



NETC Advisory Committee Meeting Agenda

DATE: Tuesday, February 28, 2023, 11:00am – 12:00pm ET

Zoom Meeting Link:

<https://us02web.zoom.us/j/88200175148?pwd=RteuDi7AbGUheP7FKGcwdBQICS59C1.1>

Meeting ID: 882 0017 5148 **Passcode:** 749330

1) Open Project Review (February 2023)

Project # and Title	PI, Organization AC Liaison CTC Project Manager TC Chair	Update	End Date Budget
19-1: Curved Integral Abutment Bridge Design	Adam Stockin, WSP E. Parkany K. Seeber Alex Bardow, MA DOT	The PI provided the final deliverables, which are posted on the project page. The project webinar is scheduled for March 16 th at 10:30am ET. Nineteen registrations as of 2/27/23.	1/31/23 \$225,255
19-3: Experimental Validation of New Improved Load Rating Procedures for Deteriorated Unstiffened Steel Beam Ends	Simos Gerasimidis, UMass Amherst N. Zavolas K. Seeber Matt Weidele, MA DOT	The PI has submitted the amendment request for an extension to 1/31/24 to MaineDOT. The research team has tested a total of eight beams (two from CT, five from ME, one from ?). The next five beams are scheduled to be tested in the next two-three months. The research team has been focusing on the Finite Element modeling of the previous experiments.	3/31/2023 \$179,995
20-2: Current Status of Transportation Data Analytics and a Pilot Case Study Using Artificial Intelligence (AI) Speed Collection on Horizontal Curves	Yuanchang Xie, UMass Lowell E. Parkany K. Seeber Susan Klasen, NH DOT	The PI has submitted the amendment request for an extension to 12/31/23 to MaineDOT. The research team completed the testing of both radar and camera systems and are ready for the field data collection. They will reach out to NHDOT and finalize the date for the first data collection trip. They also developed several ideas to analyze the trajectory data to be collected. The next TC meeting is scheduled for 5/4/23.	3/31/2023 \$200,000
20-3: Investigating Thermal Imaging Technologies and Unmanned Aerial Vehicles to Improve Bridge Inspections	Kevin Ahearn, AECOM D. Peabody K. Seeber John "Sam" Maxim, ME DOT	The PI is requesting a three-month extension to the project to allow for in-person demonstrations/training to DOT staff at each agency in April/May. The final deliverables would be completed in June.	3/31/2023 \$174,931

Project # and Title	PI, Organization AC Liaison CTC Project Manager TC Chair	Update	End Date Budget
21-1: Quality Review and Assessment of Pavement Condition Survey Vehicle. Data Across New England	Gonzalo Rada, WSP A. Mroczkowski K. Seeber John Henault, CT DOT	The TC is reviewing the site control selection tool and providing feedback to the research team. The TC is scheduled to meet on 3/10/23 to discuss the feedback.	7/31/23 \$174,932
21-3: Initiating Seed Production for Effective Establishment of Native Plants on Roadsides in New England	Julia Kuzovkina, UConn D. Nash K. Seeber Arin Mills, NH DOT	The research team is working with CT, MA and VT, to find locations for demo plots. The next quarterly meeting will be held on 3/7/23.	6/30/24 \$200,000

2) Implementation

- TAAC members to report on any implementation activities for recently closed projects.
- Kirsten will send quarterly reminders to the TAAC to add information/activities to the implementation spreadsheet. Kirsten sent the first reminder on 1/22/23.
- How can additional states use/implement the results of completed NETC projects?
 - Could NETC hold a webinar featuring a category of projects? TAAC could members invite SMEs from their agencies to attend the webinar.
 - Possible options:
 - Other category
 - ~ [20-4: Coordinating State Policies, Laws and Regulations for Automated Driving Systems Across New England](#) follow up to [17-1: Quick Response: New England Connected and Autonomous Vehicles](#) – This could be a good category but is it already being covered by the Eastern Transportation Coalition and other groups?
 - ~ [18-3: Integration of Unmanned Aircraft Systems \(UAS\) into Operations Conducted by State Departments of Transportation](#) NH is pursuing a UAS implementation plan that will build off this project and be specific to their needs. VT will use this project to look at new platforms, as a starting point to fill in gaps in their existing UAS procedures and workflows, and as a reference for future discussions in the peer group.
 - ~ [17-2: Quick Response: Quantification of Research Benefits](#) – CT intends to implement this tool where research results are quantifiable. NH and VT are investigating how to quantify project benefits to utilize the tool.
 - ~ [14-1: Measuring the Effectiveness of Competency Models for Job Specific Professional Development of Engineers & Engineering Technicians](#) - – CT feels this project will serve as an excellent foundation for future regional efforts.

Materials and Pavements category

- ~ [18-2: Framework of Asphalt Balanced Mix Design \(BMD\) for New England Transportation Agencies](#) - VT will implement aspects of this project. VT will base their pass/fail criteria for performance test results during mix design review/approval on the anticipated traffic loads, at least for Hamburg results. NH feels the lowest level of BMD may be realistic and beneficial for to implement at some point in the future. The Connecticut Advanced Pavement Lab is building a library of BMD test results, which will

be implemented once the library is complete.

- ~ 15-4: [Quality Assurance \(QA\) Processes for Asphalt Pavement Construction in the Northeast](#) - VT is rewriting their main HMA specifications (Sections 406 and 407) to accommodate a tiered approach and is incorporating some of the recommendations from this research. CT already has some of the project recommendations in place and will be implementing others based on a number of factors. MA would implement if there was a regional effort.
- ~ 15-3: [Moisture Susceptibility Testing for Hot Mix Asphalt Pavement in New England](#) - This research reinforced MA's decision to remove the TSR moisture test from its requirements and to move towards the Hamburg Wheel Tracking Test. VT is also moving towards using the Hamburg Wheel Tracking Test to determine moisture susceptibility. ME has partially implemented the results of this study. NH says the project confirms what they are already doing, and CT may consider implementation in the future.

Bridges and Other Structures category

- ~ 18-1: [Development of MASH Computer Simulated Steel Bridge Rail and Transition Details](#) – VT's S-360 series standards for the NETC 2-Rail bridge rail and approach rail are being updated to reflect the findings in the study by VT. S-361 series NETC 3-Rail bridge rail and approach rail are being developed.
 - 20-1: [In-Service Performance Evaluation of NETC Bridge Railings](#) – Follow up project to 18-1. Nothing in the spreadsheet about implementing this project.
- ~ 13-1: [Development of High Early-Strength Concrete for Accelerated Bridge Construction Closure Pour Connections](#) - ME feels the results would allow them to specify this type of concrete without using an expensive proprietary mix. However, the use of fly ash in the mix is sometimes hard to acquire.

Traffic Operations, Safety and ITS category

- ~ 15-2: [Using the New SHRP2 Naturalistic Driving Study Safety Database to Examine Safety Concerns for Teens and Older Drivers](#) - This study confirmed for five states that older drivers tend to have more crashes as signalized intersections. These states will use the information as a basis for further research and/or as information to share with older drivers.

Energy and Environment category

- ~ 15-1: [Use of Forested Habitat Adjacent to Highways by Northern Long-Eared Bats \(and Other Bats\)](#) - MA will use the project's results to continue coordination with the U.S. Fish & Wildlife Service, FHWA, and MassWildlife on developing appropriate methods to protect rare bats through our transportation activities. CT and NH feel further data collection and research would be helpful in using the models developed in this project.

Construction and Specifications category

- ~ 13-3: [Improved Regionalization of Quality Assurance \(QA\) Functions](#) – CT feels this project will serve as an excellent foundation for future regional efforts.
- Potential webinar topic
 - ~ Dale – 09-03: [Design, Fabrication and Installation of ACM Bridge Drain System](#) - ME is using these as a standard practice, which is a full implementation. This would be a compelling story to tell especially if other NE states are not using them. ME has talked

with NH about using them.

- **Action item:** Kirsten will find specific projects and reach out to the TAAC members to see if they have a success story. Kirsten will move this item to March.
 - ~ Emily – The materials folks are probably among the most engaged through the six states and disappointingly this is the only category with similar-ish projects.
 - ~ Emily – It may be a good time to ask the six states what they're doing with Balanced Mix Design and whether the NETC project has had an impact. BMD is likely a hot topic for all six states.
- If TAAC members knows of Tech Transfer Activities for any project, please let Kirsten know so she can add them to the project's web page.

3) Spring 2023 Topical Discussion Symposiums

- A monthly series of virtual in-depth Topical Discussion Symposiums this spring designed to bring together SMEs from the New England transportation agencies around specific topics. Topics:
 - Animal Vehicle Collision Avoidance
 - Asset Management for ITS
 - e-Construction for Pavements
 - Geotech
- Animal Vehicle Collision Avoidance
 - Planning Team met on 2/17/23.
 - Looking at a May date for their event.
 - The group is focusing on three subtopics and has a volunteer lead for each.
 - ~ Mitigating the effect of collisions on reptiles and amphibians – Chris Slesar, VT
 - ~ Implementation strategies for wildlife avoidance – Richard Bostwick, ME
 - ~ Data collection/FHWA initiatives and support – Rebecca Martin, NH
 - Format - The group is leaning towards the symposium style (presentation, Q&A, small group breakouts, report out to large group).
- Asset Management for ITS
 - Planning Team met on 2/22/23.
 - Looking at a May date for their event.
 - The group is considering several subtopics and has volunteer leads for each.
 - ~ GIS – Are agencies leaning towards integrating their assets into GIS and at what level of detail? – Lou Lamoureux, MA
 - ~ Integration with agency's full Asset Management System – Mark Gerrish, Derek Lyman, Ryan Knapp, VT
 - ~ Work order systems – Susan Klasen and Kody McCarthy, NH
 - ~ Labels – Lou Lamoureux, MA
 - ~ Inventory – Budget vs. Maintenance – Susan Klasen and Kody McCarthy, NH
 - Format – The group is leaning towards a panel format (states providing short updates on their status with each topic and then a Q&A with the large group).
- Geotech
 - Planning Team met on 2/23/23.

- Looking at a June date for their event.
- The group is focusing on three subtopics and has volunteer leads for each.
 - ~ Geotech Asset Management – Callie Ewald, VT and Kate Maguire, ME
 - ~ Geophysics – Steve Madden, VT
 - ~ UAS topics (Geotech investigations, challenges of implementing, construction, utilizing with rock slopes) – Krystle Pelham, NH
- The group is considering the symposium style and/or a panel style depending on the topic.
- e-Construction for Pavements
 - Planning Team meets on 3/3/23.
- Kirsten has scheduling polls out to all three planning teams for the next planning meeting and for an event date.

Full list of volunteers

NETC Topical Discussion Symposium Series - Spring 2023		
Topic	Volunteer	State
Animal Vehicle Collision Avoidance	Christopher Samorajczyk	CT
Animal Vehicle Collision Avoidance	Richard Bostwick	ME
Animal Vehicle Collision Avoidance	Dale Peabody	ME
Animal Vehicle Collision Avoidance	Rebecca Martin	NH
Animal Vehicle Collision Avoidance	Dee Nash	NH
Animal Vehicle Collision Avoidance	Chris Slesar	VT
Asset Management for ITS	Anthony Colangelo	CT
Asset Management for ITS	Louis Lamoureux	MA
Asset Management for ITS	Chester Osborne	MA
Asset Management for ITS	Susan Klasen	NH
Asset Management for ITS	Kody McCarthy	NH
Asset Management for ITS	Dee Nash	NH
Asset Management for ITS	Russell Holt	RI
Asset Management for ITS	Derek Lyman	VT
Asset Management for ITS	Mark Gerrish	VT
Asset Management for ITS	Rayn Knapp	VT
Asset Management for ITS	Emily Parkany	VT
e-Construction for Pavements	Jarrett Moore	CT
e-Construction for Pavements	Brian Kelleher	MA
e-Construction for Pavements	Dale Peabody	ME
e-Construction for Pavements	Ulrich Amoussou-Gueno	ME
e-Construction for Pavements	Pat Colburn	NH
e-Construction for Pavements	Dee Nash	NH
e-Construction for Pavements	Ryan Darling	VT
Geotech	Robert Pion	CT
Geotech	Mike Glovasky	MA
Geotech	Mike Roach	MA
Geotech	Jennifer Rauch	MA
Geotech	Kate Maguire	ME
Geotech	Dee Nash	NH
Geotech	Krystle Pelham	NH
Geotech	Callie Ewald	VT
Geotech	Steve Madden	VT
Geotech	Emily Parkany	VT

4) Other Business

- Reschedule the April and May 2023 meetings – Kirsten will not be available
 - April 25, 11:00am – 12:00pm ET
 - May, 23, 11:00 – 12:00pm ET

5) Adjourn

Next meeting: March 28, 2023, from 11:00am – 12:00pm ET