



NETC Advisory Committee Meeting Minutes

Tuesday, December 14, 2021, 11:00am – 12:30pm ET

Attendees:

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

1) Open Project Review (December 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 PI is submitting the Task 3 report (design guidelines) and draft final report (Task 4) to the TC on 12/23/21. Kirsten will schedule the next TC meeting.	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	The project webinar was held on 12/14/21. Nineteen people attended.	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 next TC meeting is scheduled for 12/16/21.	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 is working on Task 3 (ISPE evaluations) and has started on Task 4 (draft final report).	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 provided comments for the Task 1 (Review of current data collection and utilization practices) draft report. The next TC meeting will be scheduled for next quarter.	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 next TC meeting is scheduled for 12/16/21.	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 sent a draft final report for the TC to review by 1/7/22. The next TC meeting is 12/16/21. ME is working on the contract amendment to extend the project to 3/31/22.	3/31/2022 \$153,746
Re-Creating NETC	Kirsten Seeber/Chris Kline, CTC & Associates A. Scholz K. Seeber A. Scholz	CTC is working on the draft final report to send to the TAAC for review.	8/12/2021 \$50,000
21-1: Quality Review and Assessment of Pavement Condition Survey Vehicle Data Across New England	?, Wood Environment & Infrastructure Solutions A. Mroczkowski K. Seeber John Henault, CT DOT	ME is working on the signatures for the contract.	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	Dale, Joe Stilwell and some TC members are meeting with PoreShield to learn about their biomass sealer on 12/16/21. The direction of the project will be determined after this meeting.	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	ME is waiting for documents from the selected researcher.	36 months \$200,000 proposed

Discussion:

- 19-2 – The toolkit should be transferable to the other states. Staff shortages may mean the toolkit has to wait to be utilized at the states since each state has to input their data into the toolkit.
 - Emily – Their TC person is not quite sure this will segue into what VT needs. The webinar recording will be good for staff to listen to help them see if it applies to VT.
- Re-Creating NETC
 - Matt would like to see the final report for this project. That decision will be made once the report is finalized.

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 added Implementation and Tech Transfer sections to two projects: [15-3](#) and [15-4](#).
- Original technical committee members will be listed on project pages, even if they are no longer with the agency.
- Include all positive information related to implementation.
- If an agency clearly states they are not implementing project results, then say that, but don't call out the actual state.
- NETC 15-3: Change the final sentence to say, "One state says the project confirms what they are already doing and two states may consider implementation in the future."

4) Wrapping up the pooled fund study

- CT is considering leading the next pooled fund study. They are collecting information to see if it would be feasible, given their limited staffing. CT is meeting with FHWA the week of 12/20/21 to get answers to questions they have about RFP requirements and contracting.
 - ~ Melanie – CT wanted to make sure they didn't want to be the lead state. They have many questions about the amount of work. She only has two staff for the foreseeable future.
 - ~ Ann – Is the idea the lead state is the contracting state? A new coordinator could do the contracting. Meanie – Once they hold the money can they give it to another state for contracting with a researcher?
 - ~ Dale – Never landed on a good place with Re-Creating NETC, which could dictate the resources the lead state would need.
- CTC is working on the SOW and the hours needed to finish out the management of the pooled fund. CTC will send the documents to Dale and Kim Lawrence (ME Contracts) for their initial review and then to the TAAC.
 - ~ Dale will have a better idea of if, and or how much, the states need to contribute for FFY22. If NETC 21-2 doesn't go through there will be an \$200k in available funds.
- FHWA has extended the current pooled fund [(TPF-5(353))]. All additional work, closeout procedures, contract closures and reconciliation must be complete by 12/31/24. If an agency

decides to lead the next phase, a new pooled fund could start and there would be two running simultaneously.

5) Construction Symposium

- Planning committee: Emily, Dale and Matt
- The AC has discussed three possible days with 2-3 topics each day. The final decision was to have one half-day devoted to bridge construction with three topics and one half-day devoted to pavement construction with three topics.
- Suggested topics in each category so far. (Some of them may be in the wrong top category.)
 - Bridge construction
 - ~ ME – What other states are doing related to extensive cracking, very high strengths, and accelerated schedules? ME may also have the need to find new pozzolans as fly ash will become scarcer as states reduce/eliminate coal burning.
 - ~ MA – Waterproofing membranes, the different types of membranes and the different applications used in transportation.
 - ~ ME – EDC-6 Innovation: [UHPC for Bridge Preservation and Repair](#)
 - Pavement construction
 - ~ VT/MA – EDC-6 Innovation: [e-Ticketing and Digital As-Builts](#) (focus on e-Ticketing)
 - Where are other states at with implementation and how they are using the technology?
 - ~ EDC-6 Innovation: [Targeted Overlay Pavement Solutions \(TOPS\)](#). This includes thin lift overlays, SMA and others.
 - Pavement Solutions – Which states are doing with this initiative?
 - ME – Pavement construction: What are other states doing?
 - MA – Thin-lift Overlays for pavement preservation.
 - ~ CT – Determining whether asphalt based materials are appropriate/perform well for partial depth patching of concrete pavement. Consider exposed concrete application vs. overlaid concrete application.
 - ~ CT – Need for non-proprietary methods to reduce Superpave mix permeability for bridge applications. CT currently developing a bridge wearing course.
 - ~ CT – Need for mixes that reduce reflective cracking in composite applications. CT currently looking at SMA over binder rich HMA layer. A bonus would be looking at the reduction in overlay thickness that can be achieved with specialty mixtures and the benefit/cost. MA also interested in SMA.
 - ~ CT – Study on states using non-tracking tack coat and how they have performed. Look at both tracking reduction and bond strength vs. traditional emulsions.
 - ~ CT – Study on crash reduction achieved with ultra-thin bonded pavement or gap graded pavements vs. Superpave or dense graded mixes.
 - ~ MA – Balanced Mix Design or asphalt mixture aging (could get Dr. Mogawer to present).
 - ~ MA – Influence of the variability of constituent materials on asphalt mixture laboratory and field performance.
 - Dale – Most of these are materials topics that NEMREM could address.
 - Emily and Ann suggested focusing on pavement construction topics to distinguish from NEMREM.
 - Other
 - ~ ME – e-Construction

- ~ NH – Worker safety in work zones.
- ~ MA – FHWA equipment loan of dielectric density equipment and paver mounted thermal profiler (could get FHWA to present on what MA learned from the loan this past summer).
- Symposium dates – Tuesday, February 8 and Wednesday, February 9.

6) Other Business

- Continue with the current monthly Advisory Committee schedule of the fourth Tuesday each month from 11:00am – 12:30pm ET? Yes.
- Update the Fact Sheet and Poster templates with the current NETC logo and color scheme. Should take a couple hours of a CTC designer’s time. Yes, and make sure they are 508-compliant.

7) Adjourn

Next meeting: January 25th, 2021 from 11:00am – 12:30pm ET