim D. Wiethorn, Ph.D., PE Founder & Chairman	International Crane & Construction Safety Solutions, LLC
2:00 PM - 3:00 PM	Session 7b	Mechanics of Metal Plate-Connected Wood Truss Failures	Tim Ott, PE Regional Manager	Nelson Forensics, LLC
3:00 PM - 3:20 PM		Break		
3:20 PM - 4:20 PM	Session 8a	Nondestructive Diagnosis and Imaging of Damage, Flaws and Repairs in Concrete Bridges and Buildings	Larry D. Olson, PE President & Chief Engineer	Olson Engineering, Inc.