

# Digital Twins in the Built Environment

A Virtual Symposium

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THURSDAY, JUNE 13, 2024

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## Purpose

A 3–4-hour virtual symposium on Digital Twins in the Built Environment.

This event is a follow-up to a recently published National Academies study on [Foundational Research Gaps and Future Directions for Digital Twins](#),

### 12:00–12:10 Welcome

Carolina Cruz-Neira, University of Central Florida and Committee Member for the study on [Foundational Research Gaps and Future Directions for Digital Twins](#)

### 12:10–12:50 Opening comments from federal groups

Stacey Levine, Program Director, NSF DMS

Daniel Linzell, Division Director, NSF CMMI

Chris Saldaña, Director, Advanced Materials and Manufacturing Office, DOE-EERE

Brian Bothwell, GAO

Michael Pease, NIST

*Additional speakers to come.*

### 12:50–1:20 Case Study 1: Digital Twins for Facility Operations

Burcu Akinci, Carnegie Mellon University

### 1:20–1:50 Case Study 2: Specialized Applications – Nuclear

Vaibhav Yadav, INL

### 1:50–2:20 Case Study 3: Digital twins for hydropower systems: opportunities on operational optimization and smart maintenance

Hong Wang, ORNL and Chitra Sivaraman, PNNL

### 2:20–3:30 Barriers to Adoption panel – cyber, data, workforce

## Meeting Agenda Title

Moderated by Vaibhav Yadav, INL

Joshua New, ORNL

Carrie Dossick, UW

Carolina Cruz-Neira, UCF

Parastoo Delgoshaei, NIST

*Additional speakers to come.*

### **3:30–4:00**    **Next steps (board members from BICE, BMSA, and BEES)**

Mike Lamach for BEES (prerecorded video)

Omar Ghattas of UT Austin, representing CATS/BMSA

Jack Dempsey of AMP, representing BICE

### **MEETING ADJOURNS**