



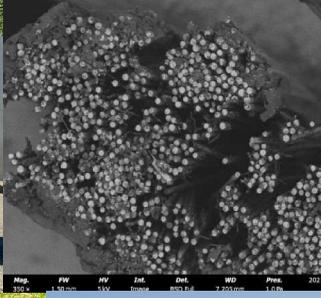
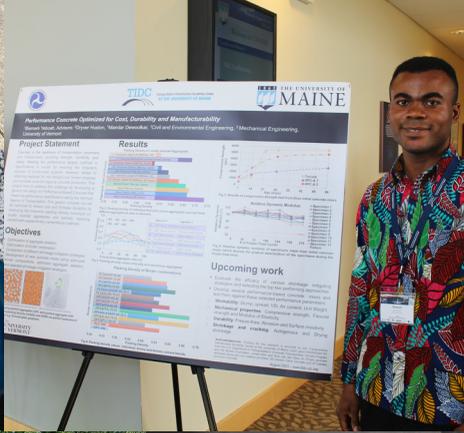
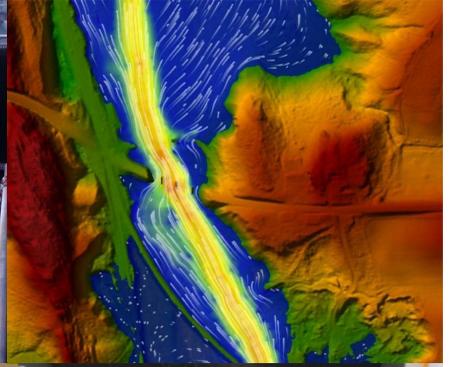
Technologies
Bridging *the* Future



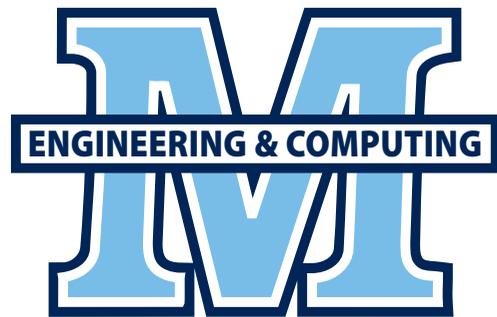
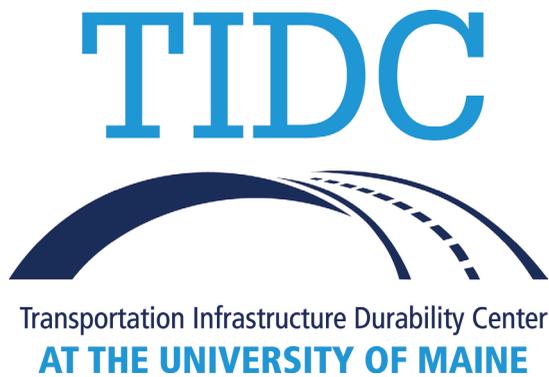
TRANSPORTATION | INFRASTRUCTURE
DURABILITY | CONFERENCE

August 6th - 7th, 2025

Wells Conference Center
The University of Maine



Thank You to Our Sponsors



GZA GeoEnvironmental, Inc.



Hosting Sponsors



Welcome!

A stylized graphic of a bridge pylon and stay cables, rendered in dark blue, positioned behind the main title text.

Welcome to the 7th Annual TRANSPORTATION INFRASTRUCTURE DURABILITY CONFERENCE

“This Year’s Conference Will Showcase
Our Collaborative Efforts to Build a More
Durable Infrastructure Through New
Transportation Technologies That Are
Bridging the Future”



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Transportation Infrastructure
Durability Center



@TIDCatUMaine



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TIDC at UMaine

Want to Learn More?



www.tidc.umaine.edu

Conference Contact

Aaron Schanck

TIDC Communications Specialist

(207) 699-7258

email: tidc@maine.edu

Program At A Glance

Wednesday August 6th

8:00-9:30 am
Check-in, Breakfast, & Posters
Sponsored by VHB

9:30-9:45 am
Day 1 Welcome

9:45-10:15 am
Keynote Address: ARPA-I and the X-BRIDGE Program

10:15-10:45 am
Keynote Panel: The Future of Composites in Infrastructure

10:45-11:00 am
Break Sponsored by GZA GeoEnvironmental

11:00 am-12:15 pm
Session 1: Composites Advances & Future Direction - Industry Perspectives

12:15-1:15 pm
Lunch Sponsored by MCEC

1:15-2:15 pm
Session 2: Composites Advances & Future Direction, Research Perspectives

2:15-2:30pm
Break Sponsored by GZA GeoEnvironmental

2:30-3:45 pm
Session 3: Session 3: TIDC Research - The Path to Deployment

3:45 pm
Wednesday Closing

Thursday August 7th

8:00-9:30 am
Check-in, Breakfast, & Posters
Sponsored by VHB

9:30-9:45 am
Day 2 Welcome

9:45-10:45 am
Session 4: Infrastructure Workforce Development - Success Stories

10:45-11:00 am
Break Sponsored by GZA GeoEnvironmental

11:00 am-12:15 pm
Session 5: AVs & CVs - Current & Upcoming Innovations

12:15-1:15 pm
Lunch Sponsored by MCEC

1:15-2:15 pm
Session 6: AI, Machine Learning & Transportation Innovations

2:15-2:30 pm
Closing Remarks

2:45 pm
ASCC or VEMI Lab Tour

Wednesday August 6th

8:00 am: Check-in, Student Posters, Exhibitors, Breakfast -
Sponsored By VHB

9:30 am: Morning Welcome

- Dr. Habib Dagher, P.E., *Executive Director, ASCC*

9:45 am: Keynote Address - The Advanced Research Projects Agency-Infrastructure (ARPA-I) and the Exceptional Bridges through Innovative Design and Groundbreaking Engineering (X-BRIDGE) Program

- Dr. Vincent Tang, *Deputy Director, ARPA-I*
- Dr. Kelley Severns, P.E., *Program Director, X-BRIDGE*

10:15 am: Keynote Panel - The future of Composites in Infrastructure, How Do We Improve the Cost Effectiveness of Transportation Infrastructure?

- **Moderated by,** Jeff Pulver, P.E., *Director of Research & Innovation, MaineDOT*
- Dr. Vincent Tang, *Deputy Director, ARPA-I*
- Dr. Kelley Severns, P.E., *Program Director, X-BRIDGE*
- Joyce Taylor, P.E., *Chief Engineer, MaineDOT*
- Dr. Habib Dagher, P.E., *Executive Director, ASCC*

10:45 am: Exhibitors & Student Poster Break - *Sponsored by GZA GeoEnvironmental*

11:00 am: Session 1: Composites Advances and Future Direction - Industry Perspectives

- **Moderated by**, Dr. Roberto Lopez-Anido, P.E., *Professor*, The University of Maine
- **Advancing Composites that Meet the Needs of the Infrastructure Market:** John Busel, *VP Composites Growth Initiative*, ACMA
- **IACMI - 10 Years of Success:** Dr. Joe Fox, *President*, FX Consulting LLC

12:15 pm: Lunch - Sponsored by MCEC, Student Posters

- Dr. Giovanna Guidoboni, *Dean*, Maine College of Engineering and Computing

1:15 pm: Session 2: Composites Advances & Future Direction - Army, MaineDOT & Research Perspectives

- **Moderated by:** Dr. Roberto Lopez-Anido, P.E., *Professor*, The University of Maine
- **Composite Advances and Plans Forward for the U.S. Army Corps & MaineDOT:** Joe Stilwell, P.E., *Senior Project Manager*, MaineDOT; *Former Nationwide Composites SME*, U.S. Army Corps of Engineers
- **A Novel Solution for Live Load Continuity in Multi-span FRP Composite Tub Girder Bridges:** Dr. Bill Davids, P.E., *Professor and Chair*, *Department of Civil and Environmental Engineering*, The University of Maine

2:15 pm: Exhibitors & Student Poster Break - Sponsored by GZA GeoEnvironmental

2:30 pm: Session 3: TIDC Research - The Path to Deployment

- **Moderated by**, Dale Peabody, *Advisory Board Chair*, TIDC
- **Real-time Wireless Joint Monitoring System for Highway Bridge Resilience:** Dr. Shinae Jang, *Professor*, The University of Connecticut
- **Processed Glass Aggregate/Glass Cullet - Quantifying Deleterious Materials Content, Allowable Limits, & Economic Analysis:** Dr. Mandar Dewoolkar, P.E., *Professor & Acting Dean*, The University of Vermont
- **Assessing Presence and Impact of REOB (Recycled Engine Oil Bottoms) on Asphalt:** Dr. Michael Greenfield, *Associate Professor*, The University of Rhode Island
- **Real-time Wireless Joint Monitoring System for Highway Bridge Resilience:** Dr. Chang hoon Lee, *Associate Professor*, Western New England University

3:45 pm: Closing Remarks

- Dale Peabody, P.E., *Advisory Board Chair*, TIDC



Thursday August 7th

8:00 am: Check-in, Student Posters, Exhibitors, Breakfast -
Sponsored By VHB

9:30 am: Morning Welcome

- Jeff Pulver, P.E., *Director of Research & Innovation, MaineDOT*

9:45 am: Session 4: Infrastructure Workforce Development: Success Stories

- **Session Introduction:** Amanda Collamore, *Workforce Development Manager, ASCC*
- **Workforce Development Programs that Work:** (Moderator) Kelly Flagg, *Director, AGC Maine*
- Kevin Napolillo, *ELO Coordinator, Brewer High School*
- Isabella Moore, *Maine Construction Academy Program graduate & Sargent apprentice*

10:45 am: Exhibitors & Student Poster Break - *Sponsored by GZA GeoEnvironmental*

11:00 am: Session 5: Autonomous & Connected Vehicles - Current & Upcoming Innovations

- **Moderated and Introduced by:** Dr. Jonathan Rubin, *Director, MCS Policy Center*
- **Autonomous & Connected Vehicles - Current & Upcoming Innovations:** Dr. Richard Corey, *Director, UMaine VEMI Lab*
- **MaineDOT's Connected Vehicle System:** Luke Lorrimer, *Transportation Engineer, MaineDOT*
- **May Mobility Update:** Sarah Yager, *Business Development Manager, May Mobility*

12:15 pm: Lunch - *Sponsored by MCEC*

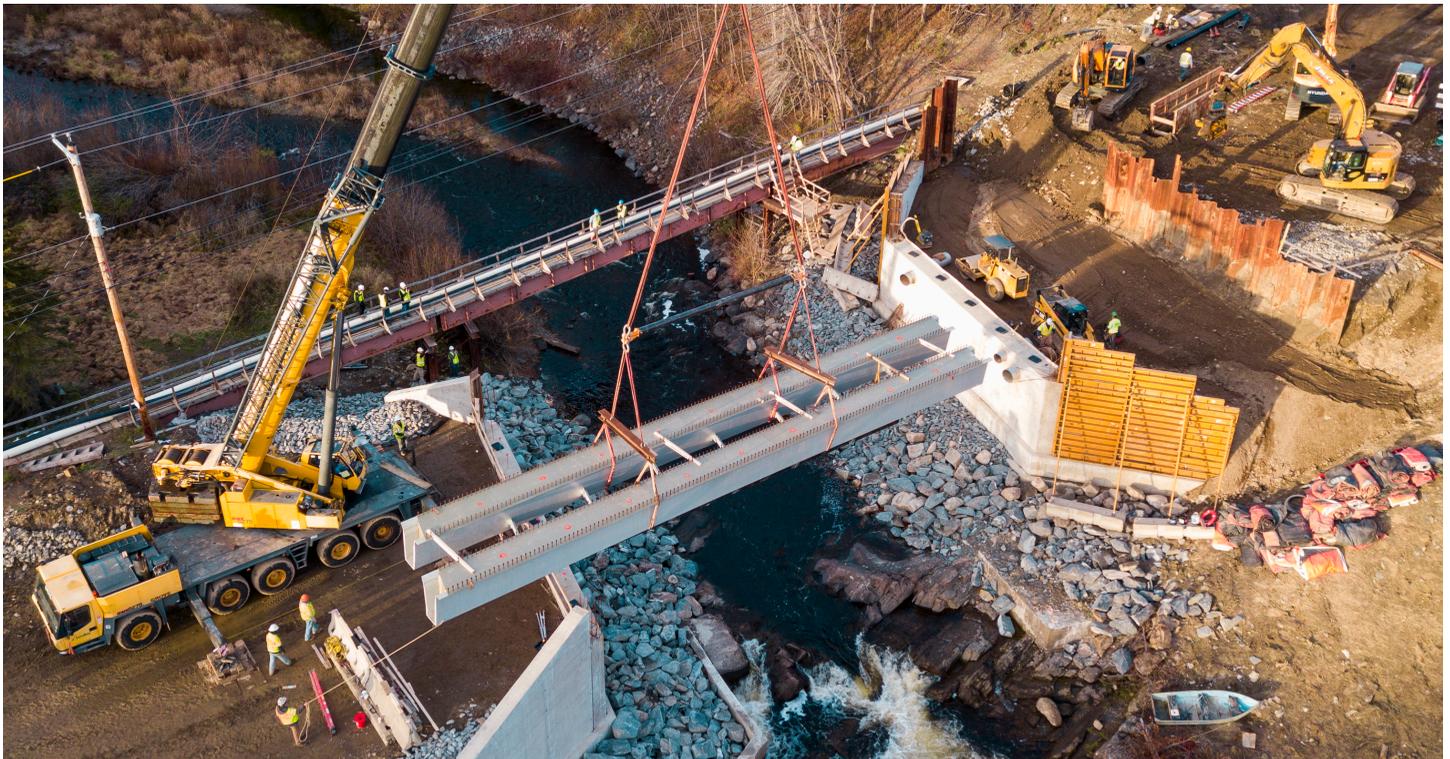
1:15 pm: Session 6: Artificial Intelligence, Machine Learning & Transportation Innovations

- **Application of Deep Learning on the Condition Assessment of RC Highway Bridges using Ground-Penetrating Radar Images:** (Moderator) Dr. Tzuyang Yu, *Professor, UMass Lowell*
- **De-mystifying Machine Learning to Inform and Optimize Urban Infrastructure:** Dr. Amy Mueller, *Associate Professor, Northeastern University*
- **GeoAI: How AI and Machine Learning are Transforming GIS in Transportation:** Charles Major, *Manager of GIS Data Engineering, MassDOT Office of Transportation Planning*

2:15 pm: Closing Remarks

- Jeff Pulver, P.E., *Director of Research & Innovation, MaineDOT*

2:45 pm: UMaine ASCC & VEMI Lab Tours (Add-on During Registration)



The future of Composites in Infrastructure - How Do We Improve the Cost Effectiveness of Transportation Infrastructure?

Moderator



Jeff Pulver, P.E.
*Director of Research &
Innovation
MaineDOT*

Keynote



Dr. Vincent Tang
*Deputy Director
Advanced Research Projects
Agency-Infrastructure (ARPA-I)*

Keynote



Dr. Kelley Severns, P.E.
*Program Director
X-BRIDGE*



Joyce Taylor, P.E.
*Chief Engineer
MaineDOT*



Dr. Habib Dagher, P.E.
*Executive Director
The Advanced Structures &
Composites Center*

Composites Advances and Future Direction - *Industry Perspectives*

Moderator



**Dr. Roberto Lopez-
Anido, P.E.**

*Professor of Civil & Env. Engineering
The University of Maine*



John P. Busel, FACI

*VP Composites Growth Initiative
American Composites
Manufacturers Association*



Dr. Joe Fox

*President
FX Consulting LLC*

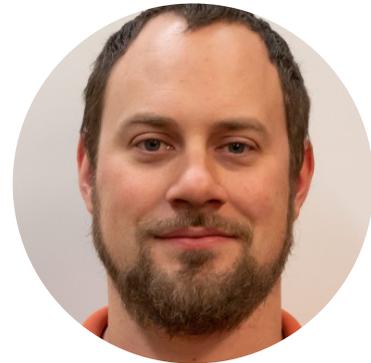
Composites Advances and Future Direction - Army, MaineDOT, & Research Perspectives

Moderator



**Dr. Roberto Lopez-
Anido, P.E.**

*Professor of Civil & Env. Engineering
The University of Maine*



Joe Stilwell, P.E.

*Senior Project Manager,
MaineDOT;
Former Nationwide
Composites SME, U.S. Army
Corps of Engineers,*



Dr. Bill Davids, P.E.

*Professor & Chair, Department of
Civil and Env. Engineering
The University of Maine*

TIDC Research - *The Path to Deployment*

Moderator



Dale Peabody
Advisory Board Chair
TIDC



Dr. Shinae Jang
Professor of Civil & Env.
Engineering
The University of
Connecticut



Dr. Changhoon Lee
Associate Professor of Civil &
Env. Engineering
Western New England
University



Dr. Mandar Dewoolkar, P.E.
Acting Dean - College of Engineering &
Mathematical Sciences, Professor of Civil
& Env. Engineering
The University of Vermont



Dr. Michael Greenfield
Associate Professor of Chemical,
Biomolecular, & Materials Engineering
The University of Rhode Island

Infrastructure Workforce Development - Success Stories

Moderator



Kelly Flagg

Director
AGC Maine



Amanda Collamore

Workforce Development Manager
ASCC



Kevin Napolillo

ELO Coordinator
Brewer High



Isabella Moore

Maine Construction Academy
program graduate & current
apprentice, Sargent

Session 5: Autonomous & Connected Vehicles - *Current & Upcoming Innovations*

Moderator



Dr. Jonathan Rubin

Director

UMaine MCS Policy Center



Dr. Richard Corey

Director

UMaine VEMI Lab



Luke Lorrimer

Transportation Engineer

MaineDOT



Sarah Yager

Business Development

Manager

May Mobility

Session 6: Artificial Intelligence, Machine Learning & Transportation Innovations

Moderator



Dr. Tzuyang Yu

*Professor of Civil & Env.
Engineering*

The University of Massachusetts
Lowell



Dr. Amy Mueller

*Associate Professor of Civil & Env.
and Marine & Env. Engineering*

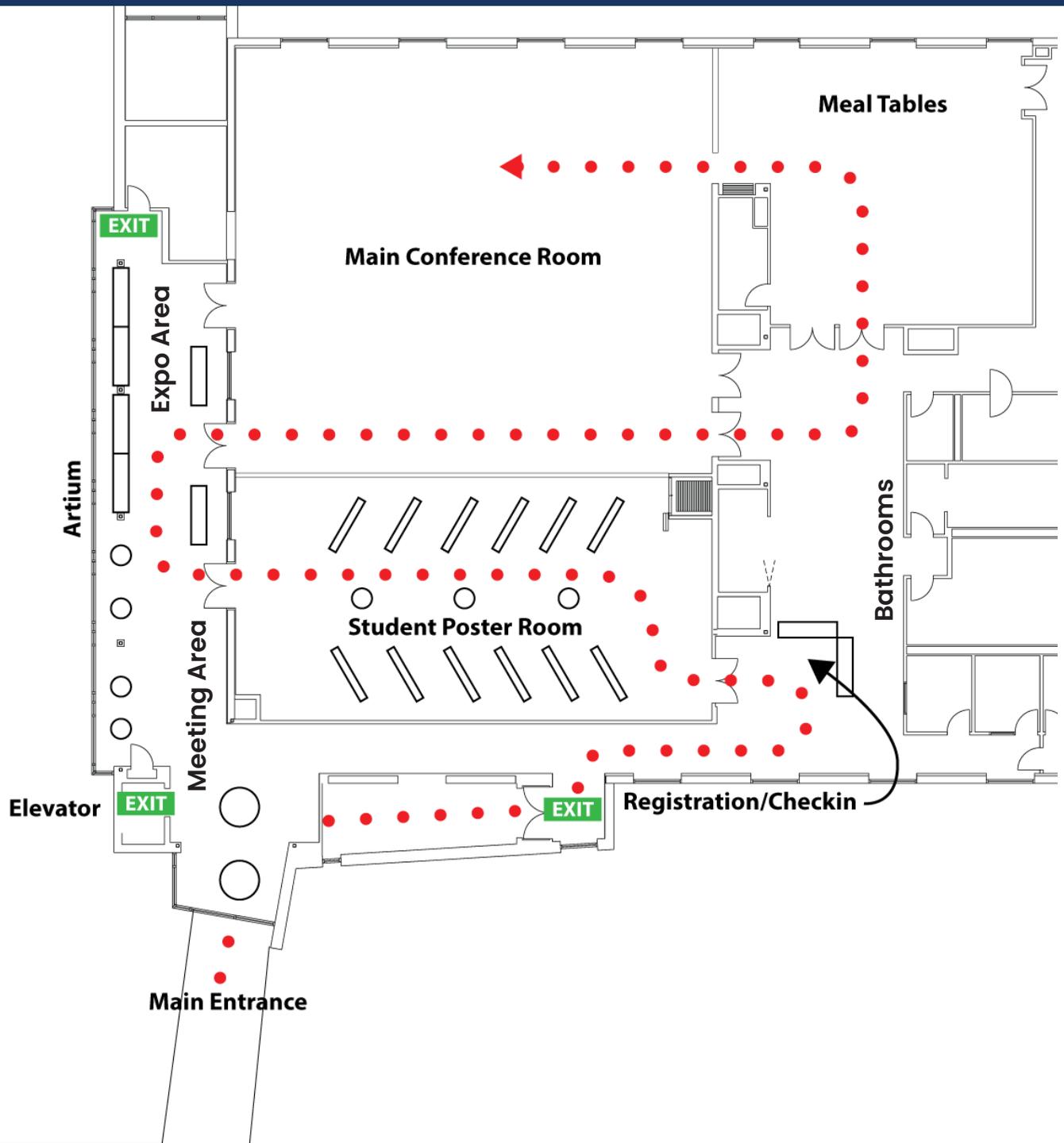
Northeastern University



Charles Major

Manager of GIS Data Engineering
MassDOT Office of Transportation
Planning

Conference Map



Munson Road

Well Parking Lot
(Conference Parking)



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