



NETC Advisory Committee Meeting Minutes

Tuesday, October 19, 2021, 11:00am – 12:30pm ET

Attendees:

Ulrich Amoussou-Guenou, MaineDOT	Emily Parkany, VTrans
Alex Bernier, UConn	Dale Peabody, MaineDOT
James Bryce, UME	Ann Scholz, NHDOT
Matt Mann, UMass	Kirsten Seeber, CTC & Associates
Tanya Miller, VTrans	James Sullivan, UVM
Andrew Mroczkowski, ConnDOT	Nicholas Zavalas, MassDOT
Dee Nash, NHDOT	Melanie Zimyeski, ConnDOT
Lily Oliver, MassDOT	

1) Open Project Review (October 2021)

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 next TC meeting is scheduled for 10/27/21 to review Task 2 (finite element studies) and Task 3 (design guidelines).	3/31/2022 \$151,316
19-2: Multi-Scale Multi-Season Land-Based Erosion Modeling and Monitoring for Infrastructure Management	Aimee Mountain, GZA A. Scholz K. Seeber Neil Olson, NH DOT	Final presentation/meeting is scheduled for 11/3/21. The AC members are welcome to attend the final presentation, but they should make sure the TC members get to ask their questions.	2/28/2022 \$148,035
19-3: Experimental Validation of New Improved Load Rating Procedures for Deteriorated Unstiffened Steel Beam Ends	Simos Gerasimidis, UMassAmherst N. Zavalas K. Seeber Matt Weidele, MA DOT	The Task 1 report is complete. The PI has received beams from CT, ME and VT. The next TC meeting is scheduled for 12/16/21. The PI is reallocating the budget to provide more graduate student hours.	3/31/2023 \$179,995

Project # and Title	PI, Organization AC Liaison CTC Project Manager TC Chair	Update	End Date Budget
20-1: In-Service Performance Evaluation of NETC Bridge Railings	Christine Carrigan, RoadSafe D. Peabody K. Seeber Jeff Folsom, ME DOT	The PI has produced Task 3 (In-Service Performance Evaluation) reports for ME, NH and RI. The TC is meeting on 10/21/21 to provide comments.	6/30/2022 \$119,978
20-2: Current Status of Transportation Data Analytics and A Pilot Case Study Using Artificial Intelligence (AI)	Yuanchang Xie, UMass Lowell A. Scholz K. Seeber Susan Klasen, NH DOT	The TC met on 10/1/21. The PI will send the draft Task 1 (Review of current data collection and utilization practices) report by the end of October for review.	3/31/2023 \$179,995
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 has begun Task 2 (Field demo of chosen IR/UAV models and data analysis).	3/31/2023 \$174,931
20-4: New England Connected and Automated Vehicle Legal and Regulatory Assessment	Greg Rodriguez, Stantec E. Parkany/N. Zavolas K. Seeber Daniel Sullivan, MA DOT	The TC meets monthly. The PI has sent several working docs to the TC for review and feedback. The next TC meeting is 10/28/21.	12/31/2021 \$153,746
Re-Creating NETC	Kirsten Seeber/Chris Kline, CTC & Associates A. Scholz K. Seeber A. Scholz	Discuss in the Next NETC Pooled Fund section below.	8/12/2021 \$50,000
21-1: Quality Review and Assessment of Pavement Condition Survey Vehicle Data Across New England	TBD A. Mroczkowski K. Seeber John Henault, CT DOT	Six proposals were received. The scoring meeting was held on 9/16/21. The award letters were sent and a cost proposal has been requested from the selected researcher.	18 months \$200,000 proposed
21-2: Sustainable Biomass-Based Sealant for Service Life Extension of Concrete Structures and Pavements	TBD U. Amoussou-Gueno K. Seeber Joe Stilwell, ME DOT	One proposal was received. Joe Stilwell sent an email to the TC to determine if they want to go forward with the proposal. A biomass concrete sealer (PoreShield) was developed in Indiana several years ago.	24 months \$210,000 proposed
21-3: Initiating Seed Production for Effective Establishment of Native Plants on Roadsides in New England	TBD A. Scholz K. Seeber Arin Mills, NH DOT	Two proposals were received. The scoring meeting was held on 10/13/21. A cost proposal has been requested from the selected researcher.	36 months \$200,000 proposed

Discussion:

- 20-3 – The PI asked if it's okay to present on the project. Dale told him that's fine as long as he mentions that this is an NETC project.

- 20-4
 - ~ Emily – There is a concern that the research team may not have the right emphasis within the tasks. Two TC members are meeting with Greg (PI) to discuss this.
 - ~ Emily – The PI is supposedly sending a draft final report next week. The question is what the realistic deadlines are for the TC sending comments back to the research team. Dale – Emily should remind Greg that the project end date is 12/31. Dale asked him if he needs a NCTE and he said no. ME needs to do the paperwork now if he changes his mind.
- 21-1
 - ~ Dale – ME dropped the ball on requesting the cost proposal for this project. Kim (Contracts) may have it now or will have it soon. Dale will follow up with Kim.
- 21-3
 - ~ Dale – UMass Lowell had sent an NETC problem statement for this (to Joe Stilwell). Turns out that the IN Soybean Association partnered with IN DOT and Purdue about 10 years ago to develop a soybean-based biomass concrete sealer. They have a patent on it and have licensed it to several manufacturers. We only received one proposal. Dale talked with Joe Stilwell (TC Chair) to see if this project is duplicating what's already been done. Joe is reaching out to the TC to get their input on the project. Dale hopes the TC provides a solid recommendation on this project as ME will need a good justification for the project to proceed.
 - ~ Ann spoke with the NH TC member. And he is more inclined to do a comparison with low environmental impact products and what they use now. They are trying to get NETPEP to do more testing on the low environmental impact products. Maybe the thrust of the project will change into this.
 - ~ Dale – If the project is revised, a new RFP will need to be posted.
 - ~ Vinka works with sustainable approaches and can provide input on this.
 - ~ Kirsten will send the Joe Stilwell email to the TAAC members.

2) Implementation

- TAAC members to report on any implementation activities for recently closed projects.
- Kirsten sent the implementation spreadsheet to the TAAC on 5/11/21. No further updates have been received.
 - ~ NETC 18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details
 - ~ NETC 18-2: Framework of Asphalt Balance Mix Design for NE Agencies
 - ~ NETC 18-3: Integration of Unmanned Aircraft Systems into State DOTs

3) Website Implementation and Tech Transfer activities on project pages

- Kirsten will start populating the project pages with implementation and tech transfer activities.

4) Next NETC pooled fund study

- The TAAC will meeting on 10/22/21 meeting at 10:30am for 90 minutes to further discuss.

5) Symposiums Update

- The Transportation Winter Maintenance Symposium was held on 9/29/21.
 - ~ Emily – Definitely learn from the efforts to put it together.
 - The two local MA presenters were good and captured the attention of the attendees with their winter maintenance experience.
 - ~ Dale – Participation from the municipalities was good. He was the only one from ME to attend. Thought it went well.
 - ~ Dee – Lot of discussion in the groups. Sharing of information. Beneficial to participants.
- Subtopics:
 - ~ Winter Maintenance Command and Control
 - ~ All About the Liquids
 - ~ Winter Performance Measures
 - ~ Winter Maintenance Resources
- Twenty-eight attendees.
- Good discussion in breakout groups.
- CTC is finalizing the presentation recordings on the [symposium page](#) on the NETC website. Kirsten will send a link, along with the attendees' names/emails to the attendees. Volunteers for the 2022 Construction Symposium planning committee?
 - ~ Dale , Matt and Emily volunteer.
- ME SME volunteers – Devin Anderson and Travis Hamel - MaineDOT's Bridge Construction Area Engineers
- Kirsten will send an email to TAAC to get volunteers (SME) from their states.
- Emily – Focus on bridge construction or other topics? Dale would like to open it up.
 - ~ Ann – E-ticketing guy that she will reach out to see if wants this as a topic.
 - ~ Emily – There could be a pavement day and a bridge day, with subtopics within them. We can follow the same format but we don't have to. There could also be a third day with another topic.
 - ~ Dale – All options on the table and it will depend on who they get for folks to help organize the event.
- Zoom worked well. Having a technical person on standby is a good idea.

6) Other Business

7) Adjourn

Next meeting: November 16th, 2021 from 11:00am – 12:30pm ET