



SUBCOMMITTEE ON MATERIALS
100th Annual Meeting – Minneapolis, Minnesota
Monday, July 28, 2014
3:15 pm – 5:00 pm CST

TECHNICAL SECTION 3b
CONCRETE MATERIALS AND FRESH CONCRETE PROPERTIES

- I. **Call to Order and Opening Remarks**
- II. **Roll Call**
- III. **Approval of Technical Section Minutes**

Motion to approve the minutes: 1. VA, 2. GA, approved

IV. Old Business

- A. T 318 - Water Content of Freshly Mixed Concrete Using Microwave Oven Drying (Potential for Fall Ballot) The following have become Full Standard

Modified with the help of Dr. Sutter from Michigan Tech.

 - i. T 351 (TP-80) - Visual Stability Index (VSI) of Self-Consolidating Concrete (SCC) - *moved from provisional to full standard.*
 - ii. T 352 (TP-93) - Determining Formwork Pressure of Fresh Self-Consolidating Concrete (SCC) Using Pressure Transducers - *moved from provisional to full standard.*
 - iii. R 064 (TP-83) - Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout - *moved from provisional to full standard.*
- B. Removed as a Full Standard
 - i. T 26 – Quality of Water to Be Used in Concrete...
- C. R 064 Spring Ballot - Sampling and Fabrication of 50-mm (2-in.) Cube Specimens Using Grout (Non-Shrink) or Mortar - *Voted as a full standard. There were discussions on the curing of the cubes. There is a field method and a standard method of curing. The section balloted was on the standard curing. Both the field and standard curing are now addressed in this version of the standard, and the user can decide which one they want to use. Kentucky is willing to help rewrite the standard to allow for additional curing after the initial 24 hours. WAQTC wants it to be 24 ± 4 hr. It was noted that the method for making cubes in the field was taken from a WAQTC procedure and moved into AASHTO. Some states think that 3 x 6 cylinders are preferable. A 3 x 6 cylinder molding standard for grout may be needed in this case.*

Motion: 1. KY, 2. GA to put curing changes on the ballot.

Do we want to put a task force together to develop a 3 x 6 grout cylinder method? No.

Please review your state specifications to see what contributions can be made to aid in the development of these grout standards.

Action Item: Follow up with Mark (RI) to share their procedures and experiences with the group.
- D. Update of Dr. Ley's Research on Improving Specifications to Resist Frost Damage in Modern Concrete Mixtures (*the presentation will be made available for review*)

A new test method was presented to attempt to correlate air content in fresh concrete with resistance to freeze-thaw damage. Get more information on this device at www.superairmeter.com. There was a question about the time involved in running this test in the field. The answer is that the additional 3 minutes or so might be worthwhile for the extra information it provides.

Is there a research report available? It has not been published yet. The data generated is in the Annex of the draft provisional standard.

Motion to ballot this as a provisional standard: 1. RI, 2. MI, approved.

V. New Business

A. Research Proposals – Update from Texas

There was no update. Caroline Herrera was not at the meeting.

B. AMRL/CCRL Issues (nothing)

C. NCHRP Issues (be specific in your problem statements, follow the new guidelines, let Amir know if you have any questions)

D. Presentation

i. Microsphere-Based Admixture for Freeze/Thaw Resistant Concrete – Charles Mani, BASF (30 Minutes)

A test method was presented for the determination of the presence of microspheres in fresh concrete called the Recovery Test, which is a proposed ASTM method.

There is no draft standard in AASHTO format yet.

Action: Mick will talk to Greta about how to negotiate the balloting through AASHTO and ASTM. A joint standard might be a good idea.

E. Proposed Standards to be Modified

i. Mike Santi from Idaho will update us on T 121 – Compressive Strength of Cylindrical Concrete Specimens

Section 7.1 – T152 language was placed into this section.

Motion to put on the fall concurrent ballot: 1. UT, 2. DE, motion passed.

ii. Mike Santi from Idaho will update us on T 309 – Temperature of Freshly Mixed Hydraulic Cement Concrete

Based on a WAQTC method that replaces an old AASHTO C standard with an AASHTO A standard. **Motion to put on the fall concurrent ballot: 1. UT, 2. DE, motion passed.**

iii. John Melander will discuss changes to ASTM C 989 - Standard Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars (AASHTO M 302 - Standard Specification for Slag Cement for Use in Concrete and Mortars)

Changes made to C989 were considered for concurrent ballot through AASHTO.

Motion to ballot changes to M 302: 1. RI 2. DE, motion passed.

F. Proposed New Task Forces

G. Standards Requiring Reconfirmation

i. M 205M/M 205-11 - Molds for Forming Concrete Test Cylinders Vertically

ii. M 295-11 - Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

iii. T 158-11 – Bleeding of Concrete

iv. T 196M/T 196-11 - Air Content of Freshly Mixed Concrete by the Volumetric Method

v. T 197M/T 197-11 Time of Setting of Concrete Mixtures by Penetration Resistance

vi. T 318-02 (2011) Water Content of Freshly Mixed Concrete Using Microwave Oven Drying

VI. Open Discussion

February 18th mid-year web meeting is planned for 2015.

Tyler is looking for case studies (tyler.ley@okstate.edu).

VII. Adjourn

**2014 SOM ANNUAL MEETING
TS 3b
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Attendance Sheet

Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
Syslo, Mick	Nebraska Department of Roads	Mick.Syslo@nebraska.gov	402-479-4250	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heyen, Wally J	Nebraska Department of Roads	wally.heyen@nebraska.gov	402-479-4677	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rothblatt, Evan	American Association of State Highway and Transportation Officials	erothblatt@aaashto.org		<input type="checkbox"/>	<input type="checkbox"/>
Azari, Haleh	AASHTO Material Reference Laboratory	hazari@amrl.net	301-975-2112	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Johnson, Brian	AASHTO Material Reference Laboratory	bjohnson@amrl.net	240-436-4882	<input type="checkbox"/>	<input type="checkbox"/>
Lenker, Steven E.	AASHTO Material Reference Laboratory	slenker@amrl.net	240-436-4770	<input type="checkbox"/>	<input type="checkbox"/>
Khan, Maria P.	AASHTO Material Reference Laboratory	mknake@amrl.net	240-436-2408	<input type="checkbox"/>	<input type="checkbox"/>
Connery, James P.	Connecticut Department of Transportation	James.Connery@ct.gov		<input type="checkbox"/>	<input type="checkbox"/>
Khan, Wasi U.	District of Columbia Department of Transportation	wasi.khan@dc.gov	202-671-2366	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Arasteh, Michael	Federal Highway Administration	michael.arasteh@dot.gov		<input type="checkbox"/>	<input type="checkbox"/>
Smith, Michael	Federal Highway Administration	michael.smith@dot.gov		<input type="checkbox"/>	<input type="checkbox"/>
Bergin, Michael J	Florida Department of Transportation	michael.bergin@dot.state.fl.us		<input type="checkbox"/>	<input type="checkbox"/>

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Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
Wu, Peter	Georgia Department of Transportation	pwu@dot.ga.gov	404-608-4840	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carnate, Gerobin	Hawaii Department of Transportation	gerobin.carnate@hawaii.gov	808-832-3405 x131	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Santi, Mike	Idaho Transportation Department	mike.santi@itd.idaho.gov	(208) 334-8450	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walker, Ronald P.	Indiana Department of Transportation	rwalker@indot.in.gov		<input type="checkbox"/>	<input type="checkbox"/>
Myers, Allen	Kentucky Transportation Cabinet	allen.myers@ky.gov	502-564-3160	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hood, Woodrow L.	Maryland Department of Transportation	whoood@sha.state.md.us		<input type="checkbox"/>	<input type="checkbox"/>
Staton, John F.	Michigan Department of Transportation	statonj@michigan.gov	517-322-5701	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Turgeon, Curt	Minnesota Department of Transportation	curt.turgeon@state.mn.us		<input type="checkbox"/>	<input type="checkbox"/>
Kaiser, Reid	Nevada Department of Transportation	rkaiser@dot.state.nv.us	715-866-7520	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Simons, Bryce	New Mexico Department of Transportation	bryce.simons@state.nm.us	505/927-5191	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Streeter, Donald A.	New York State Department of Transportation	donald.streeter@dot.ny.gov		<input type="checkbox"/>	<input type="checkbox"/>
Felag, Mark E	Rhode Island Department of Transportation	mark.felag@dot.ri.gov		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Feller, Joe J.	South Dakota Department of Transportation	joe.feller@state.sd.us		<input type="checkbox"/>	<input type="checkbox"/>
Lane, Danny L.	Tennessee Department of Transportation	danny.lane@tn.gov		<input type="checkbox"/>	<input type="checkbox"/>
Hazlett, Darren	Texas Department of Transportation	darren.hazlett@txdot.gov		<input type="checkbox"/>	<input type="checkbox"/>

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Andrus, Scott	Utah Department of Transportation	scottandrus@utah.gov	801 965 4859	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Babish, Charles A. <i>CB</i>	Virginia Department of Transportation	andy.babish@vdot.virginia.gov	328-3102 Area Code 804	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Williams, Kurt	Washington State Department of Transportation	willikr@wsdot.wa.gov		<input type="checkbox"/>	<input type="checkbox"/>
Krebs, Steven W.	Wisconsin Department of Transportation	steven.krebs@dot.wi.gov		<input type="checkbox"/>	<input type="checkbox"/>
Prowell, Jan	Cement and Concrete Reference Laboratory	jprowell@astm.org		<input type="checkbox"/>	<input type="checkbox"/>
Sutter, Larry	Michigan Technological University	llsutter@mtu.edu		<input type="checkbox"/>	<input type="checkbox"/>
<i>Georgene Geary</i>	<i>Georgia DOT</i>	<i>ggeary@dot.ga.gov</i>	<i>404-608-4712</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Reynolds Toney</i>	<i>Oklahoma DOT</i>	<i>vtoney@odot.org</i>	<i>405 521 2677</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>SEJAL BAROT</i>	<i>Maryland DOT</i>	<i>Sbarot@sha.state.md.us</i>	<i>410-350-4101</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Brian Egan</i>	<i>Tennessee DOT</i>	<i>Brian.Egan@tn.gov</i>	<i>615-350-4101</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Hony Fekry</i>	<i>Del-DOT</i>	<i>hony.fekry@state.us-de</i>	<i>302-760-2551</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Mario Pareda</i>	<i>AASHTO/FDOT</i>	<i>STAT.F.FL.US</i> <i>MARIO.PAREDE@DOT.</i>	<i>352-231 0992</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Casey Sonera</i>	<i>AMRL</i>	<i>csoneira@amrl.net</i>	<i>240-436-4803</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Jan Proach</i>	<i>CCRL</i>	<i>jprowell@astm.org</i>	<i>410-436-4800</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Bob Hanrahan</i>	<i>PENNDOT</i>	<i>rho@whatppa.gov</i>	<i>717 705 3841</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>SUNEEL VANIKAR</i>	<i>FHWA</i>	<i>Suneel.Vanikar@dot.gov</i>	<i>202-366-0120</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>RICHIE CHAROENPAP</i>	<i>LA DOTD</i>	<i>richie.charoenpap@la.gov</i>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
Garth Newman	WARTC / Idaho Trans. Dept.	garth.newman@idtd.id.gov	208334 8039	<input type="checkbox"/>	<input checked="" type="checkbox"/> Friend?
Amir Hanna	TRB/UCRP	ahanna@nas.edu	202334 1432	<input type="checkbox"/>	<input type="checkbox"/> Liaison
Rezene Medhau	DC DOT	rezene.medhau@dc.gov	202-674-6030		
GREG STELLMACH	OREGON DOT	greg.f.stellmach@odot.state.or.us	503-986-3061	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PAUL TENNIS	Portland Cement Association	ptennis@ceemat.org	803 493 5441	<input type="checkbox"/>	<input type="checkbox"/>
John Melander	Consultant	jmelander@jma.com	847-942-2332	<input type="checkbox"/>	<input checked="" type="checkbox"/> Friend
DEWBSKERT	NH DOT	DWBSKERT@DOT.STATE.NH.US	603-271-1545	<input type="checkbox"/>	<input type="checkbox"/>
Colin Lorus	NRMA	clorus@nrma.org	240-485-1160	<input type="checkbox"/>	<input type="checkbox"/>
Ahmad Ardan	FHWA	ahmad.ardani@dot.gov		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Raid Castrodale	ES&S/Castrodale Engg Consultants	rcastrodale@escs.org	704-904-1999	<input type="checkbox"/>	<input type="checkbox"/>
TORE ARNESON	VECTOR CONSULTING	TORAE@VECTOR-CORPORATION.COM	303-465-3353	<input type="checkbox"/>	<input type="checkbox"/>
GARY CRAWFORD	FHWA	gary.crawford@dot.gov	202-366-1206	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Denick Castle	Kentucky Transportation Cabinet	Denick.Castle@ky.gov	502.564.3166	<input type="checkbox"/>	<input type="checkbox"/>
Desna Bergold	WAQTC/DB Consulting	dbconsulting@desna.com		<input type="checkbox"/>	<input type="checkbox"/>
Ron Holsinger	AASHTO	rholsinger@aashto.net	240-436-4830	<input type="checkbox"/>	<input type="checkbox"/>
William Ahearn	VT AOT	bill.ahearn@state.vt.us	802.828.3751	<input type="checkbox"/>	<input type="checkbox"/>
Eric Ferrebee	American Concrete Pavement Association	eferrebee@acpa.org	915-351-0082	<input type="checkbox"/>	<input type="checkbox"/>
John Ries	Expanded Shale Clay & Slate Inst	jrries@escsi.org	801-272-7070	<input type="checkbox"/>	<input type="checkbox"/>

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Thomas Adams	American Coal Ash Association	theadams@acaa-usa.org	(710) 870-7897	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ben Franklin	Headwaters Resources	bfranklin@headwaters.com	3149745095	<input type="checkbox"/>	<input checked="" type="checkbox"/> Friend
Maria Masten	Minnesota Dept. of Transportation	maria.masten@state.mn.us	6513665572	<input type="checkbox"/>	<input checked="" type="checkbox"/> Friend
AL Inwis	Hecim	a.l.inwis@hckm.com		<input type="checkbox"/>	<input type="checkbox"/>
Greg Mulder	Texas DOT	greg.mulder@dot.texas.gov	254 1843	<input type="checkbox"/>	<input type="checkbox"/>
RAFIC MINSHARA	HEADWATERS	RMINSHARA@Headwaters.com	770 3300689	<input type="checkbox"/>	<input type="checkbox"/>
Michael Black	KY Transportation Cabinet	michael.black@ky.gov	502-564-3160	<input type="checkbox"/>	<input type="checkbox"/>
Tracy Barnhart	AMRL	tbarnhart@amrl.net	240-436-4802	<input type="checkbox"/>	<input type="checkbox"/>
Brian Karschgen	AASHTO	bkarschgen@aashto.org		<input type="checkbox"/>	<input type="checkbox"/>
ROBIN GRAVES	VULCAN MATERIALS	gravesr@vmcma.com	205-298-3134	<input type="checkbox"/>	<input type="checkbox"/>
Barry Payne	Wisconsin DOT	barry.payne@dot.wi.gov	608-246-7945	<input type="checkbox"/>	<input type="checkbox"/>
TILBER LET	OKLAHOMA STATE UNIVERSITY	TILBER.LET@OKSTATE.EDU	405-744-5257	<input type="checkbox"/>	<input type="checkbox"/>
Jim Bibler	Gilson Company Inc	jbibler@gilsonco.com	770 548 7298	<input type="checkbox"/>	<input type="checkbox"/> FRIEND
Charles Nouri	BASF Corporation	charles.nouri@basf.com	216.559.7302	<input type="checkbox"/>	<input type="checkbox"/> FRIEND
Cecilia Jones	DES, Inc	cecil.jones@des.com	972-212-5733	<input type="checkbox"/>	<input type="checkbox"/> Friend
				<input type="checkbox"/>	<input type="checkbox"/>

