

Quarterly Connection

A NIBS Member Newsletter

Topics Inside

- Page 1-2 Feature Story
- Page 3-4 Building Innovation Podcast
- Page 5 Chief Resilience Officer
Presents on Infrastructure Initiatives
- Page 6-8 Columns
- Page 9-10 NIBS in the News
- Page 11 Observances & Events
- Page 12 Find Us Online



Feature Story

Diving Into Digital Twins With New Emerging Technologies Series

Digital twins is more than a buzz term.

In fact, we're dedicating the inaugural event of the new Building Innovation: Emerging Technologies Series to digital twins.

Digital Twins 2024 takes place December 9-11, 2024, at the Gaylord National Resort & Convention Center at National Harbor, MD.

We recently wrapped a successful call for speaker abstracts, and we're excited about the soon-to-be-announced agenda.

Digital Twins 2024 early bird registration is open through Halloween. Save up to \$100 on registration for the conference.

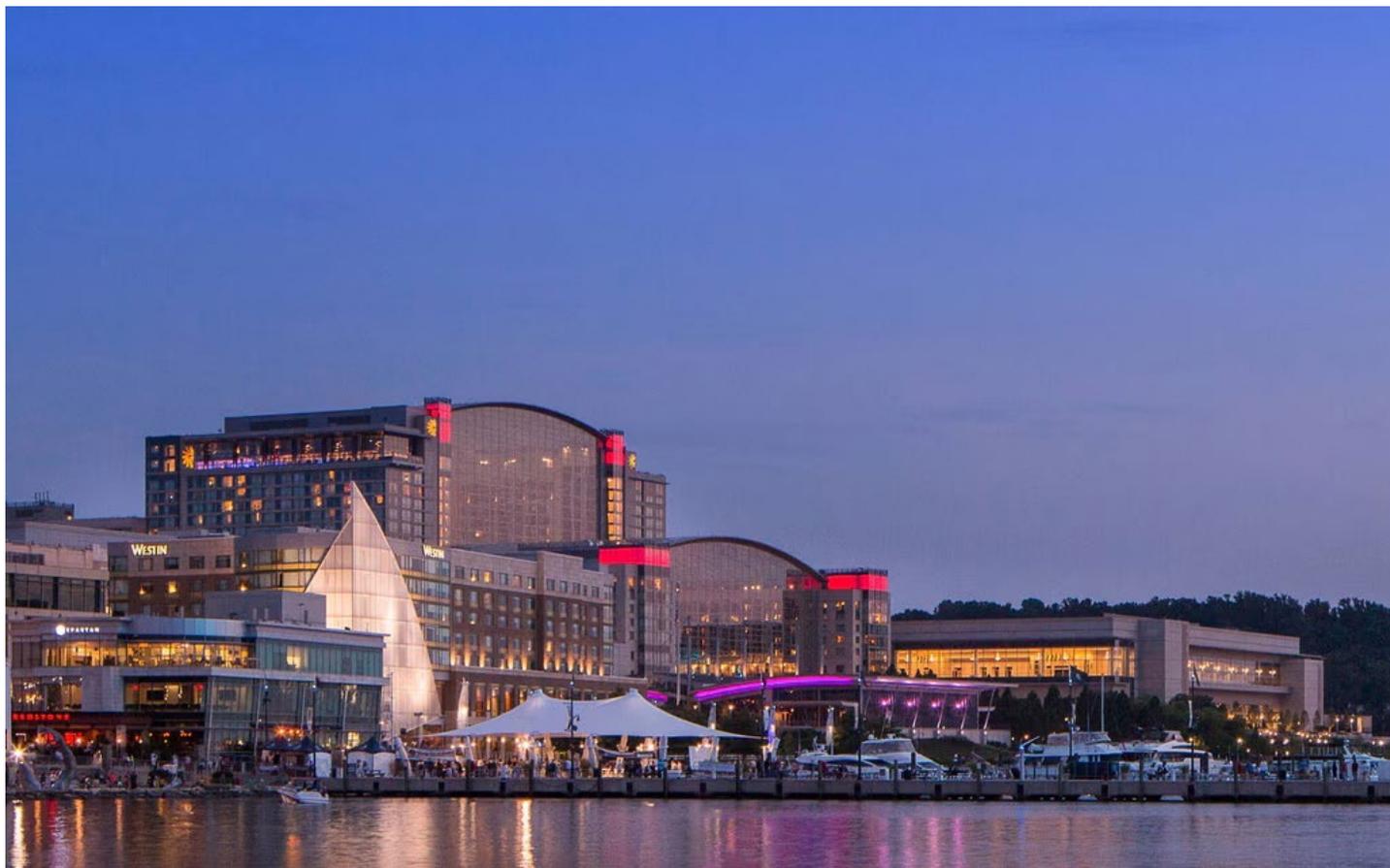
Grad Students: Highlight Your Work with Digital Twins

Graduate students from higher education institutions are invited to submit abstracts to highlight their research on digital twins in the built environment.

Posters will be displayed in the expo hall for attendees and sponsors to view throughout the conference. A single intermission will be designated as a Poster Session, where attendees and sponsors are encouraged to review the content, engage with the students, and cast their votes.

The deadline to submit a poster session abstract is October 18, 2024. Winners will be announced during the closing general session on December 11, 2024.

[Learn more about Poster Session submissions.](#)



Building Innovation: The Podcast

Building Innovation Podcast Season 2 Opens With NBIMS Series

When NIBS launched the Building Innovation Podcast, our goal was to educate the building industry on current challenges and emerging solutions and hear experiences and insights from experts in the built environment.

This year, host Johnny Fortune, Executive Director of the National BIM Program, carried us through nine episodes:

- [Dr. John Messner, Chair, U.S. National BIM Standard](#), dove into BIM, NBIMS V4, and challenges and opportunities facing the built environment
- [Adam Matthews, Head of Global Digital Transformation with Connected Places Catapult](#), shared a global perspective on how digital technology standards for the built environment are being developed and implemented around the world
- [Kimon Onuma, President, Onuma Inc.](#), discussed a range of emerging technologies, such as artificial intelligence and digital twins and explored their impact on the built environment
- [Salla Eckhardt](#) discussed how digital transformation is socially equalizing the construction industry and explored trends, including AI, smart cities, the metaverse, and data governance
- [Catch up with the NIBS 2023 award recipients](#) - Future Leaders, Exceptional Woman in Building, The Mortimer M. Marshall Lifetime Achievement, and NIBS Innovator - about their work and suggestions for others on making an impact in the industry
- Industry experts [Jay Kline, Roger Grant, and Kimon Onuma](#) explored the transformative impact of AI on digital twins, industry standards, BIM, resiliency, and sustainability
- [Fred Mills, with The B1M, and Sasha Reed, with Procore Technologies](#), discussed a critical initiative to combat the mental health crisis in the construction industry, Get Construction Talking
- [Marc Goldman, Director, AEC Industry Solutions with Esri](#), discussed the integration of GIS, BIM, and digital twins and the future of the AECO industry
- [The Digit Group, Inc. President and CEO Paul Doherty](#) discussed smart cities and the metaverse, highlighting a human-centric and data-driven approach to urban development



What's in Store for Season 2

Jumping into the next season of Building Innovation: The Podcast, Fortune has recorded a four-part series on the National BIM Standard – United States version 4.

Guests include Carrie Dossick, Associate Dean of Research at the University of Washington College of Built Environments; John Messner, Professor, Penn State; Ralph Kreider, with Building Better; and T.J. Meehan, Vice President, Technology Solutions, CADD Microsystems.

Stay tuned for the rollout of these episodes. [Learn how you can support the Building Innovation Podcast.](#)





NIBS Chief Resilience Officer Presents on Lifeline Infrastructure and TurboGrants

Dr. Jiqui Yuan, NIBS Chief Resilience Officer and Head of Engineering, is wrapping a busy quarter of meetings and speaking engagements around resilience and infrastructure.

Through October 4, Dr. Yuan is at the National Emergency Management Association Annual Forum with IEM President and CEO Bryan Koon and NEMA President Russ Strickland, Secretary with the Maryland Department of Emergency Management.

The group is presenting NIBS' TurboGrants™ initiative to the NEMA resilience committee.

TurboGrants is a platform to streamline the mitigation grant application process across federal agencies to better support local government and drive equitable investments in communities disproportionately impacted by disasters. TurboGrants is a novel solution that will leverage technology to simplify the grant identification process, match applicants' needs with appropriate

resources, and provide enhanced technical assistance to expedite resilience-building initiatives.

Also recently, Dr. Yuan presented about lifelines and resilience initiatives at BuiltWorlds' 2024 Infrastructure Conference in Washington and the Big City Emergency Managers (BCEM) meeting. He participated in a high-level roundtable on emerging issues surrounding commercial buildings, resilience, and insurance with the U.S. Green Building Council during Climate Week in New York.

Dr. Yuan also recently keynoted the Disasters Expo USA. His presentation: Designing Disaster Recovery Times: Building Codes and Lifeline Infrastructure Resilience. There, Dr. Yuan discussed the important findings of the NIBS Mitigation Saves study and design for functional recovery.



Dr. Yuan attended the USGBC round table, Opportunities for the Insurance & Building Industries, during New York Climate Week 2024. From left, Dr. Yuan; NIBS Board Member Yvonne Castillo, Senior Vice President, Risk Advisory, Victor US; and Amy Barnes, Managing Director, Energy Practice, Marsh.



NIBS' Anne Law recently met with Rep. Paul Tonko and heard him speak about the Indoor Air Quality and Healthy Schools Act of 2024 (H.R. 9131) that he championed at the International WELL Building Institute Healthy Building Policy Summit. NIBS looks forward to working with Rep. Tonko and IBWI on policies to improve IAQ and make buildings healthier.

The group explored harnessing digital transformation in the construction industry to advance initiatives, such as resilience, productivity, and decarbonization.

The workshop focused on digitalization through adoption and alignment of international standards. Each delegation shared and received insight on each nation's journey and identified potential areas where the tripartite group could collaborate further.



Columns

NIBS Explores Built Environment International Synergies

NIBS recently hosted a workshop with delegates from National Research Council Canada and Connected Places Catapult UK to convene leaders and discuss international synergies to improve the built environment.



NIBS Leadership Attends Summit Awards Ceremony in Washington

In September, NIBS leaders attended the Summit Awards of the American Society of Association Executives at the National Building Museum in Washington.

NIBS was honored with a Power of Associations Silver Award for our Congressional briefing to reauthorize the National Earthquake Hazards Reduction Program (NEHRP).



The briefing was held in March, and NIBS and industry partners made an appeal for reauthorization of the NEHRP and National Windstorm Impact Reduction Program (NWIRP). Both program reauthorizations expired in September 2023 and 2018, respectively.

Save the Dates: Building Innovation 2025



BUILDING INNOVATION

Conference

We've locked in Building Innovation 2025, and we're looking forward to meeting next year at The Ritz-Carlton Tysons Corner in Virginia!

BI2025 will take place May 19-21. [View the sponsorship prospectus and see how you can support BI2025.](#)

Webinar Summary: BIM and Digital Twins Co-exist to Drive Sustainability

The NIBS Digital Twin Integration Subcommittee (DTI-S) has issued a new [position paper](#), encouraging the integration of building information modeling (BIM) and digital twin technology. This presents a groundbreaking opportunity for the architecture, engineering, construction, and operations (AECO) industry.

NIBS recently held a webinar that covered the main takeaways from the paper.

The position paper envisions a future where BIM and digital twins “coexist and synergize to drive sustainability and enhance operational performance ... [the paper] aims to demystify the relationship between BIM and digital twin and showcase how through strategic integration, leaders, technologists, and practitioners can accelerate significant industry-wide change.” [View the webinar recording and session notes.](#)

Women in Residential + Commercial Construction Conference

NIBS attended the Women in Residential + Commercial Construction Conference in Nashville. Our team included Senior Vice President of Professional and Government Affairs Anne Law, Vice President of Corporate and Foundation Relations Sarah Swango, Chief of Staff Jennifer Hitzke, and NIBS Board Member Judy Dinelle, Building Ambassador with 84 Lumber.



Forbes

Council Post: The Importance of Connecting Construction Data for Built Assets

According to the National Institute of Building Sciences' Whole Building Design Guide, construction costs represent less than one-fifth of a built asset's overall costs. The majority of the costs come from repairing and maintaining an asset, which can equate to many millions of dollars over the lifetime of an asset. [Read More >>](#)

Boston Real Estate Times

NIBS Names Anne Law as Senior Vice President of Professional and Government Affairs

The National Institute of Building Sciences (NIBS) announced the appointment of Anne Law as Senior Vice President of Professional and Government Affairs.

"Anne joins NIBS as a critical member of our senior leader team and will leverage her considerable 18-year experience as a government affairs professional," said Dr. George K. Guszczka, President & CEO of NIBS. "Anne will lead our engagement objectives to develop and maintain productive relations with government entities at the federal, state, and local levels to support our strategic priorities in service to the public interest." [Read More >>](#)

The Island News

SC Homeowners Can Get Grants to Strengthen Roofs, Windows Against Hurricanes

Coastal South Carolinians who want to strengthen their roofs against hurricanes can seek up to \$7,500 in state aid

to help pay for upgrades and make their home insurance more affordable.

As the costs of rebuilding following natural disasters has increased, so has home insurance costs. To stave off a crisis, the state started the SC Safe Homes program to lure more insurance companies into the market. [Read More >>](#)

Engineering-News Record

Reports Highlight Compounding Impacts, Costs of Extreme Weather

Earlier this month, the National Oceanic and Atmospheric Administration predicted that the 2024 Atlantic hurricane season could rank "among the busiest on record," as climate change continues to cause more extreme weather events. With the number of such events caused by warming ocean temperatures and other climate change set to grow, costs also will rise—in some cases exponentially. [Read More >>](#)

Alaska Native News

Commerce Committee Advances Murkowski's Landslides, Earthquakes Legislation

Wednesday, the U.S. Senate Committee on Commerce, Science, and Transportation favorably reported U.S. Senator Lisa Murkowski's (R-AK) National Landslide Preparedness Reauthorization Act on a strong bipartisan basis. Murkowski's bill, cosponsored by U.S. Senator Maria Cantwell (D-WA), would reauthorize current law for ten years, through Fiscal Year (FY) 2034, and provide the U.S. Geological Survey (USGS) with additional authority and resources to help monitor and prepare high-risk areas for landslides. [Read More >>](#)

Urban Land Institute

Highlights from ULI's Coastal Resilience Research Report

ULI recently published a new research report, *Surge: Coastal Resilience and Real Estate*, which introduces the challenges associated with coastal hazards such as sea level rise, coastal storms, flooding, erosion, and subsidence, and provides best practices for real estate and land use professionals, as well as public officials, to address them. [Read More >>](#)

Nature

Static Analysis-Based Rapid Fire-Following Earthquake Risk Assessment Method Using Simple Building and GIS Information

After the occurrences of large-scale earthquakes, secondary damage (e.g., fire following earthquake) can result in tremendous losses of life, properties, and buildings. To reduce these disaster risks, fire following earthquake assessment methods composed of ignition and fire-burned rate estimation models have been utilized.

[Read More >>](#)

Observances & Events

October – Careers in Construction Month

October - Indoor Air Quality Month

October 2 – Energy Efficiency Day

October 2-4 – Rosh Hashanah

October 6-12 – Fire Prevention Week

October 7 - World Architecture Day

October 7 – National LED Light Day

October 11 – Yom Kippur

October 14 – Columbus Day/Indigenous Peoples' Day

October 14 – World Standards Day

October 14-18 – Construction Inclusion Week

October 17 – [The Intersection of Indoor Air Quality and Energy Efficiency](#)

November – Native American Heritage Month

November 8 - National STEM/STEAM Day

November 11 – Veterans Day Holiday

November 14 – [U.S. Celebration of World Standards Day](#)

November 28 – Thanksgiving

December 3 – Giving Tuesday

December 5 – World Soil Day

December 5 – International Volunteer Day

December 9-11 – [Building Innovation: Emerging Technologies Series, Digital Twins 2024](#)

December 10 – Human Rights Day

December 25 – Christmas

December 25-January 2 – Hanukkah

December 26-January 1 – Kwanzaa

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NIBS Nominates ICC CEO Dominic Sims for WSD Leadership Award

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NIBS Names SVP of Professional & Government Affairs Anne Law

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The Opportunities and Challenges of Modular Construction

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Digital Technology Council Seeks Board Nominations

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NIBS Opens Call for Speaker Abstracts for Building Innovation: Emerging Technologies Series

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NIBS Receives ASAE Silver Award for Earthquakes Briefing

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Diving Into Digital Twins for the New Emerging Technologies Series

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Free membership for the rest of 2024, plus \$50 off an AIAU subscription. Join AIA for 2025—the largest, most influential network of architecture professionals—and access the community, resources, and unlimited CE to design a better world, together.

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