KIEWIT ENGINEERING

TECHNICAL SUMMIT

2027

SPONSORED BY KIEWIT'S CHIEF ENGINEERS COUNCIL

CEC SPONSOR **HIMANSHU PATEL** | CEC CO-SPONSOR **DAVID REDMAN** | CHAIR **ANGELA SYLVESTER**

TUESDAY, FEBRUARY 23

9:30-10:00 CST

Welcome from Kiewit Engineering Group President

Dan Lumma

10:00-11:00 CST

Keynote Speakers

Entering the Era of Engineering and Construction Intelligence

Jessica Herrala, Vice President of North America, Buildots

11:00-11:15 CST BREAK

TRACK A	TRACK B
11:15-12:15 CST **Quality In, Quality Out:** Structured Prompting for Engineering Deliverables *Kevin Garmendia*	11:15-12:15 CST **Zero Liquid Discharge Treatment:** Principles, Challenges and Practical Considerations *Bob Craig & Vincent Como*
12:15-12:30 CST BREAK	
12:30-1:30 CST **Readiness for the Emergence of the 765kV Ultra High Voltage Market** *Terry Wolfsen & Aaron Armbrecht*	12:30-1:30 CST **Simulation-Based Concrete Placement Assessment for DNNP** *Tingting Juan & Daman Grewal*
1:30-1:45 CST BREAK	
1:45-2:45 CST **Advances in Industrial Water Treatment** *Kristen Jenkins & Daniel Wilson*	1:45-2:45 CST **Evaluating the Benefits of Temporary Drainage on Mega Construction Projects** *Fnu Anurag & Trevor Sotak*
2:45-3:00 CST BREAK	
3:00-4:00 CST **Different Brains, Better Designs:** Leveraging Neurodiversity to Strengthen Projects *Andrea Breitzke & Katie Eagerton*	3:00-4:00 CST **Engineering Considerations for API 618 Reciprocating Compressors** *Steven Bell*

WEDNESDAY, FEBRUARY 24

9:30-10:00 CST

Executive Message

John Donatelli, Kevin Needham, Robin O'Callaghan & Luke Goss

TRACK A	TRACK B
10:00-11:00 CST **RAM Analysis to Optimize Facility Performance and Resilience** *Sanjay Ganjam & Austin Thomas*	10:00-11:00 CST **Accelerating Underground Transmission Delivery for Large Data Center Power Projects** *Wei Zheng, Daniel McEnaney & Shane Miller*
11:00-11:15 CST BREAK	
11:15-12:15 CST **Bridging Constructability Challenges:** Innovative Temporary Works for Top-Down Bridge Replacement & Girder Erection *Jared Duren, Ting Gan & Wally Chen*	11:15-12:15 CST **Tunnel Launching Shaft Design and Construction Case Histories** *Aaron McClellan & Keith Mattecheck*
12:15-12:30 CST BREAK	
12:30-1:30 CST **Developing Nuclear Steam Supply System (NSSS) Capability:** Understanding the System, Building the Competency and Executing the Strategy *Joel Ewald & John Robinson*	12:30-1:30 CST **Resilient Reconstruction of the Virginia Creeper Trail:** Integrating Hydrology, Historic Preservation and Design-Build Delivery *Will Fischer, Madison Brunk & Jordon Weber*
1:30-1:45 CST BREAK	
1:45-2:45 CST **Blue Power for the AI Energy Era:** Unlocking Sustainable Industrial Growth *Girish Patel*	1:45-2:45 CST **From Design Rules to Drawing-Ready Outputs** *Aoife McArdle & Aditi Laddha*
2:45-3:00 CST BREAK	
3:00-4:00 CST **New Methods for Minimizing the Volumes of Solids and Destroying PFAs in Biosolids** *Steven Greseth & Kristen Jenkins*	3:00-4:00 CST **From Models to Data:** A Scalable Metadata Framework for Engineering Automation *Andrea Hernandez & Maria Velasco*

THURSDAY, FEBRUARY 25

9:45-10:00 CST

Executive Message

Mike Janssen, Adam Webb & Claudia Pulido Collantes

10:00-11:00 CST

Keynote Speakers

Chief Engineers Panel
AI By Design: Engineering Responsibly

Himanshu Patel, Thomas Hudson, Sanjay Ganjam, Baljinder Bassi, Forest Rong & Jeff Klinkhardt

11:00-11:15 CST BREAK

TRACK A	TRACK B
11:15-12:15 CST **Beyond Relief:** A Layered Approach to Preventing and Reducing Flare Loads *Doo-hwan Cha & Ayesha Patel*	11:15-12:15 CST **Optimizing Data Center Cooling Technologies for Efficiency, CapEx and Location Flexibility** *Ash Sheoran & Anindra Mazumdar*
12:15-12:30 CST BREAK	
12:30-1:30 CST **The Rise of the AI-Augmented Structural Engineer** *Zylene Enciso, Juan Sanchez & Partha Das*	12:30-1:30 CST **From Conceptual Layout to Machine Control:** Evolution of Models Throughout the Project Lifecycle on Mega Infrastructure Projects *Suad Bakhshiyev, Jesse Barton & Sanjay Nepal*
1:30-1:45 CST BREAK	
1:45-2:45 CST **Beyond the Design Basis:** Rethinking Acid Gas Removal Unit Design for a Change in Gas Composition *Mark Harbison & Mohammad Mahdavian*	1:45-2:45 CST **A Practical Guide for Pilot Testing of Water Treatment Systems** *James Scholl & Jamaie Scott*
2:45-3:00 CST BREAK	
3:00-4:00 CST **GIS - Practical Tools for Field and Office Communication and Collaboration** *Rigel Rucker, Jonathan Mata & Susana Lizcano*	3:00-4:00 CST **Modularization:** From Vision to Value *Lina Gonzalez & Jeff Wheeler*

QUESTIONS? KIEWITTECHNICALSUMMIT@KIEWIT.COM