

# AASHTO Preservation Management Emulsion Task Force (ETF) Meeting Notes

The Heritage Group Innovation Center and Research Lab  
The Quarry  
6320 Intech Way (near 71st Street and I-465), Indianapolis, IN 46278  
**March 31 – April 1, 2026**

## Day 1

### Attendees (In Person)

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**Tuesday March 31st**

**8:00 a.m. – 8:15 a.m. Welcome, Co-Chair, Introductions/ Roll Call and Housekeeping Senger**

Update given to AASHTO Preservation Management Oversight Panel 3/30/26.

November 21, 2025 virtual meeting notes were reviewed.

**8:15 a.m. – 9:00 a.m. ETF Review/Old Business Senger**

- a. Review of Meeting Minutes (November 2025)  
[Emulsion Task Force Minutes 11-21-25](#)

**9:00 a.m. – 9:30 a.m. AASHTO Committee on Materials & Pavements Update**

- a. TS 2a – Emulsified Asphalts **Senger**

Mid year meeting 1/7/26. Scott Nussbaum no longer vice chair. Brian Pfeifer will be retiring soon so will also be stepping down. Seeking new leadership.

T72 passed and will be published.

T78 passed with no comments and will be published.

T 295 passed with no comments and will be published.

- b. TS 5b – Bridge & Pavement Preservation **Ilg**

Not much activity related to emulsions.

- c. TS 2b/5c – Quality Assurance and Environmental **Senger**

Eric was not able to attend, but he sent comments:

- Now that most of the pavement preservation treatments are published as AASHTO standards for materials, mix design, construction guides, QA guides, and any best practices, it may be worth putting them side-by-side and seeing if they jive with each other (definitions, testing, etc.). Since these were done in different stages and probably by different people, it would be worth making them match.
  - I think this applies to layout matching amongst various treatments too (tables, verbiage, formatting, etc.).
  - Including short- and long-pin for CIR/CCPR.
  - Updating AASHTO standards within the standards that were provisionals that are not full standard (editorial).
  - Could be done via NCHRP research (not sure if it's a 20-44 or something else) so it can get done timely.
- Review of QA guides, construction guides, and anywhere else we discuss testing to make sure they are what is really needed (e.g., QC during the construction portion are actual tests that can be done). Example: QA guides for CIR pretty much have QC and QA the same testing and frequencies, which I assume isn't how it should be. I would assume these would be contractor data used for acceptance with agency verifying (QC/QA) or at least I believe the QA guide for CIR is written that way. However, they are missing comparison tolerances (so maybe it's agency only acceptance).

- Poll of industry on how materials are accepted (QC/QA or agency only testing used) may be useful (NCHRP synthesis?) and this could apply to all QA guides. If there is a desire to have QC/QA guides and agency testing only in each guide, that could be done.
- FHWA FP-24 has different frequencies
- Whatever we do we just needs to make sure it meets 23 CFR 637 if it doesn't already and including random sampling, agency acceptance samples being independent, etc.

Maybe a task force between TS 5b and TS 2b/5c would be good to coordinate.

**9:30 a.m. – 9:45 a.m. Updates**

a. ASTM

**Weigel**

Andrew Braham has reviewed and submitted a guide on emulsion asphalt particle size. Rational for Emulsion Harmonization (attachment) was reviewed – AASHTO and ASTM specs and summary of differences.

Should also look at ISSA guides.

b. TFASH

**Weigel**

Asphalt Emulsion Scope:

- Small task group is looking at T59 for opinion on whether it should be converted to make the whole thing a dual unit standard
  - Possibly use Georgene as an AASHTO consultant to assist in making the changes
- Harmonization of the emulsion specification standards is on-going and subcommittee ballots should be out soon for both AASHTO TS2a and ASTM D04.40
  - TFASH passed a poll in December and hoping to present proposed changes at the annual TS2a meeting depending on the outcome of the TS ballot.

Asphalt Binder Scope:

- Harmonization of the DSR and BBR standards should be complete
- Harmonization of the RTFO method is on-going and subcommittee ballots should be out soon for both AASHTO TS2b and ASTM D04.46
- The rotary evaporation procedure was completely updated in D5404
  - Adding additional solvents to this method to eliminate having standards specific to a single solvent
  - Harmonization and training are still needed to ensure labs are recovering the asphalt consistently

c. AASHTO:Resource

**Malusky**

**Thermometer/Temperature Measuring Device Requirements:**

M339-26 will be enforced by laboratory assessors and the AAP when it's published in July 2026.

**Immediate Changes:**

**Liquid-in-Glass Thermometers**

Alcohol liquid-in-glass thermometers are no longer totally banned.

## Thermocouples

Generally acceptable for almost every application, unless the standard specially says no thermocouples. Ensure the maximum measurement error is within the accuracy requirement (if the standard specifies one).

## Thermistors

1. The 120°C cap will no longer be enforced, so go by the manufacturer's range.
2. Thermistors no longer need to be standardized at every 20°C increment, they can be standardized by one of the options below.

## Standardization Guidance for all Types of Thermometers

If the thermometer is:

1. Used only at one point: standardize within  $\pm 5^{\circ}\text{C}$  ( $9^{\circ}\text{F}$ ).
2. Used at multiple points: At least two points over the range of use.
3. Used over a 100+°C range: At least three points over the range of use.
4. Used over 200°C (392°F): Electrical simulation can be used at high temperatures (over 200°C). **Comparison must still be performed below 200°C.**

The AASHTO Accreditation Program has revised its policy on participation in the Unmodified and Polymer Modified and Emulsified Asphalt PSP. Participants will have the option to pick and choose the scheme or schemes they wish to participate in (enrollment in EML and PME is no longer required). It will be up to the specifying agency to verify conformance to the types of material tested.

9:45 a.m. – 10:15 a.m.

### Stakeholder Updates

Hemsley

a. FP<sup>2</sup>

No update

b. AEMA

9-63 in progress.

Working on 5<sup>th</sup> edition of AE manual.

LEAP program is going well.

AEMA website being updated.

Next year's PPRA meeting will feature a presentation from ETF.

c. ARRA

Road Resource.org update in progress.

Developing short application videos.

Developing a specification database.

Pavement Recycling Summit will be October, 50<sup>th</sup> anniversary, at Palace Station in Las Vegas.

d. ISSA

Chris Oaks is new ISSA president for 2026.

Matt Teto updating online training modules.

Involved with FP2 in reauthorization act.

Jaime chairs workshop committee – seeking presenter for emulsions.

Reviewing and revising guidelines.

e. NCPP

See PPT

Would be great if regions could summarize their specs and special provisions.

Potentially look at a "lessons learned" webinar or sessions at partnership meetings. What didn't go well and what did we learn and change.

**10:30 a.m. – 10:50 a.m. ISSA TB Review, Updates and Workshop Hollenback**

2027 is locked in at Palace Station. No more room to grow at this facility so potentially looking at a new venue for 2028.

2027 international workshop in Bogota Columbia.

Updating technical bulletins, will be sent next week.

Creating new guidelines for usage of RAP.

NCAT created a video for TB 118.

**10:50 a.m. – 11:20 a.m. NCHRP 10-124, Chip Seal Embedment Braham**

See PPT

Lot of discussion about sweep test mold.

Wicking and getting the tar paper to stay flat. There are methods to make this work. There are concerns about "rebound" when using the silicone molds.

Agg is oven dried, but this isn't the recommendation for field application, should be damp. Damp agg helps the wicking effect of asphalt emulsion into the agg pores.

Mike H willing to help with the Georgia material.

**11:20 a.m. – 11:30 a.m. AASHTO Product Evaluation and Audit Solutions Howley**

**a. Emulsion Audit Program**

30 states responded to a recent survey, interest in doing an emulsion audit program. Just getting started, have a rough work plan, should be shared soon. Will discuss at April 14 asphalt supplier meeting.

Kelly asked which supplier would be willing to assist on this. Matt Teto volunteered. ETF ready to help with this effort.

**11:30 a.m. – 11:45 a.m. Preservation Study Phase III Ulring**

See PPT.

**12:30 a.m. – 1:15 p.m. SUBCOMMITTEE BREAKOUT SESSION 1**

**# 4 Research Braham**

a. Research Needs Statements

b. Research Ideas



ETF\_NCHRP\_ProblemStatement\_ViscosimStatement\_Combi

See PPT for status of current research projects.

## RNS 1 – Viscosity

Group thinks this is a worthy topic.

Will revise and submit to COMP 2A in early July.

## RNS 2 – Combination Treatments

Lot of interest in this. ISSA has a new online training for combination treatments, but there is not really a nationally recognized document for this.

Will revise and submit to COMP Research group in early July.

Other ideas:

Field sampling for micro and slurry. Viasun does a sort of plate sample. Will review comments from previous submittal, revise and potentially resubmit. Take equipment aspect out.

HiMOD treatments, what is coming, guide specs, etc.

## Topics in the hopper

- Research: Sampling from Micro Surfacing and Slurry Seal Pavers for Quality Assurance Testing (not submitted 2025)
- ISSA did a pooled fund study through NCAT, poor findings from binder content in field test
- Also tried to do field wet tracks – revised TB100 might correlate better?
- Feedback last time: equipment manufacturer issue
- Concern from contractors: when you are pulling material out of the machine before the box, not fully mixed. Need to get it off the ground (but this requires handwork). Could pull it off manhole covers. One contractor did work within 1-2 hours of their research lab, this is not always practical for all contractors.
- If materials burned, need correction factors from aggregate
- We'll take the comments from the review and see if we should move forward
- Take the equipment out. Start with mixes, then identify how to sample them from equipment (safety) – two stages
- Synthesis: Pavement Preservation Equipment and Quality Assurance (submitted 2025, not accepted)
- Synthesis topics due April (probably not tomorrow, but soon...)
- Synthesis: Alternatives to chlorinated solvents for use in asphalt solubility testing, extraction, and other tests (Senger will give update tomorrow, B there or B2)

Others?

- Synthesizing AASHTO documents: material standard, mix design standard, construction guides, QA guides, best practices □ put side by side to ensure consistency
- HiMOD treatments, can “HiMOD” from the asphalt mix world be translated to emulsion materials, move forward with material standard/design/construction/quality/etc

**1:15 p.m. – 1:45 p.m.**

**NCHRP 9-63 EAPG Update**

**Anderson/Cooper**

See PPT

## **SUBCOMMITTEE BREAKOUT SESSION 2**

**2:15 p.m. – 3:00 p.m.**

**#5 Asphalt Emulsion Binders**

**Voth/Weigel**

- a. Non-tracking tack specifications for potential inclusion in AASHTO M 349.

Marla shared [spreadsheet](#) with summary of state specs collected so far for trackless tack.

Discussion on what the top end pen would be to be considered trackless. 20-40 max was the range discussed.

Consensus was trackless be included in the M140/M208, also in material spec M349.

Will discuss at June ASTM meeting. Should have more refinements by December. Let ASTM lead this, AASHTO can follow.

b. Adding shipping & handling guidance for emulsions to AASHTO R 66

Reviewed R66, generally silent on handling guidance other than obvious items (tightly sealed container, don't freeze).

AI has some protocols. Wide mouth containers, ensure container lids well taped with electrical tape, containers in a sealed bag. Best practice is to squeeze out as much air space as possible. Ground shipping is preferred to air due to potential freezing. Induction liner under metal or plastic lid helps leakage. Can include a 3M "temp watch" device so can see if sample was exposed to freezing temperatures. Can also include "hot hands" with shipping container to ensure heat.

c. Support items for Tech Section 2a

d. Support for NCHRP studies

9-63 and 10-114 are main ones coming up. What should ETF's role be? Messaging, promoting implementation. More discussion on method A (48 hours) vs C (6 hours). Producers can't reasonably do the 48 hour method, concern is if agencies run A and producers run C may get different results.

Where would rejuvenator specs land? Are they emulsions, and stay in 2a? Probably so. RC and MC cutbacks are still included.

**3:00 p.m. – 4:00 p.m. #2 QA, Education & Certification Subcommittee Teto**

Need to review QA guides, construction guides, etc where testing is mentioned to ensure they are relevant.

What presentations about training are currently available that can be used for certification?

**Why are** QA guides not published for many of the treatments that we have guide specs and best practices for? What happened to them? Seems there has been a disconnect between ETF and COMP.

**4:00 p.m. – 4:30 p.m. Open Discussion – Close Out Day 1 Hemsley**

## Day 2

**Wednesday April 1st**

### SUBCOMMITTEE BREAKOUT SESSION 3

**8:00 a.m. – 9:00 a.m. #3 Messaging & Implementation Subcommittee Betsold/Brewster**

- a. NCHRP Project Profiles
- b. CCPR and CIR Best Practices
- c. NCHRP Implementation Project Request Update

Had submitted an implementation project to NCHRP for UBWC, **CR, ???**. AASHTO group is now responsible for selecting implementation studies.

Stormy/Bobby not in attendance so no further updates.

Some needs –  
Updating ETF website.

ARRA CR committee is aware and ready for the implementation project.

**9:00 a.m. – 10:00 a.m. #1 Emulsion Treatments Senger/Weigel**

a. Construction Guide Specs – sand seals, UTBWC

More focused on UTBWC than sand seals. Have deliverable but not in AASHTO format, Kelly will revise and send to group for review. Russ Milan has started on “Best Practices” guide. Matt Teto has experience and can assist. AASHTO has a release form for any photos so need to keep that in mind. Not a lot of interest in sand seals, so lower priority.

Arlis suggested a best practice document on combination treatments would be a good deliverable for the group to work on. TRB may be putting an RNS together related to this.

b. Support NCHRP Projects – High Friction and PMM

Proposals have been scored, awaiting contract selection.

c. Best Practice Documents - UTBWC

**10:30 a.m. – 10:45 a.m. TCE Alternatives Update Senger**

See PPT and TCE Guide

NCHRP problem statement was submitted but not picked up.

Alternative solvents – EH is Ethyl Hexanol.

Discussion about alternatives, most using Toluene, or are farming out.

Will work with AASHTO COMP to remove solubility standards. What does solubility give that ash content does not?

Paragon still using, but trying to minimize usage. Monitoring.

Illinois DOT doing monitoring. Asphalt producers utilizing isolated trailers.

**10:45 a.m. – 11:15 a.m. NCHRP 10-114, Rejuvenating Seals Moraes**

Raquel had a car accident earlier in the week, not available to present.

**11:15 a.m. – 11:45 a.m. Industry Concerns/Topics for Discussion Hemsley**

Preservation treatments on rumble strips. Guidance is 1 application, becomes a mumble strip, 2<sup>nd</sup> application requires re-grinding the rumble.

Need a “best practices” to address. Could be a RNS. Preservation and re-establishment. Joel is working on a guidance memo for MnDOT. Will share.

Larry Ilg volunteered to send out a survey. Mike and Kelly will draft.

Andrew would like to make sure ETF is leveraged and engaged with PPRA and TRB.

IBEF has a white paper on asphalt emulsion sustainability.

Reviewed membership, friends list and subcommittees.

Everyone liked having the in-person meeting earlier (March/April) rather than May/June. Heritage willing to keep hosting.

Next meeting will be virtual, target fall.

Ideas for future meetings. New technologies? Choose a theme and have 2-3 folks with different perspectives. What is coming up so we can prepare?

### **Future Meetings**

**Compile** and put in notes

#### Regional Pavement Preservation Partnerships

- Southeast – April 7-9, 2026 Asheville NC
- Northeast – May 5-7, 2026 Springfield MA
- Rocky Mountain West- September 22-24, 2026 Vancouver WA
- Midwest – October 20-22, 2026 Des Moines IA

NRRA – April 29-30, 2026, Minnesota

ISSA Slurry Workshop looking for an emulsion topic – January 18 – 21, 2027 Las Vegas NV

TREAT Mobile Lab

- May 26-28, 2026 Tyler TX
- June 2-4, 2026 Norman OK
- June 23-25, 2026 Otsego MN
- July 28-30, 2026 Salina KS

AASHTO Resource Technical Exchange looking for an emulsion topic for next year's meeting 2<sup>nd</sup> or 3<sup>rd</sup> week of March 2027, Kansas City

NPPC – August 30 – September 2, 2027 Grand Rapids, MI