

## SUBCOMMITTEE ON MATERIALS

2017 Annual Meeting – Phoenix, AZ

Tuesday, August 8, 2017

3:15 p.m. – 5:00 p.m. MST

### TECHNICAL SECTION 4e

#### Joints, Bearings, and Geosynthetics

#### I. Call to Order and Opening Remarks

A. Brief summary of activities *(to ensure all attendees up to speed)*

#### II. Roll Call

Voting Members (attendees and proxies are noted as present):

Name/Members	Agency		Present
Ramirez, Timothy (Chair)	PA	<a href="mailto:tramirez@pa.gov">tramirez@pa.gov</a>	
Benson, Michael (Vice Chair)	AR	<a href="mailto:michael.benson@arkansashighways.com">michael.benson@arkansashighways.com</a>	
Lauzon, Robert G.	CT	<a href="mailto:robert.lauzon@ct.gov">robert.lauzon@ct.gov</a>	
Douds, Richard	GA	<a href="mailto:rdouds@dot.ga.gov">rdouds@dot.ga.gov</a>	
Trepanier, Jim	IL	<a href="mailto:james.trepanier@illinois.gov">james.trepanier@illinois.gov</a>	
Davis, Jason	LA	<a href="mailto:Jason.davis@la.gov">Jason.davis@la.gov</a>	
Hood, Woodrow L.	MD	<a href="mailto:whood@sha.state.md.us">whood@sha.state.md.us</a>	
Williams, James A.	MS	<a href="mailto:jwilliams@mdot.state.ms.us">jwilliams@mdot.state.ms.us</a>	
Trautman, Brett	MO	<a href="mailto:brett.trautman@modot.mo.gov">brett.trautman@modot.mo.gov</a>	
Strizich, Matt	MT	<a href="mailto:mstrizich@mt.gov">mstrizich@mt.gov</a>	
Streeter, Donald	NY	<a href="mailto:donald.streeter@dot.ny.gov">donald.streeter@dot.ny.gov</a>	
Peoples, Christopher	NC	<a href="mailto:cpeoples@ncdot.gov">cpeoples@ncdot.gov</a>	
Seward, Kenny R.	OK	<a href="mailto:kseward@odot.org">kseward@odot.org</a>	
Lane, Becca	ON	<a href="mailto:Becca.Lane@ontario.ca">Becca.Lane@ontario.ca</a>	
Lane, Danny	TN	<a href="mailto:danny.lane@tn.gov">danny.lane@tn.gov</a>	
Williams, Kurt	WA	<a href="mailto:willikr@wsdot.wa.gov">willikr@wsdot.wa.gov</a>	

Non-Voting Members and Friends present:

Name/Friends/Guests	Affiliation		Present
Knake, Maria	AASHTO re:source	<a href="mailto:mknake@ashtoreource.org">mknake@ashtoreource.org</a>	
Voth, Michael D.	FHWA	<a href="mailto:michael.voth@dot.gov">michael.voth@dot.gov</a>	
Curry, Jonathan	Industrial Fabrics Assoc. International	<a href="mailto:jicurry@ifai.com">jicurry@ifai.com</a>	
Boardman, Jonathan T.	CT	<a href="mailto:jonathan.boardman@ct.gov">jonathan.boardman@ct.gov</a>	
Holt, Anne	ON	<a href="mailto:anne.holt@ontario.ca">anne.holt@ontario.ca</a>	
Schell, Hanna	ON	<a href="mailto:Hannah.Schell@ontario.ca">Hannah.Schell@ontario.ca</a>	
Watson, Ronald	RJ Watson, Inc.	<a href="mailto:rwatson@rjwatson.com">rwatson@rjwatson.com</a>	
Allen, Tony	WA	<a href="mailto:allent@wsdot.wa.gov">allent@wsdot.wa.gov</a>	
Rothblatt, Evan	AASHTO	<a href="mailto:erothblatt@ashto.org">erothblatt@ashto.org</a>	
Geary, Georgene	GGfGA Engineering,	<a href="mailto:ggeary@ggfga.com">ggeary@ggfga.com</a>	

	LLC		
Malusky, Kathryn	AASHTO	<a href="mailto:kmalusky@aaashto.org">kmalusky@aaashto.org</a>	
Lenker, Steven	AASHTO re:source	<a href="mailto:slenker@aaashtoresource.org">slenker@aaashtoresource.org</a>	
Lacinak, Henry	AASHTO	<a href="mailto:hlacinak@aaashto.org">hlacinak@aaashto.org</a>	

### III. Approval of Technical Section Minutes from Mid-Year Web Meeting

TS-4e Mid-Year Webinar Meeting Minutes from January 20, 2017 ([Attachment 1](#))

### IV. Old Business

#### A. Review of 2016 SOM Ballot Items (Rolling Ballot 2)

1. Item 4, M 288, Geotextile Specification for Highway Applications.
  - a. Adopted as M 288, Geosynthetic Specification for Highway Applications.
2. Item 5, MP 25 Performance-Graded Bituminous Sealants.
  - a. Adopted as MP 25, Performance-Graded Hot-Poured Asphalt Crack Sealant.
  - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution ([Attachment 2](#)).
  - c. TS Decision:
3. Item 6, PP xxx, Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant.
  - a. Adopted as PP 85-17.
  - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution ([Attachment 3](#)).
  - c. TS Decision:
4. Item 7, TP 85, Apparent Viscosity of Hot-Poured Bituminous Crack Sealant Using Brookfield Rotational Viscometer RV Series Instrument.
  - a. Adopted as T 366, Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer.
  - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution ([Attachment 4](#)).
  - c. TS Decision:
5. Item 8, TP 86, Accelerated Aging of Bituminous Sealants and Fillers Using a Vacuum Oven.
  - a. Adopted as T 367, Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven.
6. Item 9, TP 87, Measuring Low-Temperature Flexural Creep Stiffness of Bituminous Sealants and Fillers by Bending Beam Rheometer (BBR).
  - a. Adopted as T 368, Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR).
7. Item 10, TP 88, Evaluation of the Low-Temperature Tensile Property of Bituminous Sealants by Direct Tension Test.
  - a. Adopted as T 369, Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test.
8. Item 11, TP 89, Measuring Adhesion of Hot-Poured Crack Sealant Using Direct Adhesion Tester.
  - a. Adopted as T 370, Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester.
  - b. Additional technical revisions were received from the researcher during 2016 SOM ballot comment resolution ([Attachment 5a](#) and [Attachment 5b](#)).
  - c. TS Decision:
9. Item 12, TP 90, Measuring Interfacial Fracture Energy of Hot-Poured Crack Sealant Using a Blister Test.
  - a. Adopted as T 371, Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test.
  - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution. Chair proposes a stand-alone TS Ballot since T 371 is not a specific test method included in MP 25, Performance-Graded Hot-Poured Asphalt Crack Sealant.
10. Item 13, TP xxx, Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR).

- a. Adopted as TP 126-17.
  - b. Additional technical revisions were received from the researcher during 2016 SOM ballot comment resolution ([Attachment 6](#))
- B. TS Ballots – None.
- C. Task Force Reports
  - 1. Joint SOM TS-4e and SCOBS T-2 (Bearings and Expansion Devices) Task Force.
    - a. SOM TS-4e: Michael Benson, Chair (Arkansas), formerly Bob Burnett (New York), and Tim Ramirez (Pennsylvania).
    - b. SCOBS T-2: Carl Puzey, T-2 Vice-Chair (Illinois)
    - c. On-going TF to maintain the bridge bearing materials standards.
    - d. Replacement for Bob Burnett (New York)?
    - e. Continue Task Force?
  - 2. Task Force 2006-01 – M 251.
    - a. Michael Benson, Chair (Arkansas), James Williams (Mississippi), and Representative from Bridge Bearing Manufacturers Association.
    - b. Task Force is to address proper testing frequency and to address incorporating realistic English Units in the standard.
    - c. Additional members? Representative from Bridge Bearing Manufacturers Association? NTPEP Liaison?
    - d. Update on progress?
  - 3. Task Force 2006-03.
    - a. Tim Ramirez, Chair (Pennsylvania), Michael Benson (Arkansas), James Williams (Mississippi), Jonathan Curry (GMA).
    - b. Task Force is to potentially develop a standard for prefabricated geocomposite edge drains and wall drains.
    - c. Additional members?
    - d. Update on progress.
  - 4. Task Force 2015-01 – M 288.
    - a. Tim Ramirez, Chair (Pennsylvania), James Williams (Mississippi), Tom Burnett (New York), Chris Peoples and Scott Hidden (North Carolina), Tony Allen (Washington State), Jonathan Curry (GMA), Ken Bedenbaugh (Willacoochie Industrial Fabrics), Mike Clements (Huesker, Inc.), and Jim Goddard (Consultant).
    - b. Task Force is continuing work on M 288 to include geogrids for Base Reinforcement and to address comments from the ASTM D35 committee received from Jim Goddard.
    - c. Need to schedule a task force conference call/webex.

## V. New Business

- A. Research Proposals
  - 1. 20-7 RPS
  - 2. Full NCHRP RPS
- B. AASHTO Re:source/CCRL - Observations from Assessments?
- C. NCHRP Issues
- D. Correspondence, calls, meetings
  - 1. Call from John Shuler (Virginia), Chair NTPEP Geosynthetics Technical Committee- NTPEP Proposing guidelines for geogrid and high strength fabric for subgrade improvement. They would like to add something for subgrade improvement in M 288. Work on together as a joint Task Force. Draft NTPEP work plan for ballot in November 2017. Follow-up email from John Shuler dated August 3, 2017 ([Attachment 7](#)).
  - 2. Email from Jim Goddard (Consultant) dated August 2, 2017 with subject “AASHTO M288 Revisions” proposing revisions to include “circular knitted geotextile fabrics” being used as pipe envelopes ([Attachment 8](#)).
  - 3. Email Inquiry on M 230, Expanded and Extruded Foam Board (Polystyrene). Chair and Vice-Chair reviewed and responded to inquiry, but there may need to be revisions to M 230 ([Attachment 9](#)).
- E. Presentation by Industry/Academia
- F. Proposed New Standards
- G. Proposed New Task Forces

- H. Standards Requiring Reconfirmation (**Attachment 10** – Status of Standards)
  - 1. R 50, Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures.
  - 2. MP 26, Cotton Duck Fabric Bridge Bearings.
- I. SOM Ballot Items (including any ASTM changes/equivalencies)

**VI. Open Discussion**

**VII. Adjourn**