



NETC Advisory Committee Meeting Minutes

Tuesday, December 20, 2022, 11:00am – 12:30pm ET

Attendees:

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|----------------------------------|----------------------------------|
| Ulrich Amoussou-Guenou, MaineDOT | Lily Oliver, MassDOT |
| Alex Bernier, UConn | Dale Peabody, MaineDOT |
| Matt Mann, UMTC | Kirsten Seeber, CTC & Associates |
| Tanya Miller, VTrans | Nicholas Zavalas, MassDOT |
| Dee Nash, NHDOT | Melanie Zimyeski, ConnDOT |
| Emily Parkany, VTrans | |

1) Open Project Review (December 2022)

| 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 | TC meeting held on 12/16/22 to discuss the guidelines and the draft final report. The research team will revise both deliverables based on TC feedback and deliver by 12/28/22, with TC final feedback by 1/10/23. The Fact Sheet and Poster will be sent to TC for feedback by 1/6/23. Kirsten will work with the PI to schedule the project webinar. | 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. Zavalas K. Seeber Matt Weidele, MA DOT | The PI will submit the amendment request to MaineDOT soon. The research team has tested a total of seven beams (two from CT and five from ME) and are preparing for the eighth experiment. The team has focused on the scanning methods the past month. The eighth beam test is scheduled for 12/21/22. The PI did not send amendment request in October. This is on Kimbalie Lawrence's list to process at the beginning of the year. | 3/31/2023 \$179,995 |

| Project # and Title | PI, Organization AC Liaison CTC Project Manager TC Chair | Update | End Date Budget |
|---|--|--|------------------------|
| 20-2: Current Status of Transportation Data Analytics and a Pilot Case Study Using Artificial Intelligence (AI) | Yuanchang Xie, UMass Lowell E. Parkany K. Seeber Susan Klasen, NH DOT | The PI sent an NCTE request to MaineDOT on 12/14/22 to extend the project to 12/31/23. The research team has finalized the list of data collection sites for the vehicle trajectory data collection and modeling pilot project and should be able to start the field data collection soon. The next TC meeting is scheduled for 1/23/23. | 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 submitted the DFR on 12/2/22. A TC meeting is scheduled on 1/9/23 to discuss. | 3/31/2023 \$174,931 |
| 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 PI sent the draft of the control site selection tool to the TC on 12/19/22. The associated draft guidelines will be sent in mid-January. A TC meeting will be held on 1/25/23 to discuss both. | 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 TC held their quarterly meeting on 12/6/22. The group focused on the three demo plots, including site locations, planting methods and working with the DOTs where the sites will be located. The research team will have the sites and seed mixes determined for the next TC meeting on 3/7/23. | 6/30/24 \$200,000 |

2) Implementation

- TAAC members to report on any implementation activities for recently closed projects.
- Kirsten sent the implementation spreadsheet to the TAAC on 9/26/22. New projects added:
 - [NETC 20-4: Coordinating State Policies, Laws and Regulations for Automated Driving Systems Across New England](#)
- Kirsten sent a full implementation spreadsheet to the TAAC with all projects, including the in progress projects, on 10/25/22.
- 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.
 - **Action item: Kirsten will review the completed projects to find some that have implementation activities, and or a category of projects, that might make a good webinar.**
- 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.
 - Andrew sent an update of CT's implementation activities to Kirsten on 11/23/22. Kirsten updated the implementation spreadsheet.
- **Action item: Kirsten will ask the TAAC members if they have updates prior to the Advisory Committee meetings, to help them think about implementation.** Send reminder in mid-January before the next meeting.

3) Financials – Dale Peabody

- Fund balance = \$2,734,258.75
 - \$2,678,899.04 under contract.
 - \$1.6 million spent.
 - \$1 million to spend.
 - \$55,359.71 unobligated.
- All states are up to date on transfers.
- Project 20-2 has two deliverables that should be invoiced soon for about \$100,000.
- Project 21-3 won't invoice for Task 1 until March. Kirsten asked the PI to outline the hours/funds used so far to see where the project is at.
- Project 19-3 is behind on deliverables. No invoices have been sent yet.

4) Wrapping up the pooled fund study – ongoing topic

- TAAC members to discuss ways to utilize the remaining funds prior to the end of the pooled fund on 12/31/24. There is an estimated \$98,000 to spend on new activities.
- A subgroup of the Advisory Committee (Dale, Emily, Dee and Nicholas) met on 12/12/22 to come up with options for new activities.
 - The group proposed a series of virtual, in-depth topic discussions with Q&As/discussion that would bring together SMEs from the New England states. The events can be a springboard for SMEs to communicate with each other and potentially form their own groups around the topics.
 - The first three topics would be decided and scheduled now and the last three would be discussed this summer.
 - An important part of the planning for these events would be identifying at least one enthusiastic SME for each topic who would guide the development of each event.
 - Emily – Dream is to have NETC Symposium Series on X dates. Three topics now to advertise together. Then three additional topics in the fall. Brand the series and get attendees to put the series on their calendars. Get additional topics from SMEs in the summer. Send the save the dates now.
 - Dale – Consider SME groups that are already formed around a topic and maybe not feature that topic. This is a challenge.
 - Dee – SMEs that took the time to comment during the survey might be our excited SMEs.
 - Dale – The TAAC doesn't have to choose the topics suggested in the SME survey.
 - Matt – Asset management. Start general and drill down to more specific topics, such as traffic.
 - Dale – Asset management and ITS could have some value. ME and NH have talked ITS before. There is no forum for the New England states to discuss ITS issues.
 - Alex – eConstruction – Look at national topics and see how it affects the New England region.
 - Dee – Patrick Colburn would be good. He just attended an eConstruction peer exchange. Dee can approach the NH staff who responded to the survey and listed this topic: Patrick Colburn and Krystle Pelham.
 - ~ Emily – Specificity regarding topics should come from the SMEs that want to volunteer. The volunteers can craft the format of the event and the topics.

- Dale – If we do six topics then one option is to have each state sponsor a topic.
- Geotech – Is there a New England SME group established for this topic?
- Animal Vehicle Collision Avoidance – IJJA money related to this topic. A June 2023 meeting in Burlington will address this so would this be a valuable topic? Dee – NH has a research project on this topic and will have a part two to the project. NH staff would be willing to contribute to this topic. The NH person on the research project is attending the June 2023 event.
- Emily – Can we look at schedule now? What would interest folks.
 - ~ Dee – Monthly
 - ~ Alex – 10am – 2pm
 - Emily – With a lunch break or a lunchtime activity.
 - ~ Dale – The lead SME should be a part of this discussion to ensure they are available to participate.
- Dale’s suggested topics – Asset management for ITS, Animal Vehicle Collision Avoidance, eConstruction for pavements
 - ~ Dee would replace Asset Management with Geotech.
 - ~ Emily – Agrees with what has been said.
- Send an email to the SMEs survey responders plus additional SMEs with the four suggested topics listed above. Suggest three Tuesdays in March April and May. For these four topics, request volunteers and ask what month would work for them. See what we would get back by second week in January.
 - ~ Dale will talk to the ME survey respondents. The email won’t have enough details in it so he will discuss the request with them to answer questions.
 - ~ Emily – Send links to what we did for the previous Symposiums. Symposium link: <https://www.newenglandtransportationconsortium.org/2022-bridges-and-pavements-symposium/>
 - ~ Emily – The email should list suggested dates and ask which topic the SMEs are interested in helping plan and the suggested dates that work for them. We can eliminate topics that we don’t receive an enthusiastic response.
- **Action item: Kirsten will draft the email for the TAAC to review and send to their SMEs. Kirsten will send a list of all survey respondents, separated out by state, and the topics they selected.**
 - ~ This could help define the second set of topics later in 2023.
- Melanie/Andrew – Sounds good to them to see what’s proposed and see if any SMEs expand on the topics or add new ones.
- Alex – Could certifications for PDHs be offered for these events? This would help increase attendance from NYS specifically. Emily – Note who attended to help with their licensing. **Alex would help with this.**
- Listed below are the top topics voted on by respondents across activity types. Names indicate respondents that suggested something related to the topics, or wrote them in as a top priority, and they may be candidates for assisting with the topics, if selected.
 - Construction

- ~ Timothy Boodey, Principal Engineer, NH. Accelerated Bridge Construction
- ~ Richard Bostwick, Biologist, ME
- Bridge Maintenance
 - ~ James Costigan, Assistant Transportation Engineer, ME
- Asset Management
 - ~ Susan Klasen, TSMO Administrator, NH. Asset management related to traffic ops.
- Low Carbon Concrete
 - ~ Richard Mulcahy, Materials Field Control Engineer, MA
 - ~ Timothy Boodey, Principal Engineer, NH
- Climate resiliency
 - ~ Richard Bostwick, Biologist, ME
- E-Construction
 - ~ Patrick Colburn, Construction Services Engineer, NH
- Safety
 - ~ Susan Klasen, TSMO Administrator, NH
- Top topics written in by respondents as added topics or listed as a top priority. The suggesting respondents are listed, and they may be candidates for assisting with the topics, if selected.
 - Alternative Supplemental Cementitious Materials for Concrete
 - ~ Richard Mulcahy, Materials Field Control Engineer, MassDOT
 - Ultra High Performance Concrete
 - ~ Richard Mulcahy, Materials Field Control Engineer, MassDOT
 - Animal Vehicle Collision Avoidance
 - ~ Richard Bostwick, Biologist, ME
 - UAVs
 - ~ Kay Hopper, Civil Engineer, VT
 - Geotechnical
 - ~ Pete Connors, Geotechnical Engineer, MA
 - ~ Krystle Pelham, Engineering Geologist, NH

5) Other Business

6) Adjourn

Next meeting: January 24, 2023 from 11:00am – 12:00pm ET