



66TH INTERNATIONAL HEEP CONFERENCE

OCEANS OF OPPORTUNITY

MYRTLE BEACH, SOUTH CAROLINA
OCTOBER 5-9, 2025



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1. Scan the QR code to download the CVENT APP and open the event.
2. If the event doesn't open automatically, search for IHEEP 2025 in the app to find it.
3. To track your attendance throughout the conference, click the profile icon and click "Login."
4. Enter the name and email that you registered with. A verification code will be sent to your email and phone number (if provided) to log into the conference App.

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Jessica Hunt - Guest Program
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GREETINGS FROM MYRTLE BEACH

66TH INTERNATIONAL HIGHWAY ENGINEERING EXCHANGE PROGRAM

MYRTLE BEACH, SOUTH CAROLINA
OCTOBER 5-9, 2025

The Highway Engineering Exchange Program (HEEP) is an international organization that promotes advances in transportation engineering through the exchange of knowledge and information technology.

2025 HEEP Officers

Iris Neal

President

South Carolina Dept. of Transportation

Jacob Tambunga

Vice President

Texas Dept. of Transportation

Allen Melley

Secretary

Pennsylvania Dept. of Transportation

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PRESIDENT'S WELCOME

Welcome to Myrtle Beach! We are truly honored that South Carolina is hosting IHEEP for the very first time in 66 years. It's something our state has hoped for a long time, and we are so grateful it has finally come together.

I want to sincerely thank the entire SCDOT team for all the work that went into making this week possible, and every IHEEP member—our 50 DOTs, Puerto Rico, Area V, the Board of Directors, vendors, consultants, contractors, and partners—who continue to support this conference year after year.

This year's theme, "Oceans of Opportunity," couldn't be more fitting. Serving as President has been the most meaningful opportunity of my career. I was born and raised in rural South Carolina, picking watermelons and tying rebar with my dad and sister. That humble upbringing put me on the path of where I am today. Wanting to be like my dad, I pursued civil engineering at Clemson University. I interned with DOT in the summers, and I've been blessed ever since with a career surrounded by my work family. I never could have imagined the impact this role as President would have—it's been a true privilege to serve with your support.

Planning this conference—working with Meagan and Haley, juggling the never-ending need for hotel rooms, building the program, and handling last-minute changes—has honestly been a lot of fun. One of my favorite parts was getting on the phone day after day with all of IHEEP community whose innovation and experience truly inspire me. This experience has been unforgettable—I've learned more this year than I ever expected, and I've built friendships that I know will last a lifetime.

IHEEP is about connection. IHEEP is family. Until you experience IHEEP as President, you can't imagine the depth of support this community provides. The UAS Committee—DOT and consultant alike—showed up week after week to build out the IHEEP Technology Showcase, never once saying it couldn't be done despite the scope growing bigger each time. Our vendors and partners showed up right alongside them to bring it to life. Additionally, this year, the entire IHEEP community rallied around a huge goal—working together to bring all 50 DOTs to the table. Whether or not we reach that exact number, I couldn't be prouder of the effort, the outreach, and the connections made along the way.

While you're here, I encourage y'all to meet new people, share ideas, and learn from one another—whether you're talking with someone from a DOT, a consulting firm, a vendor, or a contractor. The exchange of ideas is what makes this community so strong, and it's how we create real change in our industry.

We also hope you experience a little of our southern hospitality while you're here—take in the ocean views, enjoy our local seafood, explore the boardwalk, and see what makes Myrtle Beach such a special place.

Welcome to South Carolina, welcome to Myrtle Beach, and thank you for being part of IHEEP 2025.

—Iris Neal



President, IHEEP 2025



IHEEP CONFERENCE 2025

CONFERENCE SCHEDULE

Registration Desk

Sunday	12:00 p.m. - 5:00 p.m.
Monday	7:00 a.m. - 5:00 p.m.
Tuesday	7:00 a.m. - 5:00 p.m.
Wednesday	7:00 a.m. - 5:00 p.m.
Thursday	7:00 a.m. - 1:00 p.m.

Vendor Hall

Monday	7:00 a.m. - 5:00 p.m.
Tuesday	7:00 a.m. - 5:00 p.m. and 5:30 p.m. to 7:30 p.m.
Wednesday	7:00 a.m. - 3:15 p.m.





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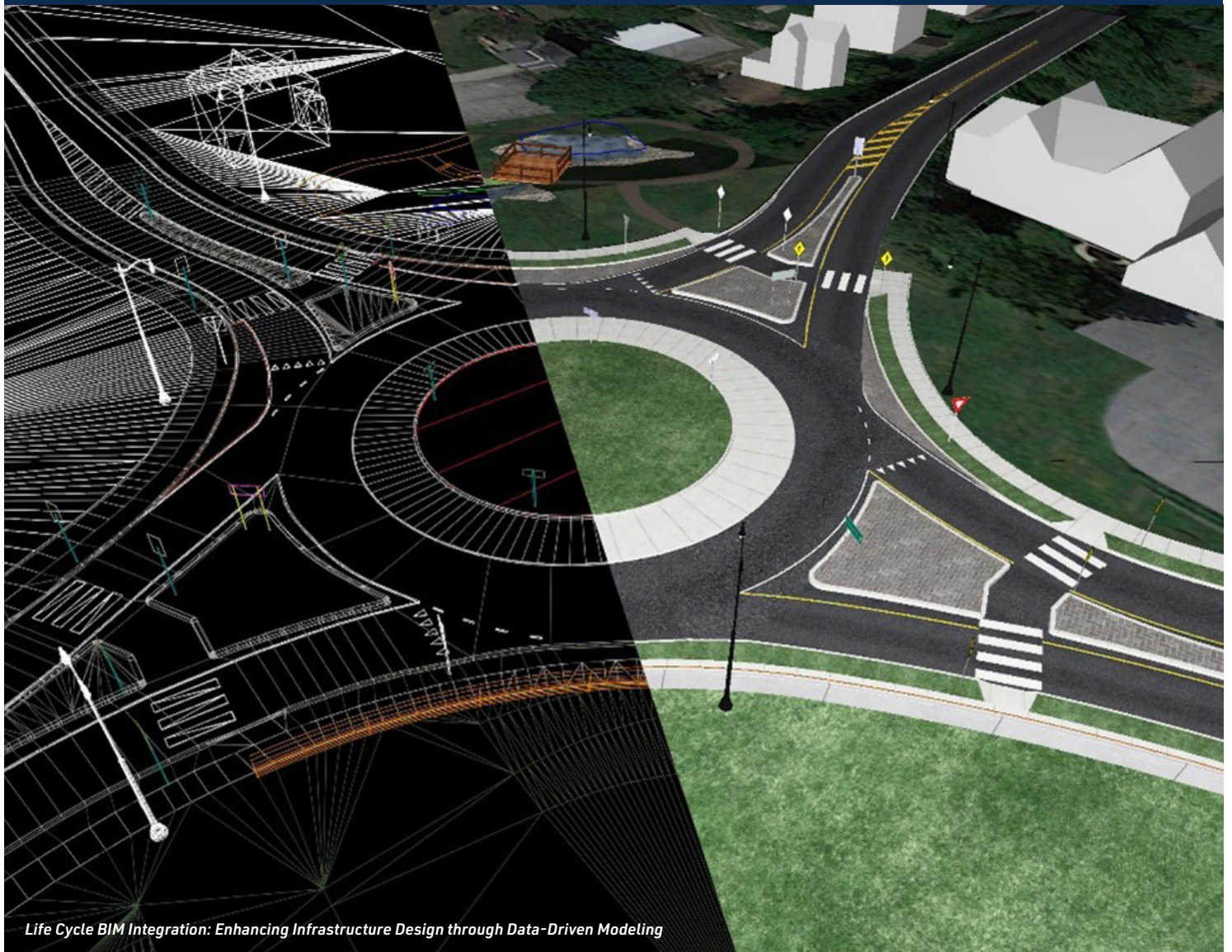
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Iowa DOT I-80/I-380 Flyover Final Bridge Design,
Johnson County, IA

WEEK AT A GLANCE

Sunday, Oct. 5

6 am - 12:30 pm	Sunday Morning Networking
6 am - until	Vendor Data Collection
12 pm - 5 pm	Vendor Set-Up
2 pm - 5 pm	DOT Roundtable Meeting
6 pm - 10 pm	Heepin' it Social - Dinner on Your Own - (Transportation Provided)

Monday, Oct. 6

7:00 am - 8:00 am	Breakfast
8:00 am - 12 pm	General Sessions
12 pm - 1 pm	Lunch
1 pm - 5 pm	General Sessions
6 pm - 9 pm	Highways & HighTyz Welcome Reception - RipTyzd - (Transportation Provided)

Tuesday, Oct. 7

7:00 am - 8:00 am	Breakfast
8:00 am - 12 pm	Technical Sessions
12 pm - 1 pm	Lunch
1 pm - 5 pm	Technical Sessions
5:30 pm - 7:30 pm	"A Taste of South Carolina" Vendor Reception
7:30 pm - 8:30 pm	Nighttime Drone Illumination Demo in Plaza

Wednesday, Oct. 8

7 am - 8 am	Breakfast
8 am - 12 pm	Technical Sessions
12 pm - 1 pm	Lunch
1 pm - 5 pm	Technical Sessions
3:15 pm - 5 pm	Vendor Tear-down
6:15 pm - 10 pm	Banquet and Awards Ceremony - Pirates Voyage - (Transportation Provided)

Thursday, Oct. 9

7am - 8 am	Breakfast
7:30 am - 1 pm	Technology Showcase at Peter Vaught Sr. Boat Landing
8 am - 12 pm	Technical Sessions
12 pm - 12:30 pm	Grab and Go Lunch
1 pm	Eco Tour 1
2:45 pm	Eco Tour 2



TECHNOLOGY SHOWCASE

IHEEP 2025 Technology Showcase

Peter Vaught Sr. Boat Landing – Myrtle Beach

Thursday, October 9 • 8:00 AM – 1:00 PM

Join us for one of the most exciting parts of IHEEP 2025! The Technology Showcase takes you out of the conference hall and into the field, where you can see cutting-edge tools in action, meet with vendors, ask questions, and network with other DOTs about how they utilize technology in their daily processes.

Expect live demonstrations from over 25+ technology vendors for:

- Drones and UAS
- Bathymetric drones, boats, and ROVs
- Mobile LiDAR vans
- GNSS/RTK rovers
- Terrestrial & handheld SLAM scanners
- And construction technology applications!

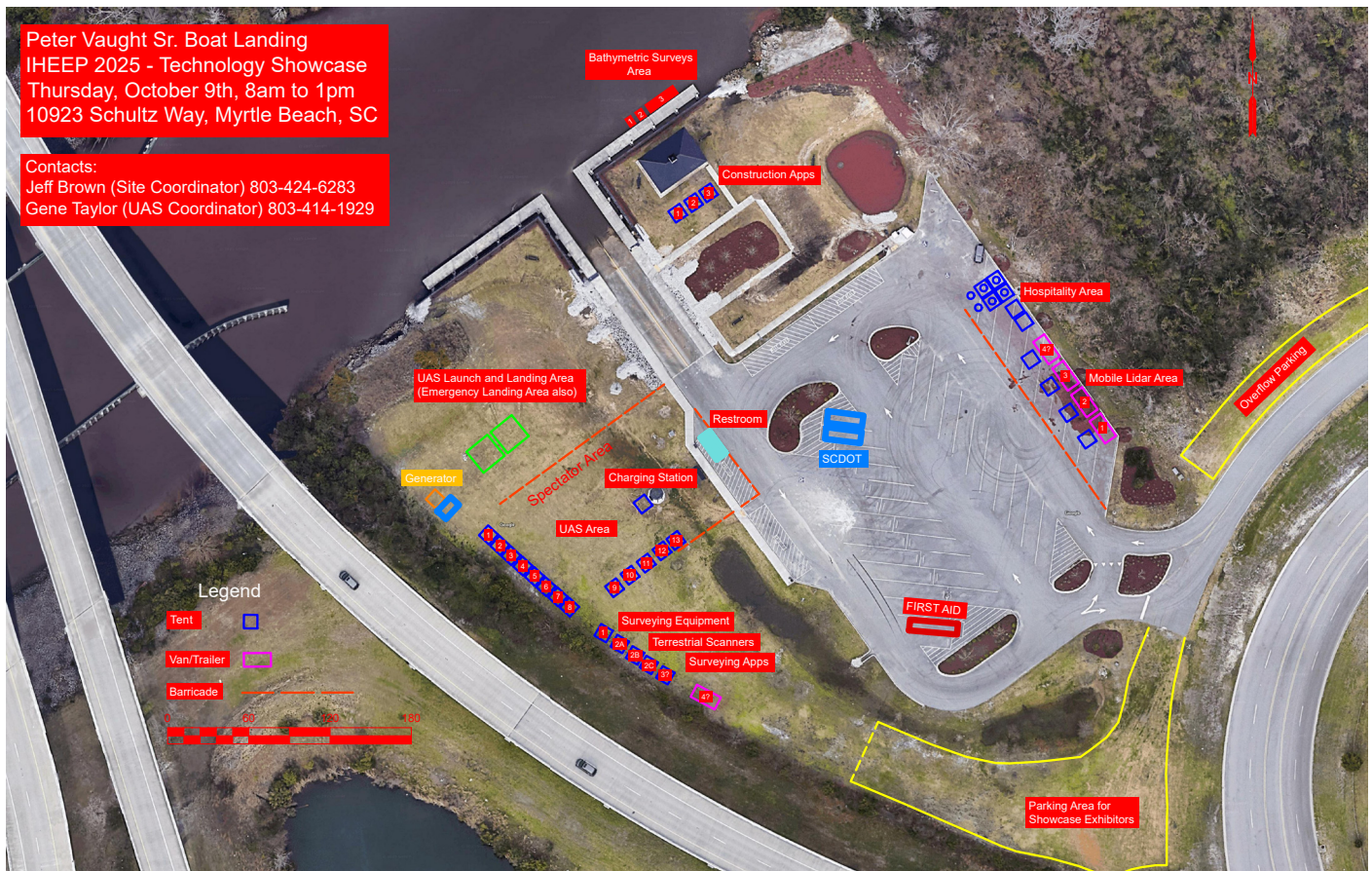
Take this opportunity to explore, connect, and bring back exciting technologies to share in your home state when you return.

Travel & Timing

- Buses depart at 7:30 AM from the Sheraton (seating for 220 on the first run).
- A 56-passenger shuttle will run loops between the hotel each hour for late arrivals and early departures.
- Please plan your check-out and flights accordingly. The hotel will hold your luggage until the afternoon.

Plan to spend the whole morning with us—you won't want to miss a moment of this hands-on experience!

A Chick-fil-A lunch on-site is planned, along with snacks and drinks throughout the day.



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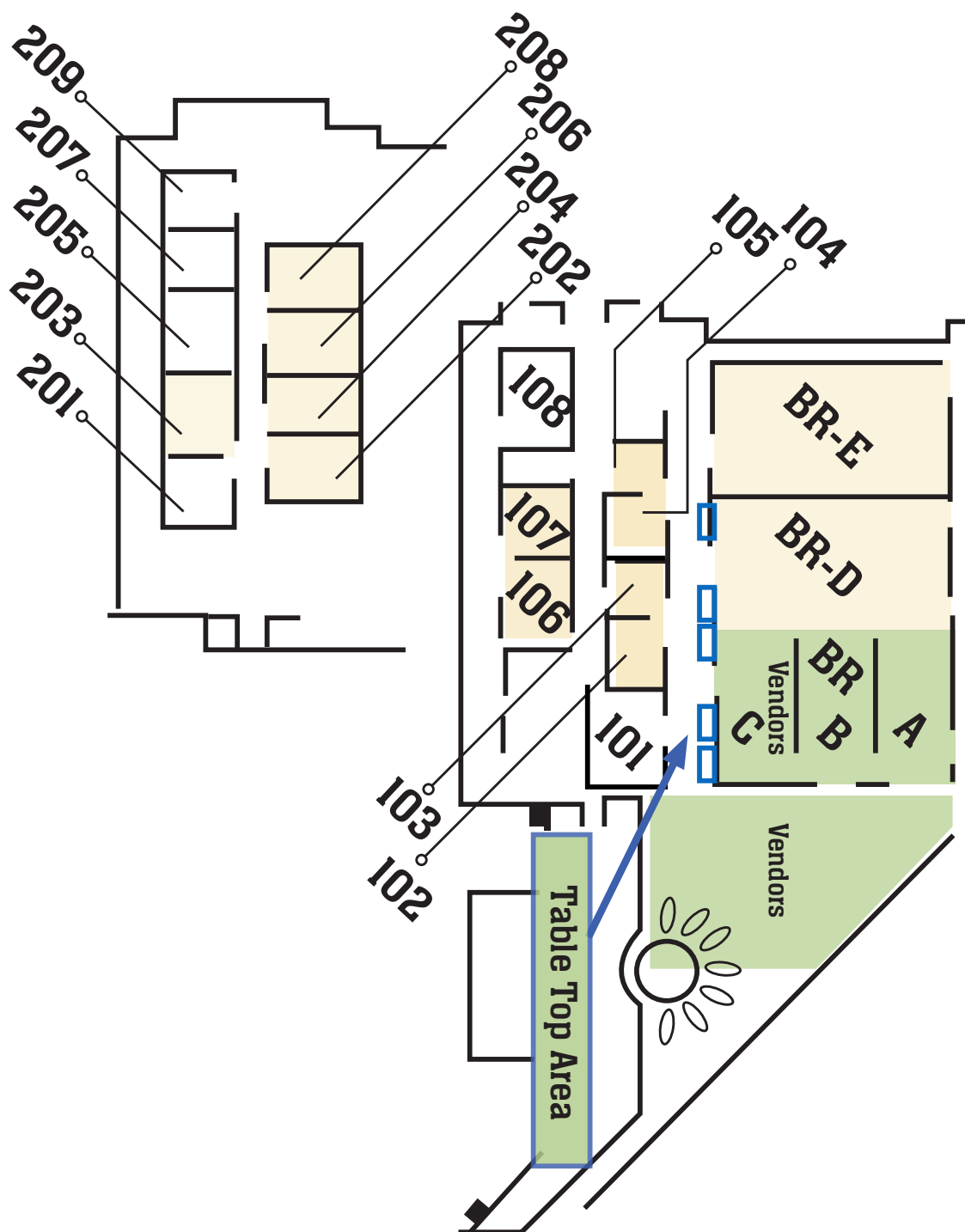
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19. LIDARUSA
20. Foth Infrastructure & Environment
21. Geodin
22. EnvisionCAD
23. Aurigo
24. OnStation
25. IMAGINiT

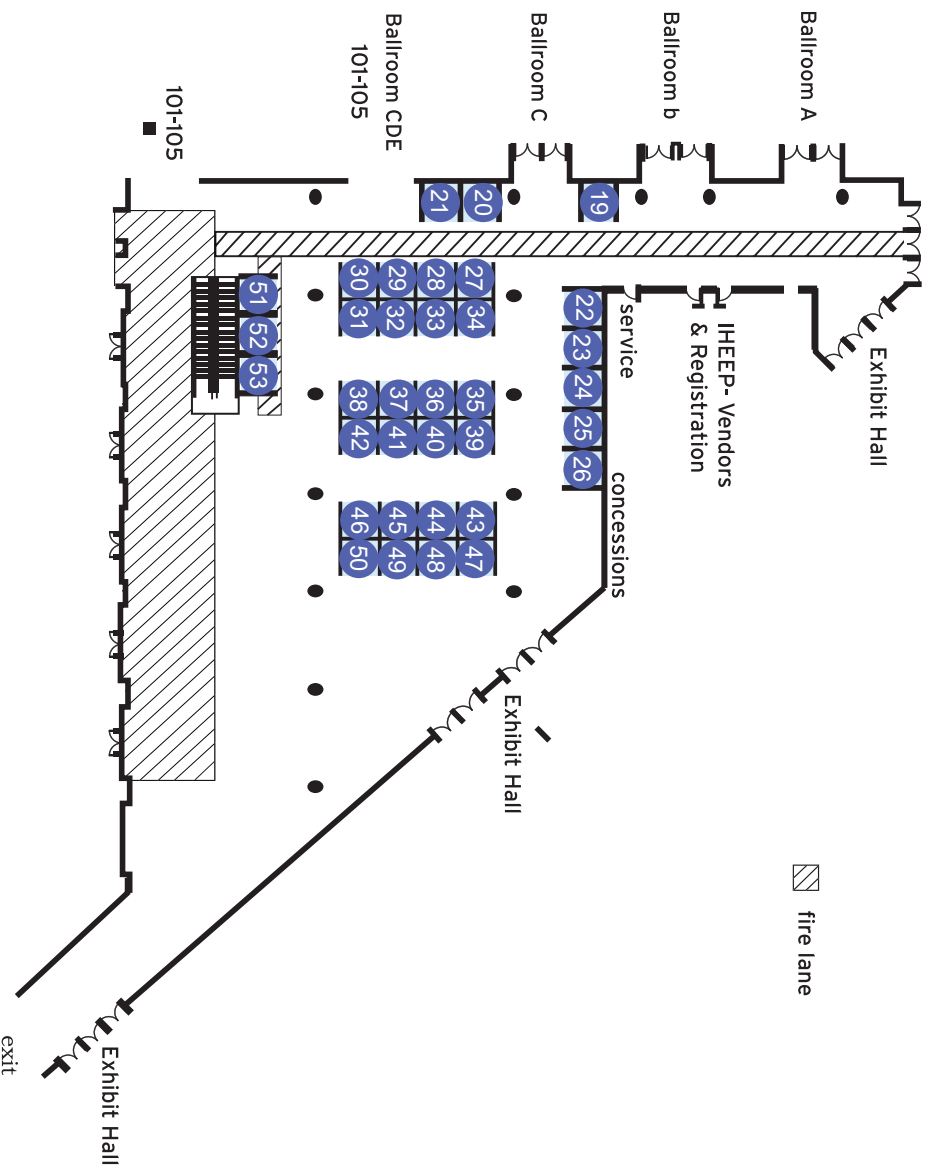
26. Propeller
27. RDO Equipment
28. Skydio
29. ESRI
30. LiveU
31. Pencil 9
32. Armada
33. Censys Technologies

34. OpenBrIM Platform
35. Bluebeam
36. Bluebeam
37. InTerra
38. Fotokite
39. RIEGL USA
40. SAM
41. 4M Analytics

42. WSB
43. Seiler Geospatial
44. Altigen Technologies
45. Dalux
46. Symetri
47. InfoTech
48. BoreDM
49. Wispr

50. Kimley-Horn
51. Datumate
52. GeoCue
53. Pointerra 3D

South Carolina Hall of Fame Prefunction



54. COLSA

Grand Ballroom





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Moderator - Jon Starr, Nebraska Department of Transportation

Moderator - Paul Zytynik, Duncan-Parnell

This session highlights four student-led research projects addressing the evolving landscape of transportation. Topics include AI-powered cybersecurity frameworks for intelligent transport systems, advanced materials to extend pavement life, maintaining a robust internship program, and sustainable mobility solutions that reduce environmental impact and improve access. Together, these projects showcase how emerging professionals are tackling critical challenges in infrastructure, technology, and policy.

Each presentation offers a fresh perspective—from cyber-physical system protection to sustainable infrastructure planning—demonstrating how future transportation challenges are being tackled through interdisciplinary innovation.

Agentic AI-Driven Cyber Risk Resilience in Transportation 5.0



Prashant Vajpayee

University of North Texas

Prashant Vajpayee explores Agentic AI-driven cyber risk resilience in Transportation 5.0. His framework introduces autonomous AI agents that predict, contain, and adapt to cyber threats in intelligent transport systems. By integrating Cyber Value-at-Risk (CVaR) principles, the model enhances cyber resilience in transportation infrastructure.

Antioxidants in Road Engineering: Enhancing the Longevity of Pavements



Ivana Vareskic

TU Wien (Vienna University of Technology)

Ivana Vareskic from TU Wien presents her research on antioxidants in road engineering—specifically the effects of Zinc Diethyldithiocarbamate (ZDC) on slowing bitumen aging. Her findings emphasize the importance of testing antioxidant performance under realistic aging simulations to extend pavement lifespan and reduce maintenance costs.

Interns vs. AI: Why Internships Still Matter

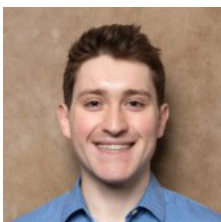


Name: Madison Burlett

University of South Carolina

In today's AI-driven workplace, maintaining a robust internship program is more important than ever. Internships bring fresh perspectives, encourage innovation, and build a pipeline of future talent who are eager to learn and adapt. While AI can streamline tasks, it cannot replace the fresh ideas that young interns can bring to a company. A strong internship program ensures companies remain competitive by cultivating skilled, loyal employees who understand both technology and human dynamics.

Enhancing Highway Construction Safety Training through Context Specific Immersive Virtual Environments



Trevor Neece

University of Pittsburgh

Trevor Neece from the University of Pittsburgh presents Enhancing Highway Construction Safety Training through Context-Specific Immersive Virtual Environments. This work addresses the urgent need to provide construction workers with high-engagement and site-specific educational programs for health and safety training on highway construction sites.



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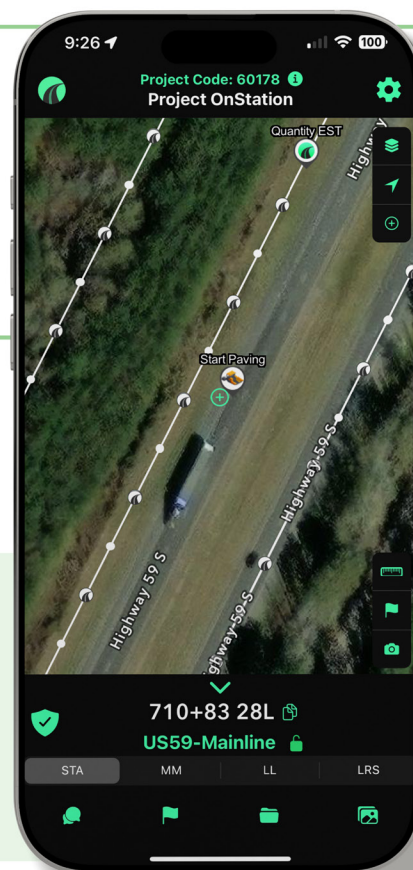
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SUNDAY

SUNDAY, OCT 5, 2025

6:00am - 12:30pm

Morning Networking

Location: Golf or Deep Sea Fishing

6:00am - until

Vendor Data Collection

Location: Boat Landing

12:00pm - 5:00pm

Vendor Set Up

Location: Ballroom ABCD

2:00pm - 5:00pm

DOT Round Tables

Location: Ballroom E

6:00pm - 10:00pm

Heepin' it Social - Dinner On Your Own

Location: Broadway at the Beach



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Sunday, October 5, 2025

2:00 – 5:00 pm

DOT Roundtables

Ballroom

2:00 – 2:15 pm

Welcome to IHEEP 2025

Moderator: Seth Lown, South Carolina Department of Transportation

2:15 pm – 3:00 pm

Cadd & Emerging Technologies

Moderators: Seth Lown, South Carolina Department of Transportation

Elaine Richard, *Connecticut Department of Transportation*

Thomas Hamski, *Iowa Department of Transportation*

3:00 – 3:45 pm

Digital Delivery

Moderators:

Adrian Martinez, *Texas Department of Transportation*

Allen Melley, *Pennsylvania Department of Transportation*

Katie Brown, *Oklahoma Department of Transportation*

3:45 – 5:00 pm

Construction Technology

Moderators:

Aaron Chamberlin, *California Department of Transportation*

Jeff Brown, *South Carolina Department of Transportation*

Andrew Pangallo, *Indiana Department of Transportation*

Bryan Edwards, *North Carolina Department of Transportation*

5:00 – 5:30 pm

Room 202-204

Educator Student Program Meeting

Jon Starr, *Nebraska Department of Transportation*

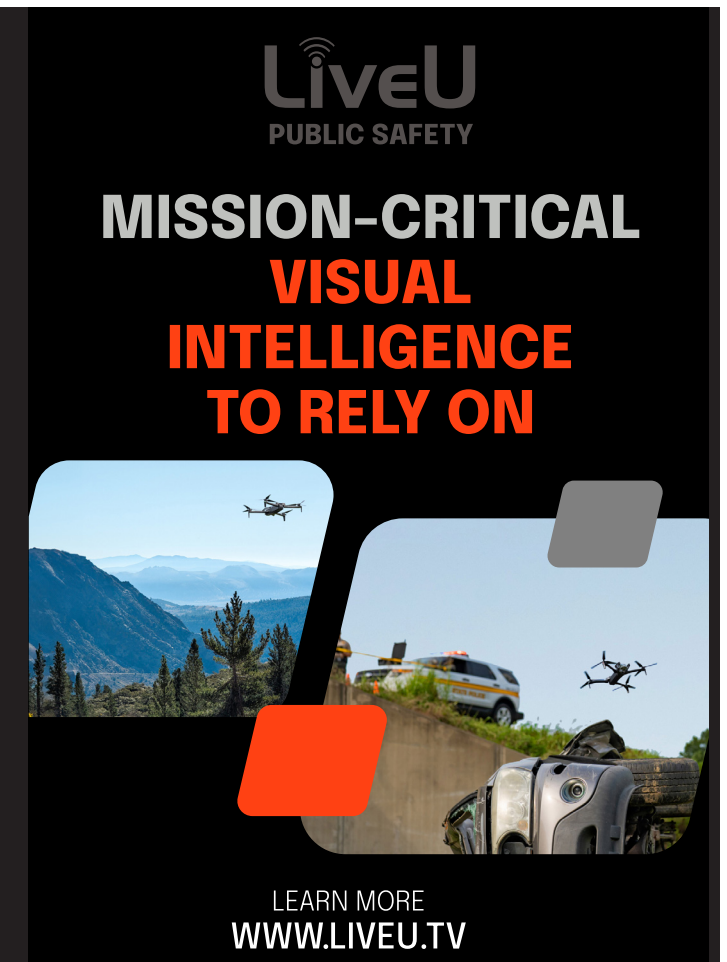
Paul Zytnik, *ESP Sponsor – Duncan-Parnell*

6:00 – 10:00 pm

HEEPin' It Social

A relaxing evening of venue hopping, mingling, and making connections before the week kicks off. Broadway at the Beach is a shopping center and entertainment complex located in the heart of Myrtle Beach. It features over 20 restaurants and over 100 specialty shops as well as local attractions. Spend the day exploring; there is something here for everyone.

Shuttles available to take you to Broadway at the Beach will run on a continuous loop every 5 minutes starting at 5:45 pm with the last shuttle departing from Broadway to return to the hotel at 10:00pm.



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MONDAY, OCT 6, 2025

7:00am - 8:00am

BREAKFAST

8:00am - 9:15am

SCDOT & IHEEP Welcome & Plenary Session
Location: Grand Ballroom

9:15am - 9:30am

BREAK

9:30am - 12:00pm

DOT Roll Call, Vendor Recognition, Area V Report
Location: Grand Ballroom

12:00pm - 1:00pm

Lunch
Location: Grand Ballroom

2:45pm - 3:00pm

BREAK

3:00pm - 5:00pm

ESP Student Presentations
Location: Room 202/204

UAS - DOT Roundtables
Location: Room 206/208

Cadd Workshop - Item Types
Location: Room 102/103

Digital Workflow from Design to Construction
Location: Room 106/107

6:00pm - 9:00pm

Highway & HighTydz
Location: RipTydz

7:00 am - 8:00 am:

Breakfast

8:00 - 9:15 AM

Opening Session

Ballroom

Moderator: Iris Neal, 2025 IHEEP President

Welcome to South Carolina

Secretary Justin Powell, South Carolina Department of Transportation

Moderator: Parth Tikiwala, Bluebeam

Keynote: Plenary Session

Kelly Barber, Pennsylvania Department of Transportation

Michael Warren, AECOM

9:15 am – 9:30 am

Break

9:30 – 12:00 PM

Roll Call and Vendor Recognition

Area 1 Roll Call and Premium Sponsor Recognition

Bill Harrison, Pennsylvania Department of Transportation

Area 2 Roll Call and Diamond Sponsor Recognition

Rande Robinson, North Carolina Department of Transportation

Area 3 Roll Call and Platinum Sponsor Recognition

Katie Brown, Oklahoma Department of Transportation

Area 4 Roll Call and Gold Sponsor Recognition

Aaron Chamberlin, California Department of Transportation

Area 5 Roll Call, Report and Transportation/Charging Station Sponsor Recognition

Jon Starr, Nebraska Department of Transportation

Ivica Jujnović, Ministry of the Sea, Transport and Infrastructure

ESP Program Introduction of Students

Paul Zytnik, Duncan-Parnell

Outreach Report and Item Sponsors, Silver, Bronze and Booth Recognition

Vern Danforth, EnvisionCAD

12:00 – 12:55 PM

Lunch

1:00 - 2:45 PM

Joint Resiliency Presentation

Ballroom

Moderator: Roberto Ruiz, South Carolina Department of Transportation

Christopher Todd, AIRT

Ryan Marlow, Alaska Department of Transportation

Aaron Chamberlin, California Department of Transportation

Nathan Moneyham, North Carolina Department of Transportation

Ricardo Romero Ramirez, Puerto Rico

Maria Arroyo Caraballo, Puerto Rico

Olivia Spencer, Clemson University

Roberto Ruiz, South Carolina Department of Transportation

2:45 - 3:00 PM

Break with Vendors

3:00 - 5:00 PM

Track 1: ESP Student Presentations

Room 202-204

Moderator: Jon Starr, Nebraska Department of Transportation

Moderator: Paul Zytnik, Duncan-Parnell

Agentic AI-Driven Cyber Risk Resilience in Transportation 5.0

Prashant Vajpayee, University of North Texas

Antioxidants in Road Engineering: Enhancing the Longevity of Pavements

Ivana Vareskic, TU Wien (Vienna University of Technology)

Interns vs. AI: Why Internships Still Matter

Madison Burlett, University of South Carolina

Enhancing Highway Construction Safety Training through Context Specific Immersive Virtual Environments

Trevor Neece, University of Pittsburgh

2:45 – 5:00 PM

Track 2: UAS Presentations

Room 206-208

Moderator: J.D. D'Arville, Alabama Department of Transportation

Pooled Fund

Aaron Chamberlin, *California Department of Transportation*

Ryan Marlow, *Alaska Department of Transportation*

UAS Roundtable

State DOTs

3:00 – 5:00 PM

Track 3: International Society for Intelligent Construction - Digital Workflow from Design to Construction

Room 106-107

Moderator: Dr. George Chang, The Transtec Group, A Terracon Company

Introduction and Overview

Dr. George Chang, *The Transtec Group, A Terracon Company*

Milling and Pavement Equipment and the use of 3D Models

Laikram Narsingh, *John Deer Wirtgen Group*

Jim Preston, *Topcon Positioning Systems*

Geometric and Material As-Built Data Collected by Road Construction Equipment

Laikram Narsingh, *John Deer Wirtgen Group*

Jim Preston, *Topcon Positioning Systems*

Living Models in Asset and Pavement Management Systems

Chuck Hixon, *Digital Construction Works, Inc.*

Tim Kowalski, *Wirtgen America Inc.*

Agency's Perspective

Rebecca Embacher, *Minnesota Department of Transportation*

Contractor's Perspective on 3D Construction and Open Discussion

Scott Fernald, *Granite Construction*

Dr. George Chang, *The Transtec Group, A Terracon Company*

Track 4: CADD Item Types Workshop: Lessons Learned and Best Practices

Room 102-103

Moderator: Elaine Richard, Connecticut Department of Transportation

Moderator: Luke Arnold, Michigan Department of Transportation

Moderator: Seth Lown, South Carolina Department of Transportation

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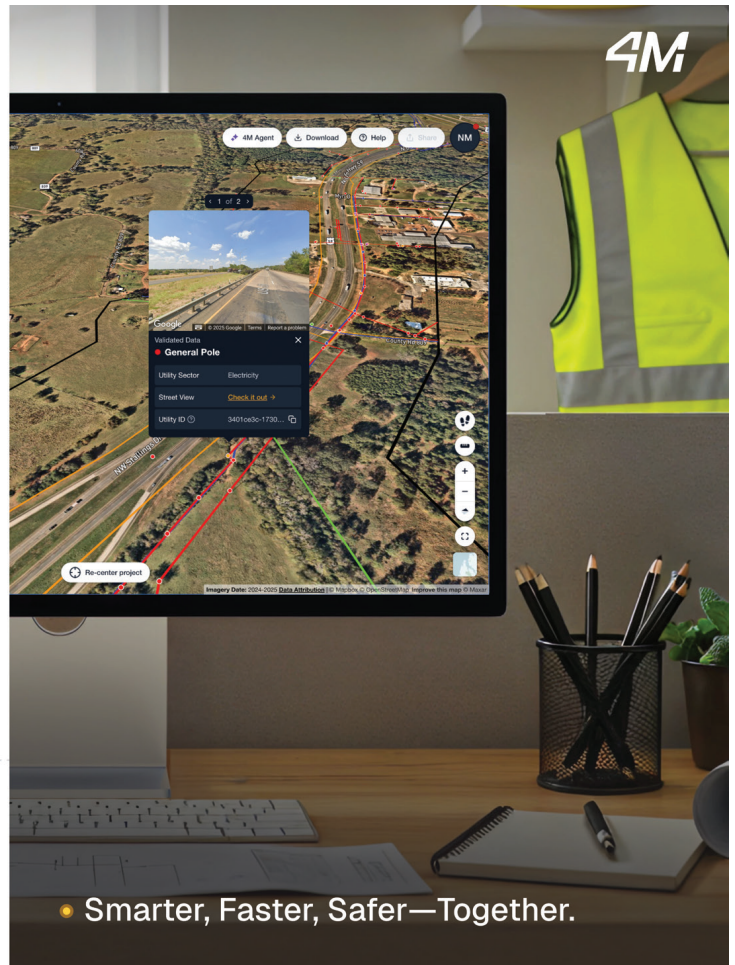
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discussion on *"Bridging
Platforms and Standards"*
Thurs 10:15AM Room 102-103.

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8:00 - 9:45 AM

Track 1: Digital Delivery

Room 202-204

Moderator: Eric Gates, EnvisionCAD

A Peek Behind the Curtain: How Digital Workflows Change How We Do Business for the Better

Andrew Pangallo, *Indiana Department of Transportation*

Nathan Goins, *HNTB*

Russ Tamblyn, *Trimble*

Kourosh Langari, *HNTB*

Building a Plan for Establishing A Digital Delivery Program

Keith King, *ESRI*

Joseph Volpato, *New Mexico Department of Transportation*

Track 2: UAS Welcome and Updates

Room 206-208

Moderator: J.D. D'Arville, Alabama Department of Transportation

IHEEP UAS Welcome

J.D. D'Arville, *Alabama Department of Transportation*

FAA Industry Update on UAS

Kerry Fleming, *DRONERESPONDERS*

Michael O'Shea, *DRONERESPONDERS*

Panel Discussion: The Importance of Training for BVLOS RPAS Operations

Aaron Chamberlin, *California Department of Transportation*

Chris Grazioso, *Massachusetts Department of Transportation*

Josh Olds, *USI*

Rob Knochenhauer, *Censys*

Track 3: State Specific

Room 106-107

Moderator: Mano Morales, Symetri

TxDOT: Developing 4D Models in Synchro Control for the Austin I-35 CapEx Project

Kevin Gilson, *WSP*

Utah DOT: Digital Quality Management for Design Build

Charles Hill, *Utah Department of Transportation*

Nathan Humphrey, *Horrocks Engineers*

Montana DOT: Cougar Creek – 7mi N West Yellowstone Bridge Replacement Project

Patrick Lane, *Montana Department of Transportation*

Josh Springer, *HDR*

Track 4: Open Data (CDE)

Room 102-103

Moderator: Mark Mergenschroer, Autodesk

Data Transfer File Types within Digital Delivery Software Applications and other Business Data Enhancements

Michael Warren, *AECOM*

Bill Pratt, *AECOM*

Automating Civil Schema Data in ProjectWise

Mike Dillner, *Kansas Department of Transportation*

Johnathan Mushock, *Kansas Department of Transportation*

Open Data for Open Industry Solutions

Steve Brown, *Civil Engineer*

Track 5: MALD / Modeling (8:00 - 9:45 AM)

Room 104-105

Moderator: Jay Young, IMAGINiT

Trailblazing Ohio DOT's Digital Project Delivery with a MALD Pilot Project

Matt Eiben, *Ohio Department of Transportation*

Joe Brenner, *Michael Baker International*

Rick Chaffin, *Kokosing Construction Company*

Leveraging MALD Contracts in Construction with 3D Models

Nick Laga, *Illinois Tollway GEC/WSP*

Vaughn Whitaker, *WSP*

Making the Transition to Model Based Design

9:00 - 10:00 AM

Boardroom Meeting

Host: Michael Baker International

9:45 - 10:15 AM

Break with Vendors

10:15 - 11:55 AM

Track 1: Digital Delivery

Room 202-204

Moderator: John Reese, HDR

TxDOT DDP Program Update: Part 1 - Overall Program Update

Jacob Tambunga, *Texas Department of Transportation*

Nicole Williams, *Kimley-Horn*

TxDOT DDP Program Update: Part 2 - Technology Enhancements

Adrian Martinez, *Texas Department of Transportation*

Christopher Tipa, *Kimley-Horn*

TxDOT DDP Program Update: Part 3 - TxDOT's First Pilot Project - FM 1977

Taylor Mansfield, *Texas Department of Transportation*

Casey Schneider, *Kimley-Horn*

Track 2: UAS Welcome and Updates (10:15 – 11:55 AM)

Room 206-208

Scaling Shielded UAS Operations: Alaska DOT&PF's SOAR SMART Grant for Remote Infrastructure Inspection

Aaron Chamberlin, *California Department of Transportation*

Ryan Marlow, *Alaska Department of Transportation*

The Benefits of Non-Profit State Coordination Groups

Christopher Todd, *AIRT*

How Several DOTs are Benefiting from UAS

Aaron Chamberlin, *California Department of Transportation*

Matt Isenbarger, *FreeFly*

Advanced AI Solutions for Airport Inspections

Ryan Traversa, *Tennessee Department of Transportation*

Russ Ellis, *gNext*

Track 3: Survey and Construction

Room 106-107

Moderator: Mario Morales, Symetri

Development of a Surveying and Mapping Guided for Transportation Projects

Michael Olsen, *Oregon State University*

Digital, But Dependable, KYTC's Efforts to Ensure Model Accuracy Before Construction

Matt Sipes, *Kentucky Transportation Cabinet*

John Wells, *Kentucky Transportation Cabinet*

From Design to Dirt: Maximizing the Value of 3D Models in KYTC's Highway Construction

Matt Sipes, *Kentucky Transportation Cabinet*

John Wells, *Kentucky Transportation Cabinet*

Track 4: Bentley / Drainage

Room 102-103

Moderator: Souvik Raha, Bentley Systems

PennDOT's Approach for a Smart Infrastructure Solution: Modeling Drainage & Utilities in OpenRoads Designer

Scott McMasters, *Pennsylvania Department of Transportation*

Kamakshi Sistla Sai, *HDR*

Inside the Box: Parametric Modeling of Maine's Box Culverts

Jonathan French, *Maine Department of Transportation*

Bob Mecham, *EnvisionCAD*

Workspace Turbo Chargers: Utilities, Title Block Editor and ProjectWise

Jon Blanchard, *Georgia Department of Transportation*

Mark Stefanchuk, *Phocaz, Inc*

Track 5: MALD / IFC / BIM

Room 104-105

Moderator: Ben Penzick, Dalux

How We Actually Delivered the First IFC Bridge Project in the US

Cagin Yakar, *OpenBrIM*

Joe Brenner, *Michael Baker International*

Hanjin Hu, *Michael Baker International*

Michigan DOT – IFC and BIM Research Project

Luke Arnold, *Michigan Department of Transportation*

Kristen Cetin, *Michigan State University*

Taylor Stenzel, *Michigan State University*

3R Reimagined: From Pavement to Pixels- Digital Delivery at NDOT

Jon Starr, *Nebraska Department of Transportation*

Drew Wilson, *Nebraska Department of Transportation*

10:15 - 11:55 AM

Boardroom Meeting

Host: InfoTech

Title: The Digital Thread: Integrating Real Time Project Data from Design to Delivery

Abstract: This presentation, a collaborative effort with Infotech, Esri, WSB, Bentley and 4M Analytics, explores the transformative power of integrated data, including AI identified utility objects enhanced with location intelligence as work progresses from the design phase through construction. By creating a continuous 'digital thread' of information, this approach provides significant benefits in areas such as utility moves, pay item management, quantity take-off efficiencies, proactive clash detection, dynamic schedule planning and tracking actual progress against the schedule. We will demonstrate how leveraging pay item data creates a real-time view of construction progress by item type, enabling more agile project management and decision-making. This integrated, data-driven approach ultimately empowers owners to greatly reduce risks pre-construction as well as manage risks during construction. It also provides their contractor partners with a more integrated and automated workflow for managing quantities during the project and allows them to track their progress with the schedule and phasing of the construction work.

12:00 – 12:55 PM

Lunch

Lunch Keynote: Winning the War on Productivity

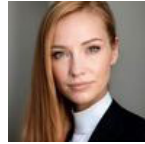
The civil infrastructure industry is facing a workforce reckoning. With an aging workforce, rising costs, shrinking talent pipelines, and the rapid pace of digital transformation, agencies are confronting a widening gap between project demands and workforce capabilities.

This session will examine how agencies can strategically prepare for the future of work through digital readiness and workforce innovation. Framed around the real-world pressures state DOTs face—labor shortages, shifting technologies, and increasing delivery expectations—we'll share how leading states are taking action to future-proof their teams.

A central focus will be the potential development of a **national micro-credential in Digital Construction Administration and BIM Workflows**—a modular training initiative co-developed with DOTs, universities, and industry leaders. Presenters will share the vision, early use cases, academic QA models, and Transportation Pooled Fund opportunities for collaboration.

More than a training solution, the credential is a lever for modern talent strategies—aligning with FHWA's digital delivery goals and the evolving civil tech ecosystem.

Designed for transportation leaders, workforce managers, and technical professionals, this session will provide practical strategies to upskill staff, attract next-generation talent, and accelerate digital transformation across the agency.



Tara Blythe
Chief People Officer
InfoTech

Tara Blythe is Chief People Officer at InfoTech, a software company connecting people and technology across the infrastructure construction industry. She leads organizational development, people operations, innovation, and communications—bringing a sharp focus to where people and technology intersect to drive results.

With 20+ years of leadership experience in organizational strategy and change transformation, Tara is a champion for future-ready workplaces. She advocates for integrating advanced technologies, including generative AI, into leadership and talent practices to build adaptability, efficiency, and long-term impact.

An accomplished facilitator, curriculum designer, and executive coach, Tara has a proven record of delivering transformative outcomes and developing inclusive, high-performing teams. She serves as adjunct faculty in Executive Education at the University of Florida, pairing academic rigor with real-world application.

As CPO, Tara believes the connection between people and purpose is the most powerful force behind organizational success. She is passionate about building cultures where people thrive and considers it a privilege to help make InfoTech an extraordinary place to work and grow.



Michael Pearson
Digital Delivery Program Manager
Oklahoma Department of Transportation

As the Digital Delivery Program Manager at OKDOT, I lead the agency's efforts in implementing Building Information Modeling for Infrastructure (BIM4I) and advancing digital delivery strategies that improve efficiency, collaboration, and data governance. With over 24 years of experience in transportation design, management, and digital strategy, I am passionate about integrating emerging technologies to enhance project delivery and streamline workflows.

I specialize in promoting openBIM standards, ensuring that OKDOT remains at the forefront of interoperability and digital transformation. By working with industry leaders, technology partners, and internal teams, I help bridge the gap between traditional transportation workflows and the next generation of digital infrastructure management. My role includes overseeing the adoption of new tools, refining data governance policies, and fostering collaboration across public and private sectors to drive sustainable, innovative, and cost-effective solutions.

Beyond my professional expertise, I enjoy engaging with others in the industry, learning new perspectives, and sharing insights on how digital transformation is shaping the future of transportation. Whether you want to discuss BIM, openBIM, or the latest innovations in digital project delivery—or just talk sports—let's connect!

1:00 - 2:40 PM

Track 1: Artificial Intelligence

Room 202-204

Moderator: Marvin Dawson, South Carolina Department of Transportation

The Future is Here: Unleashing the Power of the 'One Model'

Aaron Chamberlin, *HEEP Area 4 Director*

Ratnakar Garikipati, *LeapThought*

Road and Parking Feature Extraction from Images and Lidar using AI

Bruce Carlson, *Carlson Software, Inc.*

Timothy Robinson, *Palmer Engineering*

Survey to Rebuild: LiDAR Surveys Post-Helene Begin the Journey to Rebuild NCDOT Roads

Seth Swaim, *Withers & Ravenel*

Track 2: UAS Presentations

Room 206-208

The Calm Before the Storm: Streamlining Drone Workflow for Emergency Response

Ryan Marlow, *Alaska Department of Transportation*

Alex Joyce, *Live U*

Scott Cullinane, *Skydio*

Nebraska DOT's UAS Program

Shawn Jording, *Nebraska Department of Transportation*

Proving ROI with Drones: How KYTC is Saving Millions

Luke Turner, *Kentucky Transportation Cabinet*

Scott Cullinane, *Skydio*

Jacob Mutchler-Brown, *Propeller*

Ohio UAS Center Overview

Jamie Davis, *Ohio Department of Transportation*

Track 3: Construction and Digital As-Builts

Room 106-107

Moderator: Chris Garafola, 4M Analytics

Developing Better Models with Construction and Machine Control in Mind

Nicole Williams, *Kimley-Horn*

Casey Schneider, *Kimley-Horn*

Joshua Sletten, *Utah Department of Transportation*

Advanced Digital Delivery: Piloting Geospatial Construction Documents to Streamline As-Builts and Asset Integration

Nick Smith, *WSP*

Vaughn Whitaker, *WSP*

A Radical Approach to Scalable Digital As-Builts and Safer Smarter Delivery

Mark Counts, *California Department of Transportation*

Max Leung, *MACH9*

Track 4: 3D Model Viewer Workshop

Room 102-103

Moderator: Allen Melley, Pennsylvania Department of Transportation

Shaping the Future: Collaborative Insights on 3D Model Viewers

Allen Melley, *Pennsylvania Department of Transportation*

Jennifer Steen, *HDR*

Kevin Martin, *HDR*

Roy Sturgill, *Iowa State University*

Track 5: BIM / CADD / GIS

Room 104-105

Moderator: Landon Messal, SiteMarker

Use of Computer Vision and AI Techniques in Extracting Real World BIM Data

Karen Giese, *Transoft Solutions, Inc.*

Tapping the Pipeline: How Versatile CADD to GIS Tools Can Meet Data Needs Across the Enterprise

Peter Lemack, *Sanborn*

Bradley Adams, *Sanborn*

Enhancing Transportation Workflows through BIM and GIS Integrations at the Project Level

Jeff Frye, *HDR*

Moshik Mah, *Los Angeles County Metropolitan Transportation Authority*

1:00 - 2:00 PM

Boardroom Meeting

Host: Bentley Systems

2:00 - 3:00 PM

Boardroom Meeting

Host: 4M Analytics and Kimley-Horn

Title: Build Better Together: Smarter, faster, safer infrastructure with Utility AI

America is on the verge of a \$10 trillion infrastructure boom. From auto factories and chip plants to massive AI data centers, the demand for new roads, bridges, transmission lines, fiber, and water and wastewater infrastructure is unprecedented. Yet today's methods can't keep pace with tomorrow's demands. Every project in the right-of-way involves dozens of stakeholders, but misalignment is the norm. Teams work in siloes and rely on disconnected tools and inaccurate and incomplete utility data, leading to slow, reactive coordination and increased risk.

This session will explore how the 4M Utility AI Mapping Platform helps the industry build better together by delivering instant, reliable data all in one map—empowering teams to plan and deliver smarter, faster, safer infrastructure. You will also hear real-world examples of how Kimley-Horn uses 4M's data to improve utility investigations early in the planning phase and drive more efficient project delivery.

Speaker: David Finucane, Enterprise Account Executive, 4M

David Finucane is an Enterprise Account Executive at 4M Analytics, bringing over 7 years of experience in the construction industry.

Speaker: Natalie Parks, Senior Project Manager, Kimley-Horn

Natalie Parks is a Senior Project Manager with Kimley-Horn and Associates, focusing on utility coordination and subsurface utility engineering. She is the past-chair of UESI's Utility Risk Management Division and currently sits on UESI's Board of Governors. She is a member of the committees to revise ASCE 38 and 75, standards for utility investigation and utility data collection.

2:45 - 3:15 PM

Break with Vendors

3:15 - 4:55 PM

Track 1: AI / Data Management

Room 202-204

Moderator: Chaz Ross-Munro, Datumate

Data Fusion

Derrick Barnhill, Woolpert, Inc.

ODOT's Bridge to the Future: AI, ML, and GIS for Efficient & Scalable Asset Data Analytics

Errick Gray, AtkinsRealis

Practical AI-Highway Inspection in Digital Transformation

Chris France, AECOM

Track 2: UAS Presentations

Room 206-208

Panel Discussion: Advanced Digital Solutions to Support Effective Bridge Inspection

J.D. D'Arville, Alabama Department of Transportation

Jon Starr, Nebraska Department of Transportation

Bret Gardner, gNext

Scott Cullinane, Skydio

MassDOT Aeronautics Data Hub

Chris Grazioso, Massachusetts Department of Transportation

Sinan Abood, Massachusetts Department of Transportation

Baselining the New Bridge Condition and Monitoring the Existing Bridges Using Multi-Layered UAV-based Methodology and Automated Deterioration Mapping

Cedric Wilkinson, Iowa Department of Transportation

Harsh Rathod, Niricson

3:15 - 4:20 PM

Track 3: Cadd Standards / Open Standards

Room 106-107

Moderator: Brittany Ainsley, Arkance

Open by Design: How PennDOT is Evolving Standards for a Broader Project Community

Kelly Barber, Pennsylvania Department of Transportation

Stacey Morykin, Autodesk

Design Software Standards Integration at Wisconsin DOT

Steve Popke, Wisconsin Department of Transportation

Eric Gates, EnvisionCAD

Track 4: Bridge / Construction

Room 102-103

Moderator: Timothy Robinson, Palmer Engineering

Precise Storm Sewer Design with IFC File Input/Output based on DOT Inlet Structure Libraries and FHWA Design Parameters

Bruce Carlson, Carlson Software, Inc.

Track 5: BIM / CADD / GIS)

Room 104-105

Moderator: Daniel Anderson, COLSA

Smarter, Faster, Connected: End-to-End Digital Delivery for Precast Girder Bridges

Jan Osterz, ALLPLAN

From Guesswork to Ground Truth: How DOTs Are Rethinking Stockpile Measurement

David Boardman, Stockpile Reports

Tuesday, October 7, 2025

5:30 – 7:30 PM

"A Taste of South Carolina" - Vendor Reception - Grand Ballroom and Hall of Fame

7:30 PM – 8:30 PM

Night Illumination Drone Demo Featuring Pegapod and FreeFly in parking lot

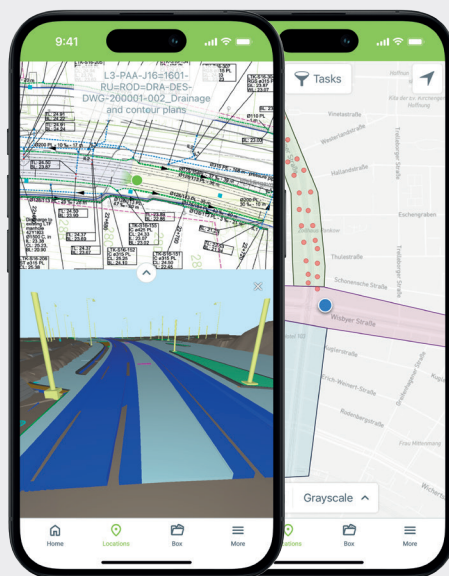


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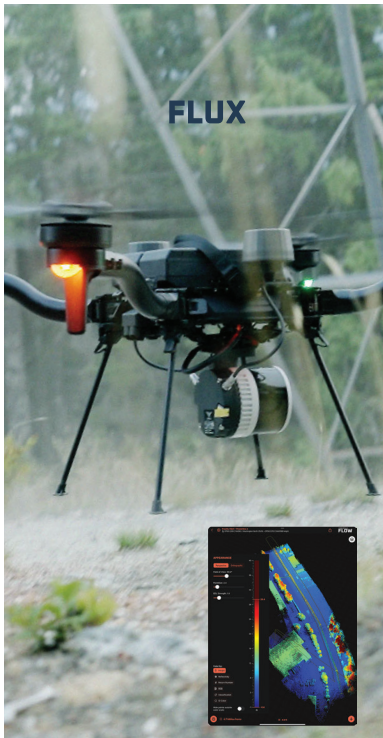
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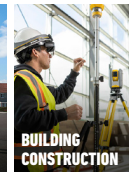
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TUESDAY, OCTOBER 7TH: 11:35 AM
Advanced AI Solutions for Airport Inspections



TUESDAY, OCTOBER 7TH: 3:15 PM
Panel Discussion:
Advanced Digital Solutions to Support Effective Bridge Inspection



gnextlabs.com

7:00 am - 8:00 am

Breakfast

8:00 - 9:45 AM

Track 1: Digital Delivery

Room 202-204

Moderator: Robert Cooney, eVision Partners

Contractor Input in Digital Delivery at Vermont

Jeff Bachiochi, VHB

Digital Delivery Journey: A Collaborative Approach to Modernizing Project Delivery

Michael Pearson, Oklahoma Department of Transportation

Advancing Digital Delivery in Indiana through Partnership

Andrew Pangallo, Indiana Department of Transportation

Tim Haney, Parsons

Track 2: UAS Presentations

Room 206-208

Implementing eVTOL Fixed-Wing sUAS Technology to Improve Roadway Data Acquisition

Sergio Roman, Texas Department of Transportation

Austin Rains, Frontier Precision

Advancing Digital Delivery: How Iowa DOT is unifying GIS and Survey Data with Propeller

Cedric Wilkinson, Iowa Department of Transportation

Jacob Mutchler-Brown, Propeller

Thermal Scanning of Bridge Decks: WisDOT Pilot Study

Steve Doocy, Wisconsin Department of Transportation

Wingtra's End-to-End Aerial Insights Solution

Ryan Traversa, Tennessee Department of Transportation

Benton Szejka, Wingtra

Track 3: Mobile Lidar / Data Management

Room 106-107

Moderator: Jim Preston, Topcon Positioning Systems

Merging of Data from Multiple Acquisition Platforms – Technology and Best Practices for Design Surveys in Transportation

Allen Brock, AECOM

Advancing Pavement Assessment and Precision Repair through Mobile Mapping and Machine Learning

Kenneth Sutterfield, California Department of Transportation

Khrystyna Bezborodova, Trimble

Leveraging LIDAR for Improved Design and Roadway Reconstruction

Jim Preston, Topcon Positioning Systems

Justin Thompson, Topcon Positioning Systems

Trey Cox, Banks Construction

Track 4: SUE / Utilities

Room 102-103

Moderator: Mark Mergenschroer, Autodesk

Digital Delivery at Ground Level – Building the Foundation for the Future

Michael Brandt, New Mexico Department of Transportation

Leon Nafus, WSP

Taming the Wild, Wild West – CDOT's Evolving Approach to SUE Modeling

Rob Martindale, Colorado Department of Transportation

Steven Litzau, EnvisionCAD

Harmonizing ASCE 38 & 75 Standards for Lifecycle Driven SUE and Utility As-Built

Dan Colby, UMSI

Track 5: Open Data (CDE)

Room 104-105

Moderator: Tim Pratt, Aurigo

From Model to Field: Leveraging OpenBIM, IFC and Open Common Data Exchange (CDX)

Todd Sutton, Zachry Corporation

Advancing IFC Integration in Construction: Iowa DOT's Black Hawk Bridge Pilot

Thomas Hamski, Iowa Department of Transportation

Allie Walters, HNTB

Scott Lecher, HNTB

3D Model Management for Transportation Projects: Federating Data from Different Softwares

Michael Warren, AECOM

Nicholas Becker, AECOM

8:00 - 9:00 AM

Boardroom Meeting

Host: Datumate

9:00 - 10:00 AM

Boardroom Meeting

Host: SpaceX

DOT by invite only – closed meeting

9:45 - 10:15 AM

Break with Vendors

10:15 - 11:55 AM

Track 1: MALD Construction Panel

Room 202-204

Moderator: Nathan Wood, Construction Progress Coalition

Follow the Money: Advancing Model as Legal Document – a Construction Panel

Todd Sutton, *Zachry Construction Corporation*

Corey Johnson, *WSP*

Connor Christian, *Kiewit*

Mark Goldman, *ESRI*

Dixon Wright, *SRC Digital Insurance Services*

Track 2: UAS Presentations

Room 206-208

Graffiti Removal and Infrastructure Documentation Using Drones

Michael Gauger, *Washington State Department of Transportation*

Panel Discussion: Taming Disaster via Public Safety sUAS State Coordination Groups

Christopher Todd, *AIRT*

Jason Day, *TxDPS*

Robert Dooley, *FHP*

Kerry Fleming, *DRONERESPONDERS*

Michael O'Shea, *DRONERESPONDERS*

Vendor Data Collection Presentations

11:20 am

WISPR

11:40 am

Duncan-Parnell

10:15 – 11:55 AM

Track 3: Construction Tools

Room 106-107

Moderator: Joe Brenner, Michael Baker International

Achieving Collaboration in the Field with Owners, Contractors, and Consultants

Mark Atkinson, *South Carolina Department of Transportation*

Ward Zerbe, *OnStation*

Integrated Infrastructure Inspection: Leveraging BIM, Augmented Reality, and Mobile Tools for Enhanced Project Outcomes

Terry Cline, *Infotech*

Melissa Harrington, *Trimble*

Finding Success with Digital Construction Tools

Becky Hjelm, *Horrocks*

Derrick Sharp, *Horrocks*

Track 4: Area V Presentations

Room 102-103

Moderator: Alex Joyce, Live U

Resilience on the Road Infrastructure in Croatia

Tomislav Hodak, *Croatia*

Implementation of GIS Solutions Supporting IT Infrastructure

Nedim Barakovic, *Bosnia and Herzegovina*

Leveraging IFC in Austrian OpenBIM Infrastructure Projects

Dario Gaudart, *Austria*

Track 5: Drainage / Civil 3D (10:15 – 11:55 AM)

Room 104-105

Moderator: Laurence Vaughan, Symetri

Streamlining Model Based Storm Sewer Networks

Roberto Ruiz, *South Carolina Department of Transportation*

Rad Lazic, *Autodesk*

Streamlining Model Based Hydraulics for Bridge Design

Roberto Ruiz, *South Carolina Department of Transportation*

Rad Lazic, *Autodesk*

Civil 3D Dynamo and Subassembly Composer

Steve Popke, *Wisconsin Department of Transportation*

Russ Nicloy, *MACER Technologies*

11:00 – 12:00 PM

Boardroom Meeting

Host: Symetri

12:00 – 12:55 PM

Lunch

Lunch Keynote: A Short Memoir of 37 Consecutive IHEEPS



Rande Robinson

North Carolina Department of Transportation

Rande is a part-time blogger, tweeter, author, journalist, and curmudgeon who, during the day, works for the North Carolina Department of Information Technology - Transportation (NCDIT-Trans) as an Applications System Analyst II. He is currently responsible for training, support, and implementation of the NCDOT's CADD and engineering applications for North Carolina. Rande has over 40 years of experience in Information Technology, Construction, Bridge, and Roadway Engineering, working with two state departments of transportation.

In addition to his AEC/Civil Engineering software background, Rande has been involved with internet technologies since the late '90s and was the original webmaster of the West Virginia Department of Transportation. His primary area of interest is applying technology to enhance engineering workflows and processes in highway and bridge design.

Rande has been a Bentley/Intergraph user his entire career, starting on an Intergraph VAX and progressing through today's suite of Bentley Systems PC design tools.

Additionally, Rande has taught MicroStation, AutoCAD, and engineering drafting at several community colleges.

Rande has made many presentations over the past 39+ years in the United States, Canada, and Eastern Europe on the subject of applying Information technology in civil and highway engineering. From 1997 to 2001, he wrote a regular column for PC Trans Magazine (now a website) titled "Rande's Rantings & Ravings." He also co-authored Understanding MicroStation V8 XM in 2D: A Basic Guide for XM and V8i Users. He has been a member of the Highway Engineering Exchange Program (HEEP) for the past 37 years and served as the organization's President in 2019. He is also a life member of the American Society of Civil Engineers (ASCE).

Rande has a B.S. in Civil Engineering from West Virginia Institute of Technology.

1:00 - 2:40 PM

Track 1: IFC

Room 202-204

Moderator: Alexa Mitchell, HDR

Advancing Digital Construction through IFC: PennDOT ADCMS Grant

Allen Melley, Pennsylvania Department of Transportation

Marcia Yockey, HDR

Advancing Bridge Digital Models: The Nation's First IFC Contractual Model

Allen Melley, Pennsylvania Department of Transportation

Joe Brenner, Michael Baker International

Advancing IFC Integration in Construction

Thomas Hamski, Iowa Department of Transportation

Grant Schmitz, HDR

1:00 - 2:40 PM

Track 2: UAS Field Data Collection Presentations

Room 206-208

Vendor Data Collection Presentations

1:00pm - Propeller

1:20pm - InTerra

1:40pm - Skydio

2:00pm - Frontier Precision

2:20pm - RDO

Track 3: Lidar / Machine Learning / AI (1:00 - 2:40 PM)

Room 106-107

Moderator: Jason Kunkel, Arkance

WSDOT: Creating a Digital Lifecycle for Traffic Signs

Jim Mahugh, Washington State Department of Transportation

Michael Ross, Jacobs

WSDOT: Extracting Assets from LiDAR with Imagery

Jim Mahugh, Washington State Department of Transportation

Douglas Howe, Western Region Geospatial Solutions Leader

Integrating Remote Sensing Technologies for Comprehensive Transportation Corridor Surveying

Chris Breedlove, Withers & Ravenel

Chris Godwin, Withers & Ravenel

1:00 - 4:55 PM

Track 4: FHWA's Digital Delivery Stakeholder Group (DDSG)
Peer Exchange Workshop: Aligning the Industry Around
Advanced Digital Delivery

Room 102-103

Digital Delivery Stakeholder Group

Matthew Corrigan, *FHWA*

Katherine Petros, *FHWA*

Roger Grant, *National Institute of Building Sciences*

Adham Naiem, *National Institute of Building Sciences*

Mona Ketterl, *CRAFT*

1:00 - 2:40 PM

Track 5: AI / Quality Control

Room 104-105

Moderator: Bob Mueser, Autodesk

Maintaining Momentum: Data & AI Initiatives in Utah

Charles Hill, *Utah Department of Transportation*

Adam Radel, *HNTB*

Revolutionizing Infrastructure Design & Construction with
Generative AI: Turning Powerful Insights into Action

Edmundo Herrera, *Autodesk*

1:00 - 2:00 PM

Boardroom Meeting Host: LeapThought

2:00 - 3:00 PM

Boardroom Meeting

Host: Trimble

2:45 - 3:15 PM

Break with Vendors

3:15 - 4:55 PM

Track 1: Modeling and Quality Control / Quality Assurance

Room 202-204

Moderator: JD Sherrill, LeapThought

Trust, Collaboration and Bluebeam: Where Agencies Align

Alic Kozusko, *South Carolina Department of Transportation*

Parth Tikiwala, *Bluebeam*

Josias Tchatchoua, *Bluebeam*

Eddie Giese, *Patel, Greene & Associates*

Developing Modeling QA/QC Policy and Procedures

Andrew Poszich, *RS&H*

Samuel Worthy, *RS&H*

3:00 - 4:55 PM

Track 2: UAS Field Data Collection Presentations Room 206-208

Vendor Data Collection Presentations

3:00pm – *Pointerra 3D*

3:20pm – *Seiler*

3:40pm – *Live U*

4:00pm – *Harris & Reigl*

4:20pm – *Censys*

4:40pm – *gNext*

3:15 - 4:55 PM

Track 3: Construction / Utilities / Artificial Intelligence
(Room 106-107)

Moderator: Heather Jimenez, Symetri

Leveraging Existing Job Site Data for Real-Time Safety:
From Equipment Telematics to Digital As-Builts

Cedric Wilkinson, *Iowa Department of Transportation*

Joel VanDusen, *HaulHub Technologies*

Streamline Project Planning Using AI for Utility Mapping |
4M & GDOT

Raz Ezra, *4M Analytics*

Nicholas Fields, *Georgia Department of Transportation*

Track 4: FHWA's Digital Delivery Stakeholder Group (DDSG)
Peer Exchange Workshop: Aligning the Industry Around
Advanced Digital Delivery (3:15 - 4:55 PM)

Room 102-103

Digital Delivery Stakeholder Group

Matthew Corrigan, *FHWA*

Katherine Petros, *FHWA*

Roger Grant, *National Institute of Building Sciences*

Adham Naiem, *National Institute of Building Sciences*

Mona Ketterl, *CRAFT*

Advancing Fully Integrated Model Delivery



Wednesday, October 8, 2025

3:15 - 4:55 PM

Track 5: Digital Workflows

Room 104-105

Moderator: Mark Mergenschroer, Autodesk

Project Management Reimagined: Nevada DOT's Software Driven Transformation

Brittany Snedeker, Nevada Department of Transportation

Brad Kramer, Aurigo

Transportation Infrastructure: Data Collection to AI Analysis to Asset Management

Khrystyna Bezborodova, Trimble

Maximillian Ovett, 4M Analytics

Beyond the Initial Dig: Unearthing the Gems of PTC's Digital Delivery Evolution

Mark Anderson, Pennsylvania Turnpike Commission

Mario Morales, Symetri

3:30 - 4:30 PM

Boardroom Meeting

Host: Carlson Software, Inc.

Join **Scott Griffin, Sales Director**, and **Butch Herter, Hardware Director**, for an in-depth presentation focusing on the newest hardware innovations from **Carlson Software: the Viking GNSS with "Triple Fix"**, delivering enhanced accuracy and reliability, along with the **Washington Data Collector** featuring a **built-in GNSS unit**, designed to streamline workflows and increase efficiency.

6:00 - 10:00 PM

**Banquet and Awards Ceremony - Pirates Voyage
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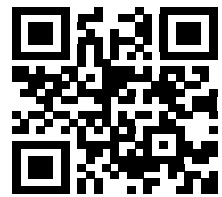
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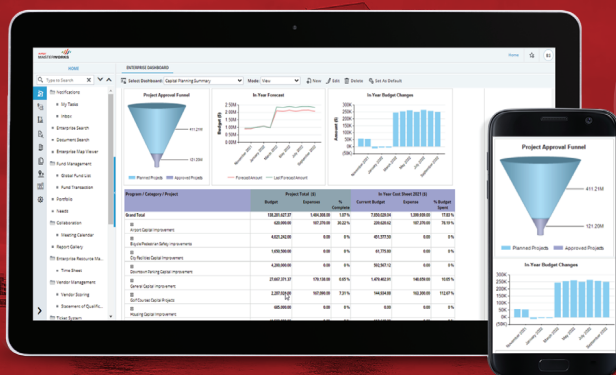
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Scott Cullinane
401.741.1541
scott.cullinane@skydio.com

7:00 am - 8:00 am

Breakfast

8:00 - 9:45 AM

Track 1: Open Standards / State Specific (8:00 - 9:45 AM)

Room Ballroom

Moderator: Corey Johnson, WSB

Using Digital Delivery on the West Alabama Hwy Progressive DB Project

Marc Thompson, *Brasfield & Gorrie*

Pete Thompson, *HDR*

Digital Project Lifecycle – Below the Surface to Above

Rob Martindale, *Colorado Department of Transportation*

Matt Blake, *HDR*

Jeremy Colip, *HDR*

Operationalizing the Model Throughout the Entire Project Lifecycle

Corey Johnson, *WSB*

Dan Sheldon, *WSB*

Track 2: ISO 19650

Room 206-208

Moderator: Brian Korschgen, *AASHTOWare*

Proposed Application of ISO 19650 Standards

Michael DenBleyker, *Arizona Department of Transportation*

Alexa Mitchell, *HDR*

Rande Robinson, *North Carolina Department of Transportation*

Track 3: Artificial Intelligence

Room 106-107

Moderator: Tony Curtis, *Horrocks*

Accelerating Disaster Recovery with AI: Automating Damage and Assessments to Speed Recovery Efforts

Antonio Moss, *Blynscys, Inc.*

Accelerating CAD with AI: Power Up Your Workforce!

Seth Lown, *South Carolina Department of Transportation*

Samuel Worthy, *RS&H*

Jeff Bachiochi, *VHB*

Track 4: Asset Management & Digital Delivery

Room 102-103

Moderators: Simon Lewis, *AECOM*

Michael Cremin, *Minnesota Department of Transportation*

George Lukes, *2023 IHEEP President, Retired Utah Department of Transportation*

Charles Hill, *Utah Department of Transportation*

Reed Brockman, *AECOM*

Asset Data Lifecycle Management: Intro

Asset Data Lifecycle Management: Overall Architecture

Asset Data Lifecycle Management: High-Level Components

Asset Data Lifecycle Management: Technical Delivery Components

Asset Data Lifecycle Management: Exercise

Asset Data Lifecycle Management: Steps Ahead

Track 5: Workforce Development / STIP

Room 104-105

Moderator: Eric Andelin, *Pointerra 3D*

Building a Future Ready DOT: A Practical Application to TOGAF

Jonathan French, *Maine Department of Transportation*

Robert Cooney, *eVision Partners, Inc.*

Workforce Adaptation to the Digital Delivery Revolution

Teresa McClain, *Pennsylvania Department of Transportation*

Cathy Cassar, *Michael Baker International*

Leveraging Roads and Highways Project Location Data in STIP

Mitch Stephens, *PMG Software*

9:45 - 10:15 AM

Break

10:15 - 11:55 AM

Track 1: LOD / LOIN

Room Ballroom

Moderator: Dan Sparrow, *InTerra*

A Year in the Life of Workspace, Training, and LOIN

Matthew Calkins, *Connecticut Department of Transportation*

Elaine Richard, *Connecticut Department of Transportation*

Yash Manandhar, *Connecticut Department of Transportation*

Panel Discussion of Level of Development (LOD)

Jacob Tambunga, *Texas Department of Transportation*

Adrian Martinez, *Texas Department of Transportation*

Scott McMasters, *Pennsylvania Department of Transportation*

John Wilkerson, *Michael Baker International*

Allie Walters, *HNTB*

10:15 - 11:55 AM

Track 2: State Specific

Room 206-208

Moderator: Vern Danforth, EnvisionCAD

Roundabouts in South Carolina: Safety, Design & Implementation

Seth Lown, *South Carolina Department of Transportation*

Majo Varghese, *Transoft*

Progressing Digital Delivery in Tennessee

David Morse, *WSP*

Levi Littler, *WSP*

Feature Detection in a PDF Drawing Package – An AI Application

Jon Blanchard, *Georgia Department of Transportation*

Mark Stefanchuck, *Phocaz, Inc*

Track 3: Project Delivery

Room 106-107

Moderator: Mark Mergenschroer, Autodesk

Bridging Platforms and Standards – A Real-World Digital Delivery Use Case

Michael Pearson, *Oklahoma Department of Transportation*

Tim Reckseen, *Pencil 9*

JR Smith, *Pencil 9*

Fundamentals of Construction Management & Digital Delivery Considerations for Design Professionals

Will Holmes, *Kentucky Transportation Cabinet*

Terry Cline, *InfoTech*

Adam Dawidowicz, *InfoTech*

Track 4: Digital Delivery Workshop for Asset Data Lifecycle Management

Room 102-103

Moderators: Simon Lewis, AECOM

Michael Cremin, *Minnesota Department of Transportation*

George Lukes, *2023 IHEEP President, Retired Utah Department of Transportation*

Charles Hill, *Utah Department of Transportation*

Reed Brockman, *AECOM*

Asset Data Lifecycle Management: Intro

Asset Data Lifecycle Management: Overall Architecture

Asset Data Lifecycle Management: High-Level Components

Asset Data Lifecycle Management: Technical Delivery Components

Asset Data Lifecycle Management: Exercise

Asset Data Lifecycle Management: Steps Ahead

Track 5: Geotechnical / Bridge

Room 104-105

Moderator: Sara Stone, South Carolina Department of Transportation

Bridging the Gap: Bringing Geodata into Civil Design with GeoDin and Autodesk

Tushita Kurugundia, *Fugro USA Land*

Kimberly Norton, *GeoDin*

Angel Espinoza, *Autodesk*

From Manual to Automated: Streamlining Load Rating Workflows

Rodrick Tucker, *South Carolina Department of Transportation*

Hanjin Hu, *Michael Baker International*

Petrina Butler, *Michael Baker International*

SCDOT Conversion from gINT to BoreDM

Nick Harman, *South Carolina Department of Transportation*

Louis Aaron, *BoreDM*

12:00 – 12:55 PM:

Lunch



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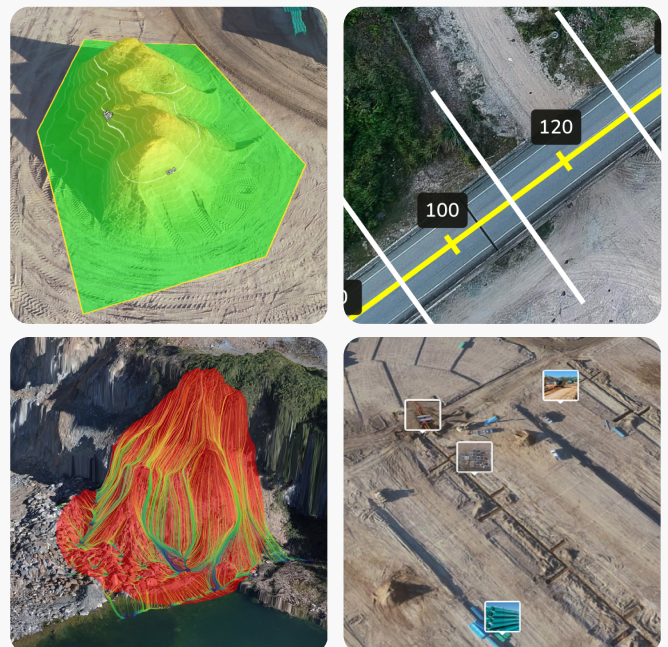


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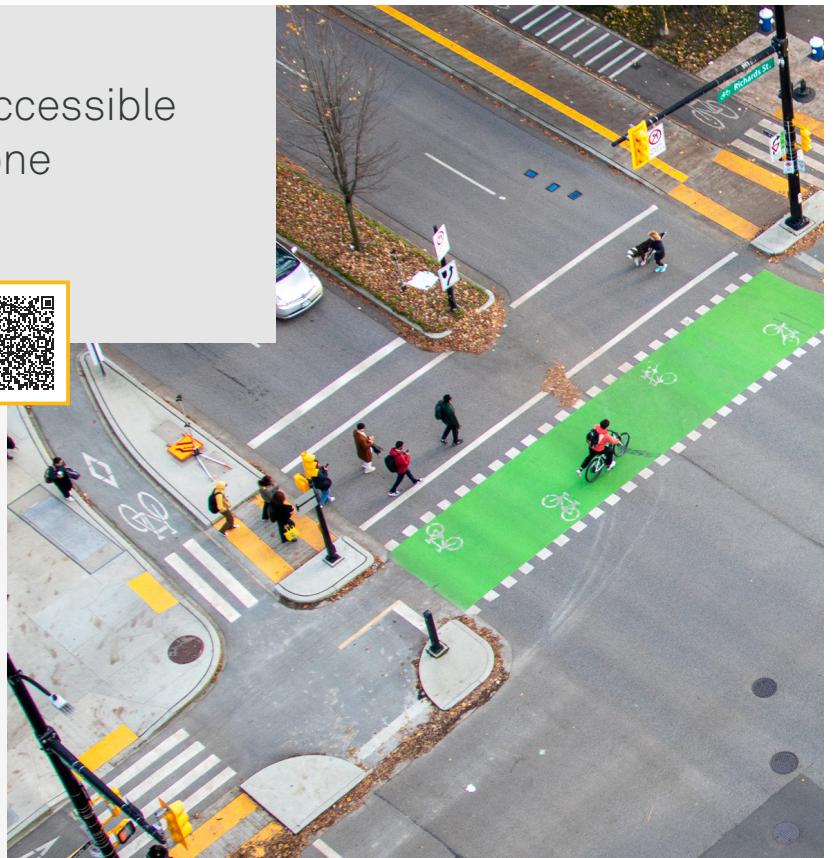
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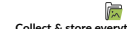
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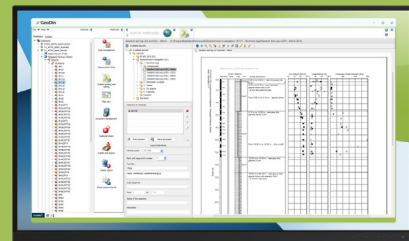
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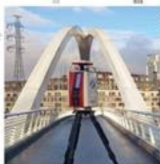
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UAS COMMITTEE

From First Flights to National Forum: The Inception and Growth of the UAS Track at IHEEP

Beginnings in Curiosity and Collaboration

The UAS (Uncrewed Aircraft Systems) track at the International Highway Engineering Exchange Program (IHEEP) began not with a single plan, but through the intersecting journeys of professionals who saw the potential of drones in transportation infrastructure.

For J.D. D'Arville, the spark came in 2016 when his agency's front office asked him to start a UAS program despite his limited background in aviation technology. By leaning on colleagues, consultants, and vendors, he built one of the early state DOT drone programs, crediting peers like Alicia McConnell and Paul Wheeler for their crucial role in shaping the effort.

Alicia McConnell's introduction came from the private sector, when her consulting firm put out a call for licensed pilots during the days of the FAA's 333 exemptions. Starting with a small team, she developed procedures, checklists, and training protocols before being given the reins to expand into nationwide drone operations. Her story echoed J.D.'s: trial, error, collaboration, and steady growth into leadership.

Paul Wheeler's journey reached back even further. With roots in aviation as a child RC enthusiast, his career blended technology with aviation. By 2010, while working at Utah State University, he was experimenting with foam RC aircraft loaded with sensors. This tinkering evolved into pilot projects for accident reconstruction and construction monitoring, eventually bringing Wheeler into state DOT leadership on UAS adoption.

For Jon Starr, the turning point came through relationships. He first met J.D. at a Bentley conference in Philadelphia, where a long night at McGillin's Ale House forged a bond that continues to this day. By 2018, Jon was hosting IHEEP in Lincoln, Nebraska. There, J.D. showcased Alabama DOT's UAS program by conducting drone flights, and creating a 3D model of the State Capitol, a bold demonstration that captivated attendees, including Nebraska DOT leadership. That moment directly influenced the decision to launch a UAS program at NDOT, with Jon chosen to lead it. Shortly after, Jon attended a peer exchange in Alabama where he met Paul Wheeler, further cementing his role in the growing national network of drone innovators.

Together, J.D., Alicia, Paul, and Jon built not only their own programs, but a community. Their early workshops and peer exchanges, often organized with Federal Highways, were instrumental in spreading lessons learned to agencies across the country.

Planting the Seed at IHEEP

IHEEP had long been a technical conference centered on infrastructure design, but by the late 2010s, drones were becoming too relevant to ignore. An active member of the Highway Engineering Exchange Program (HEEP) since 1999, J.D. recalls presenting the very first UAS session at IHEEP in Montana in 2016 — to a packed room. In the following years, the interest only grew.

By 2022, after countless conversations, networking, and planning, J.D. proposed a dedicated UAS track to the IHEEP board. Backed by the experience of years of peer exchanges and with the support of Alicia, Paul, and Jon, the board approved it. The UAS track was officially launched in 2023, marking a turning point for the conference.

Building the Team

The original committee of J.D., Alicia, Paul, and Jon soon expanded. Blaine Buenger joined during the Des Moines meeting, bringing local expertise and logistical coordination. Ryan Traversa followed soon after, contributing perspective from the challenges of expanding newer state programs. Aaron Chamberlin's involvement and national expertise proved valuable in planning and logistics for the UAS track this year, while also carrying Area 4 Director responsibilities for IHEEP. And as the group looks forward, collaborators like Sergio Roman and others promise to carry the vision into the next generation.

Vendors and consultants were also intentionally included from the beginning. Through unique vendor roundtables at IHEEP, companies could share product roadmaps and receive live feedback from agencies. This exchange ensured that technology development and field needs stayed aligned.

Rapid Growth and Lasting Impact

The UAS track grew rapidly. What started as a handful of presentations has turned into one of the most dynamic portions of the conference, with attendance seeing substantial growth in recent years. Sessions range from technical "how-to" demonstrations to broader roundtable discussions on integrating UAS data into construction, asset management, and digital delivery workflows.

The peer exchange model—piloted years earlier—remains at the heart of the track. States share policies, lessons learned, and practical solutions, while also building personal networks. Members routinely note that the ability to text a colleague across the country for advice on a technical or regulatory issue is one of the most valuable outcomes of their work together.

The team's influence has also extended beyond IHEEP. Collectively, they've served on NCHRP and AASHTO panels, contributed to Transportation Research Board (TRB) reports, and spoken at major conferences like Commercial UAV Expo, AUVSI, TRB, and InterDrone. Their fingerprints can be found in UAS programs across nearly every state DOT in the nation.

Looking Ahead

The UAS track at IHEEP has grown from a handful of presentations into a nationally recognized forum. Its success stems not only from advances in technology, but from the strength of its community—professionals who have remained connected for nearly a decade, sharing knowledge openly and mentoring the next generation of leaders.

As J.D. reflected, "I believe this is only the beginning. As technology advances and younger leaders like Ryan, Aaron, and Sergio take the reins, growth will continue well into the future".

IHEEP's UAS track now stands as a model of how collaboration, persistence, and a willingness to experiment can transform an idea into an institution. And if its trajectory so far is any indication, the future will only see the track expand in scope, influence, and impact.

As we look ahead to IHEEP 2025 and beyond, the UAS Committee remains committed to advancing technology, strengthening partnerships, and creating opportunities for the next generation of transportation professionals.

UAS COMMITTEE BIO'S



J.D. D'Arville

J.D. D'Arville is the UAS Program Administrator for the Alabama Department of Transportation (ALDOT), where he oversees the agency's statewide Unmanned Aircraft Systems operations. With more than 35 years of experience at ALDOT, his career spans Materials & Tests, Design, Transportation Planning, and Maintenance Bureaus. In 2016, he developed and launched ALDOT's UAS Program, establishing a dedicated UAS Section that now supports aerial surveys, construction projects, right-of-way mapping, structural inspections, 3D modeling, and disaster response assessments. A certified Part 107 pilot, J.D. works closely with the FAA, FHWA, and industry partners to advance drone technology within the transportation sector. He earned his Bachelor of Science degree from Troy State University in 1986 and has been nationally recognized for his leadership in UAS integration and innovation.

Fun Facts: 2012 HEEP President, diehard Florida Gator fan, and his nickname while playing HS/College baseball was "Magic"



Alicia McConnell

Alicia McConnell has been leading UAS programs since 2018, including oversight of a nationwide network of pilots that performed UAS-based missions including surveying and mapping, bridge inspections, communication tower inspections, construction inspection and monitoring, disaster assessments, building façade inspections, roof inspections, and thermal analyses. She is also a certified Part 107 UAS pilot with significant experience in bridge inspections. Since beginning to investigate using UAS for engineering applications in 2016, she has performed and overseen hundreds of UAS missions across the nation. She currently provides UAS Program Management consulting and is involved in UAS research.

Fun Facts: Alicia is also a Private Pilot and still holds her university's stadium and all-time outdoor record for javelin throw.



Paul Wheeler

Paul Wheeler is an internationally recognized Advanced Air Mobility (AAM)/Unmanned Aircraft System (UAS) subject matter expert and was recognized by Commercial UAV Expo and InterDrone as one of the world's top drone visionaries. His background in aviation, surface transportation, and technology has given him a unique perspective on innovative solutions across industries. Mr. Wheeler has developed first of their kind guidance manuals on AAM & UAS and currently serves on multiple national committees to help foster innovation through emerging technologies. He is passionate about the vision to enable a new revolution of aerial innovation and transportation.

Fun Facts: Paul is a licensed Pilot, writes and produces original songs, loves the outdoors, and has 5 children

UAS COMMITTEE BIO'S



Jon Starr (Past UAS Committee Member)

Jon is the Digital Delivery Manager at the Nebraska Department of Transportation, where he's leading the charge to move NDOT and its partners from old-school plan sets to streamlined contractual models and fully digital as-builts. Over his 30+ years with NDOT, he's worn a lot of hats—roadway design, engineering tech support, IT leadership, and launching/leading the department's Unmanned Aircraft System Program.

Fun Facts: Loves nature, backpacking in the Western US wilderness, and working out. Once was pulled from the crowd at a Harlem Globetrotters game and sunk a 3 pointer- yes, I still have eligibility remaining if any NIL deals are looming.



Blaine Buenger

Mr. Buenger is a Technology Director for the Infrastructure business unit at the Foth Companies. He has over 25 years of experience in the heavy civil industry with background in highway design, construction inspection, and survey. What started as CAD design and management has evolved into managing Foth's engineering technologies, technology vendor relationships, digital delivery strategies & emerging technologies.

Fun Facts: He has never flown a UAS, Blaine is an award winning brewmaster and won two gold ribbons at the Iowa State Fair.



Ryan Traversa

Ryan has been employed with the Tennessee Department of Transportation Aeronautics Division for seven years. He has five years of experience in grant management and compliance section and currently manages the Advanced Aviation and drone section. He has a Bachelor of Science in Aviation Management with a minor in Business Administration from Middle Tennessee State University. He is Air Traffic Collegiate Training Initiatives (AT-CTI) Certified as well as Part 107 licensed. He also served five years in the Marine Corps Infantry. He is married with one child.

Fun Facts: Loves to work out, and has a great sense of humor

PAST PRESIDENTS

YEAR	PRESIDENT	LOCATION	YEAR	PRESIDENT	LOCATION
1960	R.J. Hansen	Endicott, MA	1992	Gerry Gingras	Burlington, VT
1961	J.B. Vail	Kansas City, KS	1993	William (Bill) Crawford	San Antonio, TX
1962	H. Gottheim	Denver, CO	1994	Dennis Babin	New Orleans, LA
1963	F.A. Nagel	Columbus, OH	1995	Doug Tindall	Portland, OR
1964	R. Buckwalter	Des Moines, IA	1996	Kelly Badenoch	Kansas City, MO
1965	J. Hoffman	Madison, WI	1997	Ray Halperin	Portland, ME
1966	Myron (Mike) Bacon Jr.	New Orleans, LA	1998	Charles (Chuck) Conley	Colorado Springs, CO
1967	A.J. Landary	Olympia, WA	1999	Harvey Elethrop	Mobile, AL
1968	A.E. Goodwin	Toronto, ON	2000	Renaldo Lovisa Jr.	Charlotte, NC
1969	Ron Clark	Washington, DC	2001	Kenneth Connell	Saint John, NB
1970	C.D. Smith	Lincoln, NE	2002	Douglas Fees	St. Louis, MO
1971	Jack Stanton	Phoenix, AZ	2003	Michael Watters	Cheyenne, WY
1972	Herb Pressley	Ft. Lauderdale, FL	2004	Jon Ogden	Lincoln, NE
1973	Larry Walker	Austin, TX	2005	Diane L. Gunsch	Bismark, ND
1974	J.C. Bridwell	Lexington, KY	2006	Tom Harris	Williamsburg, VA
1975	Walter Verrill	Portland, ME	2007	Michael Authur	Albany, NY
1976	R.J. Nugent	Los Angeles, CA	2008	Johnny Martinez	Albuquerque, NM
1977	Steve Madden	Springfield, IL	2009	Judy B. Skeen	San Antonio, TX
1978	W.C. Wall Jr.	Jackson, MS	2010	Daniel Belcher	Dearborn, MI
1979	Dale Johnson	Topeka, KS	2011	Dan Buhler	Winnipeg, MD
1980	Al Cole	Albany, NY	2012	J.D. D'Arville	Montgomery, AL
1981	Don Peterson	Keystone, CO	2013	Wally Ballou	Overland Park, KS
1982	Sam Mallory	Nashville, TN	2014	Mark Suarez	New Orleans, LA
1983	Frank Tracy	Williamsburg, VA	2015	Denise Reis	Pittsburgh, PA
1984	Alex Azemore	Minneapolis, MN	2016	Mike Dyrdaahl	Helena, MT
1985	Jerry Coleman	Baltimore, MD	2017	Kevin Martin	Covington, KY
1986	E.C. (Woody) Nieman	Scottsdale, AZ	2018	Jon Starr	Lincoln, NE
1987	Norm Baker	Des Moines, IA	2019	Rande Robinson	Asheville, NC
1988	J.M. Nieves	Atlanta, GA	2020	Vern Danforth	*Florida
1989	J.R. Szivos	Lancaster, PA	2021	Elaine Richard	Hartford, CT
1990	Al Yocom	Rapid City, SD	2022	Vern Danforth	Fort Myers, FL
1991	Pete Tajcna	Edmonton, AB	2023	George Lukes	Salt Lake City, UT
			2024	Thomas Hamski	Des Moines, IA

*2020 event not held due to COVID



KENNETH G. CLOSE AWARD

An award in memory of Mr. Ken Close, a long-time member and supporter of HEEP, may be given to honor one or more members at the annual meeting each year. Suggestions for the award may be made to the President for consideration. The President will make the final determination of any nominations and canvas the HEEP Officers for approval. The award is not necessarily presented annually. Although no specific criteria have been established for determining eligibility, recipients should reflect the goals of HEEP.

Kenneth (Ken) G. Close was a special projects engineer for the Federal Highway Administration and served as the Secretary of the AASHTO Subcommittee on Data Processing, now known as the AASHTO Subcommittee on Information Systems. Ken was also the FHWA designated delegate to the HEEP organization. In the 1970s the HEEP organization did not enjoy the collaborative working relationship with AASHTO that we enjoy today. Ken worked with Norm Baker of the Iowa DOT and Myron (Mike) Bacon of the Wisconsin DOT to improve and expand the working relationship between the AASHTO IS Subcommittee and the HEEP organization. This was a daunting task given the fact that the two venues had few common attendees; however, the team prevailed, laying the groundwork for the supportive relationship between the two organizations. Tragically, in 1984 Ken and his wife were involved in a fatal automobile accident while returning from the AASHTO subcommittee meeting.

In 1985, HEEP President Jerry Coleman of the Maryland DOT made the recommendation that HEEP establish a mechanism to recognize HEEPers who have provided long-term support for the organization. Jerry further suggested that the organization turn the tragic loss of Ken Close into an opportunity to honor Ken's memory and significant contributions to HEEP via the establishment of the Kenneth G. Close Award. He, with the approval of the Board of Directors, established the award in 1985.

Kenneth G. Close Award Winners

1985 *Ron DeCloak	1999 John Penzien	2013 Dan Buhler
1985 *Hubert Henry	2001 Raymond E. Halperin	2014 J.D. D'Arville
1986 Bob Hansen	2003 Petr Pospisil	2015 *J.D. D'Arville
1987 Walter Verrill	2004 *Don C. Peterson	2015 *Dan Belcher
1988 *Frank Tracy	2004 *Ellwood "Woody" Neiman	2016 Mark Saurez
1988 *Mike Bacon	2005 Jon Ogden	2017 Denise Reis
1992 Glenn Sikes	2006 Rande Robinson	2018 *Rachelle VanDeventer
1993 Richard Hand	2007 Diane Gunsch	2018 *Michael Dyrdaahl
1994 Gerry Gingras	2008 Paul Fort	2019 Rennie Lovisa
1995 Jack Stanton	2009 Douglas Fees	2021 Kevin Martin
1996 Al Yocom	2010 Michael G. Arthur	2022 Rande Robinson
1997 Al Cole	2011 Judy Skeen	2023 Jon Starr
1998 Chick Yates	2012 Dan Belcher	2024 Elaine Richard

**two persons awarded these years*



Date/Time	Sessions					PDH Max	PDH Earned
Sunday, October 5, 2025							
2:00 - 3:00	DOT Roundtables - Cadd & Emerging Technologies					1.00	
3:00 - 3:45	DOT Roundtables - Digital Delivery					0.75	
3:45-5:00	DOT Roundtables - Construction & Technology					1.25	
Monday, October 6, 2025							
8:45-9:15	KEYNOTE					0.50	
1:00-2:45	Joint Resiliency Presentation					1.75	
	ESP Presentations	UAS Roundtables	ISIC Digital Delivery	Items Types Workshop			
3:00-5:00						2.00	
Tuesday, October 7, 2025							
	Digital Delivery	UAS Presentations	State Specific	Open Data	MALD Modeling		
8:00						0.50	
8:35						0.50	
9:10						0.50	
	Digital Delivery	UAS Presentations	Survey/Construction	Bentley/Drainage	MALD/IFC/BIM		
10:15						0.50	
10:50						0.50	
11:25						0.50	
12:15	Keynote					0.50	
	Artificial Intelligence / Lidar	UAS Presentations	Construction/Digital As-Built	3D Model View Wshp	BIM/CADD/GIS		
1:00						0.50	
1:35						0.50	
2:10						0.50	
	Artificial Intelligence / Lidar	UAS Presentations	Cadd/Open Standards	Bridge / Construction	Drainage/IFC		
3:15						0.50	
3:50						0.50	
4:25						0.50	
Wednesday, October 8, 2025							
	Digital Delivery	UAS Presentations	Mobile Lidar/Data Management	SUE/Utilities	Open Data (CDE)		
8:00						0.50	
8:35						0.50	
9:10						0.50	
	MALD Construction Panel	UAS Presentations	Construction Tools	Area V	Drainage/Civil 3D		
10:15						0.50	
10:50						0.50	
11:25						0.50	
12:15	KEYNOTE					0.50	
	IFC	UAS Presentations	Lidar/Machine Learning/AI	AI & Quality Control	Digital Delivery Wksp		
1:00						0.50	
1:35						0.50	
2:10						0.50	
	Modeling/Quality Control	UAS Presentations	State Specific	Digital Workflows	Digital Delivery Wksp		
3:15						0.50	
3:50						0.50	
4:25						0.50	
Thursday, October 9, 2025							
	State Specific	ISO 19650	Digital Delivery for ADLM	Artificial Intelligence	Workforce Development		
8:00						0.50	
8:35						0.50	
9:10						0.50	
	LOD/LOIN	State Specific	Digital Delivery for ADLM	Project Delivery	Geotechnical / Bridge		
10:15						0.50	
10:50						0.50	
11:25						0.50	
Thursday, October 9, 2025							
8:00 - 1:00	IHEEP Technology Showcase at Peter Vaught Sr Boat Landing					5.00	
					Total		

Print Name: _____ Company/Agency: _____

Signature: _____

To be eligible to receive PDHs, fill in the sessions you attended and PDH earned column. Retain for your records.

SAVE THE DATE!

December 6-10, 2026



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