THE UNIVERSITY OF MAINE

TIDC Transportation Infrastructure Durability Center AT THE UNIVERSITY OF MAINE

DRAFT AGENDA

2023 Transportation Infrastructure Durability Conference

Driving Research to Deployment

Tuesday, August 8, 2023
Day 1

3:00 pm: Advanced Structures & Composites Center Tour – invitation only

4:00 pm: Social Networking and Exhibits

6:00 pm: Opening Ceremonies & Welcome Reception Dinner

- Dr. Habib Dagher, P.E., *Director, Transportation Infrastructure Durability Center; Executive Director, Advanced Structures & Composites Center, University of Maine*
- **Banquet Keynote: Moving Research into Implementation, Sid Mohan,** *Associate Program Manager, The National Academies of Sciences, Engineering, and Medicine*

Wednesday, August 9, 2023
Day 2

8:00 am – 9:30 am: Check-in, Poster Session, Exhibits – Light refreshments

9:30 am: Welcome Dr. Habib Dagher

9:45 am: Keynote Speaker: Dr. Robert Moser, *Senior Scientific Technical Manager, Materials, Manufacturing, and Structures, U.S. Army Engineer Research and Development Center* - **Driving Research to Practice**

10:15 am: Driving Research to Deployment Panel Discussion

- Moderator - Dr. Habib Dagher
- Dr. Robert Moser
- Joyce Taylor
- Sid Mohan
- Carrie Lavallee

10:45 am: Break

11:00 am: Plenary Session 1: Sensing the Future: Assessing & Monitoring Transportation Assets

Moderator: Dr. Vinka Oyanedel-Craver, *Professor & Associate Dean of Research Civil and Environmental Engineering, University of Rhode Island*

- **AI-Based Advances in UAV-Based Bridge Inspection** - Eric Landis, P.E., PhD, *Professor, University of Maine*

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- **Bridge Deck Underside Inspection with UAV Mounted Sensors**- Dryver Huston, PhD, *Professor, University of Vermont*
- **Optical Fiber Sensing Textile Technology for Long Term Bridge Health Monitoring** - Xingwei Wang, PhD, *Professor, University of Massachusetts Lowell*
- **Remote Sensing Technology for Structural Health Monitoring** - Tzuyang Yu, PhD, *Professor, University of Massachusetts Lowell*

12:00 pm: Lunch, Exhibits, Poster Session

1:30 pm: Plenary Session 2: State-of-the-Art in Transportation Composites

Moderator: Roberto Lopez-Anido, PhD, PE, *Professor, University of Maine*

- **State-of-the-Art Composites Technology** - John P. Busel, *Vice President, Composites Growth Initiative, ACMA*
- **Decarbonization with Fiber-Reinforced Polymer (FRP) Composites** - Joe Fox, *President, FX Consulting, LLC*
- **GBeam Composite Bridge Girders: Results of Recent Research and New Developments** - Bill Davids, PhD, PE, *Professor, University of Maine*

3:00 pm: Break

3:15 pm: Plenary Session 3: Geotechnical Moonshot Research Initiatives

Moderator: Ehsan Ghazanfari, PhD, *Associate Professor, University of Vermont*

- **Unique Challenges for Developing Civil Engineering Infrastructure on the Moon** - Ramesh Malla, PhD, *Professor, University of Connecticut*
- **Trailblazing New Approaches to Light Foundations** - Aaron Gallant, PhD, PE, *Associate Professor, University of Maine*
- **Foam Glass Aggregate Use, Interstate 395/Route 9 Connector Project** - Erin Force, *Project Manager & Senior Engineer, Haley & Aldrich, Inc.*

4:45 pm: Closing Remarks Dale Peabody, P.E.

6:30 pm: Advisory Board Dinner – invitation only

Thursday, August 10, 2023
Day 3

8:00 am – 9:30 am: Check-in, Poster Session, Exhibits – Light refreshments

9:30 am: Welcome - Dr. Habib Dagher

9:45 am: Plenary Session 4: Autonomous Vehicles and Overcoming Demographic Challenges

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Moderator: Dr. Mandar Dewoolkar, P.E., F ASCE, *Chair & Professor, Civil & Environmental Engineering, University of Vermont*

- **Autonomous Vehicles versus our Roadway and Population Demographics Challenges** - Richard Corey, PhD, *Director, VEMI Lab, University of Maine*
- **Autonomous Vehicles in Rural States** - Jonathan Rubin, PhD, *Director, Margaret Chase Smith Policy Center, University of Maine*

10:45 am: Break

11:00 am: VEMI Tour

12:00 pm: Lunch

1:00 pm: Plenary Session 5: Successful Deployment Initiatives

Moderator: Bill Davids, PhD, PE, *Professor, University of Maine*

- **Successful Composites Deployment and Upcoming Developments** - Joe Stillwell, P.E. *Fabrication Engineer, MaineDOT*
- **AIT Composites Successful Deployments: GArch & GBeam** - Tim Kenerson, P.E., *Vice President of Engineering, AIT Composites*
- **Field Bendable Thermoplastic Composite Rebar** - Roberto Lopez-Anido, PhD, PE, *Professor, University of Maine* & Cody Sheltra, *R&D Program Manager, ASCC University of Maine*

2:30 pm: Closing, Bill Davids, PhD, PE

3:00 pm: ASCC Tour – Pre-registration required