



COMMITTEE ON MATERIALS & PAVEMENTS

2018 Annual Meeting – Cincinnati, OH

Thursday, August 9, 2018

10:15 – 12:30 PM EST

TECHNICAL Subcommittee 3b

Fresh Concrete

I. Call to Order and Opening Remarks

II. Roll Call

Individual Name	Agency Name	Attendance
Syslo, Mick	Nebraska Department of Transportation	
Ingram, Steven	Alabama Department of Transportation	
Burch, Paul	Arizona Department of Transportation	
Lauzon, Robert G	Connecticut Department of Transportation	
Khan, Wasi U	District of Columbia Department of Transportation	
DeFord, Harvey Dale	Florida Department of Transportation	
Wu, Peter	Georgia Department of Transportation	
Ikehara, Brian	Hawaii Department of Transportation	
Santi, Mike J	Idaho Transportation Department	
Tobias, Daniel H	Illinois Department of Transportation	
Barezinsky, Richard A	Kansas Department of Transportation	
Myers, Allen H	Kentucky Transportation Cabinet	
Barot, Sejal	Maryland Department of Transportation	
Staton, John F.	Michigan Department of Transportation	
Turgeon, Curt	Minnesota Department of Transportation	
Trautman, Brett Steven	Missouri Department of Transportation	
Tedford, Darin P	Nevada Department of Transportation	
Boisvert, Denis M.	New Hampshire Department of Transportation	
Streeter, Donald	New York State Department of Transportation	
Miller, Daniel Ian	Ohio Department of Transportation	
Seward, Kenny R.	Oklahoma Department of Transportation	
Lane, Becca	Ontario Ministry Of Transportation	
Felag, Mark E	Rhode Island Department of Transportation	
Feller, Joe J.	South Dakota Department of Transportation	
Lane, Danny L.	Tennessee Department of Transportation	
Andrus, Scott S	Utah Department of Transportation	
Babish, Charles A.	Virginia Department of Transportation	
Williams, Kurt R	Washington State Department of Transportation	

III. Approval of Technical Subcommittee Minutes

IV. Old Business

A. Review of Ballots

- M 302 - Standard Specification for Slag Cement for Use in Concrete and Mortars – Passed with no negatives
- T 119 – Standard Method of Test for Slump of Hydraulic Cement Concrete – 1 Negative Addressed

V. New Business

- A. Task Force – Mick Syslo
 - 1. Harmonization Committee – Andy Naranjo (AASHTO)/Larry Sutter (ASTM)
 - 2. M 295 Andy/Larry
 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
- B. Discussion on M 302 – John Melander
 - Standard Specification for Slag Cement for Use in Concrete and Mortars
- C. New Standard Proposed Changes – Scott Andrus
 - 1. R 039 - Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory
 - 2. T 121 M/T 121 - Standard Method of Test for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete
 - 3. T 152 - Standard Method of Test for Air Content of Freshly Mixed Concrete by the Pressure Method
- D. AAASHTO Technical Service Program Items
- E. Standards Requiring Reconfirmation (AASHTO Resource)

Designation	Title	ASTM Equivalent
M 205M/M 205-11	Molds for Forming Concrete Test Cylinders Vertically	C470/C470M-09
M 295-11 (2015)	Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete	C618-12a
T 158-11 (2015)	Bleeding of Concrete	C232/C232M-09
T 196M/T 196-11 (2015)	Air Content of Freshly Mixed Concrete by the Volumetric Method	C173/C173M-10
T 197M/T 197-11 (2015)	Time of Setting of Concrete Mixtures by Penetration Resistance	C403/C403M-08
T 309-15	Temperature of Freshly Mixed Portland Cement Concrete	
T 318-15	Water Content of Freshly Mixed Concrete Using Microwave Oven Drying	

- F. Research Proposals
 - 20-7 RPS
 - Full NCHRP RPS
- G. NCHRP Topics

VI. Open Discussion

VII. Adjourn

SUBCOMMITTEE ON MATERIALS 2017 MINUTES

2017 Annual Meeting – Phoenix, AZ

Monday August 7, 2017

10:15 – 11:15 AM EST

TECHNICAL SECTION 3b

Fresh Concrete

Chair Mick Syslo (NE)

Vice Chair Wally Heyen (NE)

VIII. Call to Order and Opening Remarks

A. Brief summary of activities

IX. Roll Call

Mick	Syslo	Nebraska Department of Roads	NE	
Becca	Lane	Ontario Ministry Of Transportation	ON	
Brett	Trautman	Missouri Department of Transportation	MO	
Daniel	Tobias	Illinois Department of Transportation	IL	
Daniel	Miller	Ohio Department of Transportation	OH	
Denis	Boisvert	New Hampshire Department of Transportation	NH	
Kenny	Seward	Oklahoma Department of Transportation	OK	
Richard	Barezinsky	Kansas Department of Transportation	KS	
Robert	Lauzon	Connecticut Department of Transportation	CT	
Steven	Ingram	Alabama Department of Transportation	AL	
Sejal	Barot	Maryland Department of Transportation	MD	
Darin	Tedford	Nevada Department of Transportation	NV	
Charles	Babish	Virginia Department of Transportation	VA	
Danny	Lane	Tennessee Department of Transportation	TN	
Donald	Streeter	New York State Department of Transportation	NY	
Joe	Feller	South Dakota Department of Transportation	SD	
Mark	Felag	Rhode Island Department of Transportation	RI	
Michael	Santi	Idaho Transportation Department	ID	
Peter	Wu	Georgia Department of Transportation	GA	
Wasi	Khan	District of Columbia Department of Transportation	DC	
Kurt	Williams	Washington State Department of Transportation	WA	
Greg	Stellmach	Oregon Department of Transportation	OR	
Paul	Burch	Arizona Department of Transportation	AZ	
Brian	Ikehara	Hawaii Department of Transportation	HI	
Michael	Bergin	Florida Department of Transportation	FL	
Allen	Myers	Kentucky Transportation Cabinet	KY	
John	Staton	Michigan Department of Transportation	MI	
Curt	Turgeon	Minnesota Department of Transportation	MN	
Scott	Andrus	Utah Department of Transportation	UT	
Darren	Hazlett	Texas Department of Transportation	TX	

Members present:

SD, RI, GA, AZ, HI, KY, MI, UT, TX, IN, IL, OK, KS, AL, NV, VA, TN

X. Approval of Technical Section Minutes (Mid-year meeting minutes found below)

A. Motion to approve NY; Second, RI. Minutes pass

XI. Old Business

A. SOM Ballot Items

- M 302 : Standard Specification for Slag Cement for Use in Concrete and Mortars (see comments below)
 2. Affirmative – 24
 3. No Vote – 3
 4. Additional change to M 302 – John Melander.
 5. Editorial changes will be made moving forward on M 302.
 - Mr. Melander addressed suggested changes. A note will provide guidance consistent with T 153 and be consistent with industry practice. Motion to update M302 with Note 8.
 - Felag (RI) reminded the group that notes are non-mandatory. Suggested balloting now. RI made motion to ballot concurrently. NY seconds motion. Motion passes.
- B. Fly Ash Task Force – Mick Syslo
 1. Short Presentations given by Dr. Ley, Dr. Sutter & Dr. Juenger
 - Dr. Ley presented about fly ash quality and availability.
 - a. Used scanning electron microscope to measure size, chemistry, and shape of fly ash.
 - b. Found 9 fundamental particles common to the 35 different types tested. Introduced “particle model”.
 - c. Certain particles hurt your strength while others are great for strength.
 - d. Strength is great, but durability is even more important.
 - e. Measured compressive strength vs days of hydration. When using the particle model the variability in compressive strength reduced dramatically.
 - f. Particle model does a better job of predicting performance than Class C or F.
 - g. Can we take this information in modeling to make better test methods? Hopefully.
 - h. Steps going forward: address needs and get resources. Please contact Dr. Ley if you’re interested in the research or helping.
 - Dr. Sutter presented on C09.24 update
 - a. Dr. Sutter updated the group on ASTM standards and where they are going.
 - b. Trend in switching from CaO rather than sum of oxides
 - c. How to measure pozzolanic activity.
 - d. New standard for alternative supplementary cementitious materials.
 - e. What to do with natural pozzolans?
 - f. Concerns about harmonizing with AASHTO. We should move together in lock step to figure out what to do about pozzolans.
 - g. Dr. Sutter updated the committee on changes to the following ASTM Standards: C 618, 295, C 311 and C 1697.
 - h. Developing a Standard for Ground Glass Pozzolans and Colloidal Silica.
 - Dr. Juenger was not available, but TX covered the material.
 - a. Texas is looking at different alternatives for SCM’s. Flyash is dwindling.
 - b. Looking at the classification of fly ash. What should we be looking at?
- C. Mick (NE) asked that these topics be broken into 3 task forces to break apart the work and tackle these issues. 3 task forces including OK, MI, NE to be leading these TFs. States agreed to take the lead on the task forces with researchers.
 1. Dr. Sutter would like to see new Standards written. Felag (RI) suggests just one TF rather than 3 to help coordinate getting all the information needed to make a specification.
 2. Concluded that only one TF will be made with new members from OK & MI.

XII. New Business

- A. Moving T 23 from 3c to 3b
 - 1. T 23 – Making and Curing Concrete Test Specimens in the Field
 - Chairs agree that T 23 be moved to 3b. R 39 was mentioned too.
 - RI makes motion, OK seconds. Motion passes. T 23 and R 39 are moved to TS 3b.
- B. T 119 : Slump of Hydraulic Cement Concrete – Scott Andrus (UT)
 - 1. Clarity provided in this method with largely editorial changes. Motion to take to concurrent ballot Andrus (UT); second by Sandoval (AZ). Motion passes.
- C. AASHTO Re:source/CCRL - Observations from Assessments?
 - 1. None
- D. NCHRP Issues
 - 1. Fly ash proposal update (RI) – Task force is looking at this topic as well. Should this topic be put on hold for NCHRP? This problem statement will be put on hold for NCHRP.
 - 2. Resistivity problem statement update (Amir Hanna) – Motion to support this problem statement to TS 3c (RI); second by (OK). Motion passes.
- E. Research Proposals
 - 20-7 RPS
 - Full NCHRP RPS
 - October 16 is the deadline.
- F. Standards Requiring Reconfirmation
 - 1. AASHTO Re:source/CCRL will submit a Fall Ballot for Reconfirmation of required ballots.
- G. SOM Ballot Items (including any ASTM changes/equivalencies)

XIII. Open Discussion

XIV. Adjourn 11:27

Action Items

- M 302 will be balloted concurrently
- T 119 will be balloted concurrently