

AASHTO TSP•2 - Emulsion Task Force (ETF) Meeting

The Heritage Group Innovation Center and Research Lab
6320 Intech Way (near 71st street and I-465), Indianapolis, IN 46278

Nov 30 -Dec 3rd, 2021

November 30th – Day 1

Welcome, Introductions, Roll Call and Housekeeping- Franco, Lubbers

1. Attendees: Mike Anderson, Nathan Awwad, Jody Bachini, Barry Baughman, Bobby Betsold, Rod Birdsall, Stormy Brewster, Shelly Cowley, Steve Cross, Codrin Daranga, Rex Eberly, Andrew Eicher, Colin Franco, Larry Galehouse, Tejash Gandhi, Ken Grzybowski, Greg Harder, Darren Hazlett, Mike Hemsley, Gary Hicks, Chris Hollenback, Larry Ilg, Arlis Kadrmas, Chris Lubbers, Ryan Lynch, David May, Kevin McGlumphy, Russ Milan, Kelly Morse (*remote*), Jim Moulthrop, Brian Pfeifer, Ben Sade, John Senger, Guy Sisler, Stephanie Smith, Matt Teto, Larry Tomkins, Mike Voth, Scott Watson, Marla Weigel, Dave Welborn.
2. Approval of Virtual Meeting Minutes (August 2020) Lubbers
 - Minutes were approved unanimously.

New Subcommittee Alignment - Franco

Some members are retiring. Need to realign subcommittees for phase 2.

Phase two: The ETF has gone through its growth phase having come a long way in fulfilling its mission to further the state of the science and practice of emulsion technology in pavement preservation. It has now matured to a point where a reorganization is necessary; a) to build upon and maintain what has been accomplished, and b) to address the inevitable challenges that lie ahead.

The realigned subcommittees are as follows:

1. Emulsion treatments.
2. Quality Assurance, Education and training and Certification
3. Messaging and implementation.
4. Research.
5. Emulsion binders.

NOTE: Please look to the ETF roster for details on subcommittee alignment and assignments and reach out to committee chairs or co-chairs to join a subcommittee.

- ETF is working with NCPP on the NCHRP implementation Program 20-44(26).
The ETF's I&M subcommittee has members on the panel of 20-44(26)
- There is a rejuvenator project NCHRP 10-114 that Colin is the panel chair.

Subcommittee Co-chair Updates

1. Emulsion Treatments - Pfeifer, Franco [Standing in for Kelly Morse (*participated remote*) and Travis Walbeck]
 - a. See 2a updates below.
2. Quality Assurance, Education & Certification - Teto, Galehouse
 - a. Will use NETTCP as a template for training and certification.
 - b. Training and certification will be built from the best practice guide.
 - c. Promoting the need for national certification.
 - i. Franco discussed need for materials certification and audits in addition to employee and contractor certifications.
 - d. Working with NTPEP to develop an audit program for emulsion suppliers. This is almost complete.
 - e. We need to have someone from NTPEP present next at the next meeting about the emulsion work plan. What is the value of this program to the industry? The group has a lot of questions.
3. Messaging & Implementation - Tomkins, Brewster
 - a. Subcommittee goal is to convince DOTs and other agencies to adopt and use ETF Guide Specs.
 - i. Attending industry meetings.
 - ii. Developing training materials.
 - iii. Looking at actual jobs and demonstrations.
 - iv. Survey results of agencies where 12 projects are needed.
4. Research - Hazlett, Sade
 - a. Subcommittee goal is to provide at least 3 Research Problem Statements to COMP (Committee on Materials and Pavements)
 - b. Identify research needs. This will help drive ETF deliverables. The committee has two working groups: Materials and Equipment. Review pavement preservation related research that has been completed within the last 5 years. Equipment research: Review needs and enhancements for construction equipment and pavement condition assessment vehicles.
 - c. Review Research Roadmaps including TSP Research Roadmap (NCPP), MnROAD, FHWA, and NCAT.
5. Asphalt binders - Voth, Lubbers
 - a. Rejuvenators working group.
 - i. Working on Definitions for rejuvenators, NCHRP 10-114, and AASHTO MP 43.
 - b. Modifiers working group
 - ii. NCHRP 9-63, updates to AASHTO M316, polymer modified slurry seals.

AASHTO Committee on Materials & Pavements – Technical Section Updates

1. TS 2a Emulsified Asphalts - Pfeifer
 - Annual meeting in August.
 - Ballot items T59 and T72. These were updated.
 - AASHTO wide effort to standardize temp measurement devices.
 - The 2a standards are being balloted to add the new temp measurement device requirements.
 - A few provisional standards are being balloted to become full standards.
 - The ETF is invited to present at the mid-year meeting of 2a.
2. TS 5b Bridge & Pavement Preservation - Ilg
 - 15 Provisionals that will become full AASHTO standards next year.
 - New guide specs are coming out soon.
 - Some hold up with publication because of inconsistent units but they are being worked on currently and will be available soon. Listing both SI and English units speeds up the process.

Illinois Study on Asphalt Content in Micro Surfacing Mixtures - Senger

- Set out to determine AC content of micro surfacing with T164, effects of the sample container, 3 different aggregates, and if rinsing the sample container influenced the AC content. There were promising results. The preliminary results are posted in the PowerPoint for this session.
- Waiting on the final conclusions before writing up the report.

Presentation-ISSA A-115 Polymer-Modified Slurry Briefing - Rex Eberly

- Reviewed past work on slurry seals and how we got to where we are today.
- There are some differences between A115 and A105/A143 that are noteworthy. Refer to those documents.
- Information about where to use polymer modified slurry seals. See specs.
- A115 is still a draft spec and is awaiting comments from industry and for agencies to begin using it more widely. This is available on the ISSA website for free.

Incentives & Disincentives - Galehouse

- Discussion on how to improve incentives and disincentives. Issues include areas that only have one contractor that do pavement preservation work. We need to continue this discussion. Ideas included trying a positive approach where only incentives are used.

Research Project Updates & New RNS – Hazlett, Sade, Franco

1. NCHRP 9-62 Rapid Tests and Specifications for Construction of Asphalt-Treated Cold Recycled Pavements.
 - This is complete and the report is out. Ongoing work to verify results.

2. NCHRP 14-43 Construction Guide Specifications for Cold Central Plant Recycling and Cold In-Place Recycling.
 - This project is ongoing. The draft spec has been turned in and work on best practice guide continues.
3. NCHRP 14-48 Construction Guide Specifications for Pavement Treatments - Sand Seals and Ultra-thin Bonded Surface Treatments
 - This Will be done via NCHRP 14-46 TRB 's A Hanna is the project officer.
 - Panel has been formed .
4. NCHRP 10-114 Developing Performance and Safety Specifications
 - See details from earlier in the notes for 10-114.
5. There are three statements that were recently submitted. Synthesis of tests for all emulsion treatments, performance test for emulsion /emulsion treatments, and test to determine chip embedment.

NCHRP 9-63 (EA-PG) Update - Mike Anderson

- A presentation was given on progress with 9-63. Work is ongoing to investigate differences between the data from NCAT and AI. The draft EAPG grading spec is being updated with new information as it comes out.

AASHTO Accreditation - Ben Sade

- An update was given on the Proficiency Sample Program (PSP) enrollment and accreditation numbers for emulsion and pavement preservation. There are currently 157 labs accredited for at least one emulsion test. There are 263 labs enrolled in the emulsion PSP sample. Does it make sense to do solubility with trichloroethylene on the emulsion residue anymore? Most everyone is using the ash method.

Best Practice Documents – Tomkins, Brewster

- Chip Seals - are posted on ETF website
- Micro Surfacing - are very close to being finalized. We played a game to learn more of the best practices in the documents

NCHRP 14-44 Guide Specifications for the Construction of Slurry Seals, Scrub Seals, and Tack Coats - Hicks

- An update on the results from agency survey for NCHRP 14-44. The final report for this project will be submitted in March 2022. This will include each of the three construction guides.

December 3rd – Day 2

Concurrent Breakout Sessions - Chairs assigned notetakers for each subcommittee. Notes will be posted on the ETF website.

1. Emulsion Treatments - Pfeifer, Franco (*Standing in for Morse and Walbeck*)
2. Research - Hazlett, Sade
3. Quality Assurance, Education & Certification - Teto, Galehouse
4. Asphalt Binders - Lubbers, Voth

Retirements – Gary Hicks and Jim Moulthop

The men were recognized for their contributions to the ETF. Each man performed countless hours of work to provide deliverables for the ETF. The entire membership thanked them for their service.

NCHRP Project 20-44(26) - Galehouse

- An update was given on the status of the project deliverables, including training and the demonstration projects. The confirmed number of demonstrations stand at 36 projects.

Messaging & Implementation – Tomkins

- An update was given on the M&I subcommittee's progress. The location of the training materials and specifications can be accessed at <http://tsp2-etf.org/>
- A suggestion was discussed of a message board or blog to help answer questions about the various guides or specs. A FAQ section somewhere would help states.

Moving Forward and Subcommittee Expectations – Franco, Lubbers

- There remains a lot of work to be done. Success depends on everyone working within their subcommittees. Good communication is essential.
- Next meeting will be held in May. Plans are to hold the next meeting in Indianapolis and the December meeting in San Antonio.
- A Doodle Poll will be sent in February to schedule the May meeting.

Meeting Adjourned