

**AGENDA NOTES  
NETC ADVISORY COMMITTEE MEETING**

**DATE:** March 20, 2018  
**TIME:** 8:45 AM – 2:00 PM  
**LOCATION:** NH DOT - Room 205 of Materials & Research building at 5 Hazen Drive, Concord (building to the left of main building)  
**CALL-IN INFO:** Web Meeting Link:  
<https://nhdot.webex.com/nhdot/j.php?MTID=m060c60857b06e01bd86d4f8402568a98> (Meeting Number: 736 919 711)  
 Phone-Only: Call 1-650-479-3208 (Access Code: 736 919 711)

**ATTENDEES (confirmed as of 2/27/18):**

<b>In-Person</b>	<b>Call-in</b>	<b>NETC</b>
Ann Scholz (NH)	Nicholas Zavolas (MA)	Hannah Ullman
Deirdre Nash (NH)	Flavia Pereira (CT)	
Emily Parkany (VT)	Brad Overturf (CT)	
Ian Anderson (VT)	Jo Lima (RI)	
Radha Gomez (MA)	Mike Sock (RI)	
Dale Peabody (ME)	Erik Shortell (FHWA)	
Deane Van Dusen (ME)		

**ITEM**

**1. Ranking Process: 2018 Research Problem Statements – Ann Scholz**

- Yes/No Votes
- Discussion
- Ranking Process (0,1,2,3 scale)
  - *First, the 6 states voted yes or no as a first round of narrowing-down choices. All passed this round except for N18NH3.*
  - *AC members discussed their reasons for/against moving the remaining RPS's forward. Afterwards, the states scored the RPS's on a scale of 0-3 (3=most need). The top RPS's were N18ME1, N18NH1, N18VT5, and N18MA1. The*

*Advisory Committee agreed to combine N18NH1 and N18VT5 in a scope of work since they were similar in many ways. The AC discussed funding the first 3 (including the combined RPS), with plans to evaluate available money to possibly fund a fourth. A motion was passed to approve the top three projects for the 2018 research program.*

- *AC members were asked to start designating who would be on each TAC for the selected RPS's.*
- *See rankings in the table below:*

RPS #	Value	Project Title	CT	MA	ME	NH	RI	VT	Total Yes's	CT	MA	ME	NH	RI	VT	Total Score
			Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		Y/N	0,1,2,3	0,1,2,3	0,1,2,3	0,1,2,3	0,1,2,3	
N18ME1	\$200,000	Development of MASH Computer Simulated Steel Bridge Rail and Transition Details	Y	N	Y	Y	Y	Y	5	3	2.5	3	3	3	3	17.5
N18NH1	\$120,000	Framework of Asphalt Balanced Mix Design for New England Agencies	y	Y	Y	Y	N	Y	5	3	2.5	2.5	3	0	3	14
N18VT5	\$150,000	Integration of Unmanned Aircraft Systems into DOTs	n	Y	Y	Y	Y	Y	5	1	3	2	3	2	3	14
N18MA1	\$200,000	Incorporating Unmanned Aircraft Systems (UAS) into State Transportation Departments	n	Y	Y	Y	Y	Y	5	1	3	2	3	2	2.6	13.6
N18VT2	\$110,000	Leveraging Public Investments in EVSE to Maximise the Extent of Fast Charging Networks	y	Y	Y	N	N	Y	4	3	3	3	1.2	0	3	13.2
N18ME2	\$250,000	Asphalt Binder Fatigue Testing	y	Y	Y	Y	N	Y	5	2	3	3	2.4	0	2	12.4
N18VT3	\$150,000	Development of Radio Frequency Identification (RFID) Technology for Transportation Asset Management	n	N	Y	Y	Y	Y	4	1	2	2	1.8	2	3	11.8
N18VT4	\$150,000	Rapid Detection of Internal Voids in Precast Concrete Elements using Acoustic Emission	n	Y	Y	N	Y	Y	4	1	2	2	1.2	2	2.6	10.8
N18VT1	\$80,000	The Use of Reclaimed Stabilized Base with Different Stabilizing Agents in New England Region	n	Y	Y	N	Y	Y	4	1	2.5	1	1.2	2	3	10.7
N18CT1	\$200,000- \$250,000	Research Benefit Quantification	y	Y	N	N	Y	N	3	3	2	1	1.2	2	1	10.2
N18NH2	\$175,000	Improving Material Selection and Construction Staging Process for Cold Recycled Asphalt Pavements and Performance Tracking of Existing Projects	y	Y	N	Y	N	Y	4	2	2	1	1.8	0	2	8.8
N18MA2	\$300,000	Transportation Network Management for Extreme Hydrologic Events	n	Y	N	Y	N	Y	3	1	1.75	0	1.65	0	2	6.4
N18NH3	\$150,000	Pavement Climate Resiliency and Climate Metrics	n	Y	N	N	N	Y	2							0

- *It was also decided to attempt to pursue three new Quick Response projects (6-month/\$50,000) using the research funds remaining in the current Vermont-led pooled fund. Because of the timing of the current NETC Coordinator Contract with UVM, these projects will need RFP's by mid-April for work that would start about August 1. Topics for the three projects include:*
  - *The TAC for 15-4 (QA for Asphalt Pavements) will be asked if they will put together an RFP for a six-month Phase 1 of this project. The southern NE states expressed great interest in this. The Tri-States find limited value.*
  - *Quantification of Research Benefits— Emily will work with Flavia to put together a six-month version of this problem statement (see ranking in table above).*
  - *Asphalt Balanced Mix Design Phase 1 (NH to draft)*

## 2. Timeline for 2018 RFPs– Hannah Ullman

- *The timeline for 2018 RFPs will be determined by MaineDOT. It is expected that each RFP will allow about 6 weeks for proposal submissions.*

## 3. Quick Response Project Update – Hannah Ullman

- ***Note: Update after meeting: The subaward agreement has been completed, checked and edited, and was received by the winning proposer this afternoon. They are working to complete the necessary sections and are reviewing.***

## 4. Open Project Summary Table – Hannah Ullman

Project # and Title	PI, University	Update	End Date
	AC Liaison		
10-3: Low Temperature and Moisture Susceptibility of RAP Mixtures with Warm Mix Technology	Mogawer, UMass Dartmouth  A. Scholz	Final report, poster, and fact sheet have been submitted and were reviewed for formatting. Requests for changes were sent to the PI; only minimal changes were needed.	5/31/17
13-1: Development of High Early-Strength Concrete for Accelerated Bridge Construction Closure Pour Connections	Brena, UMass Amherst  MassDOT	UVM's Sponosred Projects Administration office is changing the end date of the project to 5/31/18 per the NCE being approved.	12/31/2017  (NCE)
13-2: HMA Mixtures Containing Recycled Asphalt Shingles (RAS): Low Temperature and Fatigue Performance of Plant-Produced Mixtures	Mogawer, UMass Dartmouth  A. Scholz	A draft final report was submitted; comments from the TAC still need to be incorporated.	12/1/17
13-3: Improved Regionalization of Quality Assurance (QA) Functions	Dave, UNH  C. Franco	The PI plans to submit the final report, poster, and fact sheet this week (3/19); the report includes comments from the TAC.	4/2/17 (NCE)
14-1: Measuring the Effectiveness of Competency Models for Job Specific Professional Development of Engineers & Engineering Technicians	Ahmadjian, UMass Amherst  D. Peabody	The NETC Coordination Team reminded the PI of a pending final report. There was consensus by the TAC chair and Maine that the project should end and should not seek a NCE. No response from the PI as to the current project timeline.  When I was digging back through old emails before my time at NETC, I found some communication from Chris requesting that Michael Knodler become the PI of the project. This was during mid-March of 2017. I reached out to Mike to ask about this and he said that he never became PI on the project but that he is now working unofficially with the group to get the project wrapped up.  His estimated timeline for the project was that it would be	12/31/17 (NCE)

Project # and Title	PI, University AC Liaison	Update	End Date
		done in late spring/early summer. Mike was also wondering if he should get more involved in the project based on where things are. The project group last week contacted several HR groups about accessing recent job postings so that they could match them with the core competencies they evaluated. They also want to meet with one or two HR groups to walk through the matrices they developed.	
14-4: Optimizing Future Work Zones in New England for Safety and Mobility	Xie, UMASS Lowell MassDOT	Final report, poster, and fact sheet have been submitted and were reviewed for formatting. Requests for changes were sent to the PI; the report needed some substantial changes to formatting of figures for readability. The PI hopes to have this done this week.	12/31/2017  (NCE Requested)
15-1: Use of Forested Habitat Adjacent to Highways by Northern Long Ear Bats	Foster, UNH D. Peabody	No new updates.	11/30/18
15-2: Using the New SHRP2 Naturalistic Driving Study Safety Databases to Examine Safety Concerns for Older Drivers	Samuel, UMass Amherst D. Peabody	UVM's Sponsored Projects Administration submitted the request for the PI change to be changed on the subaward. The PI held a TAC meeting on March 2 as well and hope to hold another in the first week of April. In March and April there will be review and analysis of SHRP2 data; May preliminary results will be presented; June a report is expected to be completed.	12/31/18
15-3: Moisture Susceptibility Testing for Hot Mix Asphalt Pavements in New England	Dave, UNH D. Peabody	The PI held a TAC meeting on March 9. Following this, the PI is finishing lab testing and data analysis, expected to be finished by the end of March, and he has begun developing recommendations.	7/31/18
15:4 Optimizing Quality Assurance (QA) Processes for Asphalt Pavement Construction in the Northeast	TBD A. Scholz	UVM has not begun a contract for this project. Awaiting results from 13-3 before a decision can be made. The 13-3 TAC was contacted for comments and recommendation on proceeding with 15-4.	TBD

## 5. Fund Balance and Transfers – Hannah Ullman/Dale Peabody

- *Travel funds, coordinator funds, and research funds are all separate from one another.*
- *Travel fund balances:*
  - *CT: \$19,731.65*
  - *NH: \$1,310.43*
  - *RI: \$12,593.53*
- *Coordinator fund balance:*
  - *Current balance: \$73,990.32 (direct funds)*
  - *Projected balance by the end of UVM contract (Feb. 15, 2019): \$15,000*
  - *The coordinator balance will be used for NEMREM (~\$2-3k) and the 17-1 Quick Response workshop (also ~\$2-3k)*
- *Research funds:*
  - *\$65,365.32 direct funds remaining*
  - *With 15-4 funds, \$215,365.32 will be remaining*
  - *A motion was passed to de-obligate 15-4 funds and return them to the overall research fund balance.*
  - *Note: Update after meeting: 15-4 funds were never obligated so the funds are available for other projects*
- *Update on TPF-5(373) –all states are in the process of or have completed their transfers*

## 6. Other Business

- *Negotiating overhead percentage with land grant universities*
  - *Discussion was had on how to negotiate indirect costs with universities.*
  - *One way would be to put the maximum indirect/overhead rate in the RFP, as universities must usually abide by this rate (this is true for UVM as well).*
- *NETC solicitation process for research needs statements*
  - *It was discussed that AC members could start drumming up support in their DOTs for RPS's in advance to the solicitation being released to the universities.*
  - *It was suggested that Advisory Board members either attend regional technical meetings (eg. NEMREM, NE ITS, etc.) and solicit statements/research ideas or ask their staff to solicit ideas when they attend and research is discussed*

## 7. Adjourn

- *Next Meeting – Tuesday, April 24, 2018 from 11:00-12:00*