



SUBCOMMITTEE ON MATERIALS
100th Annual Meeting – Minneapolis, Minnesota
Thursday, July 31, 2014
8:00 am – 10:00 am CST

TECHNICAL SECTION 1c
Aggregate Materials - Meeting Minutes

I. Call to Order and Opening Remarks

II. Roll Call

A sign-in sheet was distributed to record attendance (appendix B).
 Self-introductions by all attendees.

III. Approval of Technical Section Minutes from midyear webinar

The midyear webinar meeting minutes were previously distributed by e-mail.
 Motion to approve the minutes– Nevada Second – Nebraska
 The motion was passed and the minutes were approved.

IV. Old Business

A. Previous Year SOM Ballot Items

Comments and negative votes were discussed and addressed during the midyear webinar meeting March 19, 2014.

B. Previous Year TS letter ballot TS1C-14-01 (6/13/14 – 7/4/14)

Item Number	1
Description	Revise M 45. This category B standard is due for reconfirmation. A review and comparison with the latest ASTM version of C 144 was conducted. Recommendation is to add a new note 1 to section 3.1 as included in the ASTM standard, and to reference the latest ASTM..
Decisions	Yes: 23, No: 1, No Vote: 5
Affirmative votes with comments	
Arizona (Bill Hurguy)	For clarity and readability, we recommend that Note 1 be revised to read, "Since excessive quantities of flat and elongated particles have historically caused problems with workability, care should be taken to ensure a suitable particle shape."
Florida (John Shoucair)	Agree that Note 1 is relevant, but suggest re-writing to Note 1—Excessive quantities of flat and elongated particles have historically caused problems with workability. I am not sure who would be responsible for ensuring a suitable particle shape - the aggregate producer or the accepting agency.
Negative vote comments	
Alabama (Buddy Cox)	What is the definition of "suitable particle size"? Flat and elongated is not checked on sand, whether it is natural or manufactured.
Discussion: There is currently no test method to check the shape characteristics or flat and elongated on fine aggregate sized materials. However that doesn't prevent looking at a sample under magnification to visually verify shape characteristics . Bryce (NM) feels the note belongs in the standard and find the negative non-	

<p>persuasive. Motion to make the negative non-persuasive. Motion – NM Second – NE - The motion was passed. Motion to send M45 to SOM ballot was passed as well.</p>	
Item Number	2
Description	Rewrite T 2 converting from a category C to a category A standard. This version is a rewrite effort from the WAQTC.
Decisions	Yes: 23, No: 1, No Vote: 5
Affirmative votes with comments	
Florida (John Shoucair)	Please consider adding instructions from attached document. I am unable to attach an Excel File but will send that separately. The sampling theory is based on discussions in Figure 8.1 (a), "The Aggregate Handbook", National Stone Association, 1993
<p>The documents Florida provided may be included in the appendix later on. Georgia noted that they also included some diagrams that could be used in the appendix.</p>	
Georgia (Peter Wu)	Thank you WAQTC!
New Jersey (Eileen Sheehy)	This test method should probably be a standard practice (an "R" standard) instead of a test method since no actual test results are generated as part of this method.
Oregon (Cole Mullis)	Looks like there is a typo in Table 1 for Test Sample mass for 2 in. nominal size. The lb in () should be (220) according to our WAQTC FOP.
Negative vote comments	
Oklahoma (Scott Seiter)	<p>While this is a good first draft to get the ball rolling on a T2 standard for AASHTO, there are some significant items that need to be addressed.</p> <p>section 2: The two defined terms regarding max size of aggregates are typically used by the superpave standards, and there are alternative definitions that are typically used by aggregate and/or concrete standards which have not been included.</p> <p>section 5: In Table 1, consider title change to something like, "Size of field samples". Consider change to title of second column to something like, "Minimum Mass of field sample".</p> <p>Suggest adding a subsection to add language providing some type of guidance that field sample sizes may need to be adjusted for number and types of tests anticipated.</p> <p>Note 1, may want to add reference to T 248.</p> <p>section 6.5: consider adding a subsection to add language that it is preferred to sample from a working face of the stockpile (where material is being loaded from for shipping or use)</p> <p>Consider adding a section on shipping of samples.</p> <p>section 7: add subsections to include; source of material and identity of sampler.</p> <p>Add appendices to provide detailed guidance/procedures on stockpiles, potential causes of segregation, powerpiles, etc.</p>
<p>OK is asking for technical help from the DAMS program (AASHTO) to supply back to the TS a new ballot. Action item is to submit T2 to AASTHO for technical assistance. This standard needs more review before it will be passed to SOM ballot.</p>	
Item Number	3
Description	Revise T 21. This is a category B standard that is due for reconfirmation. Last year a review and comparison with the latest ASTM version of C 40 resulted in a ballot with comments and negatives. This revision addresses the ballot comments and discussions from the TS meetings. A new section 1.2 was added. Revisions made to sections 4.2.1, 9, and 10.1.
Decisions	Yes: 24, No Vote: 5
No comments received	
<p>Motion NB Second ID to pass T21 to SOM ballot. The motion was passed.</p>	

Item Number	4
Description	Reconfirm T 96
Decisions	Yes: 24, No Vote: 5
Affirmative votes with comments	
Arizona (Bill Hurguy)	<p>1) The current ASTM designation for this test method is "C131-06". The current ASTM designation should replace the reference to "C131-01" in the title and all locations in AASHTO T96.</p> <p>2) In exception #3, the "eighth" sentence should be referenced rather than the "seventh" sentence.</p> <p>3) Also in exception #3, the reference to the "third from the last sentence" is confusing. To clearly define which sentence is being deleted, we recommend that the sentence number be given. If the sentence that is being deleted is the sentence which references "Note 3", an exception will also have to be added which deletes Note 3 itself. If Note 3 is deleted, additional exceptions should be made to address subsequent notes and references to those notes.</p> <p>4) In the second exception (b) in exception #4, ASTM C131-06 states "12.4 mm THICK" rather than "12.7 mm THICK". In conjunction with this exception, the second sentence of Section 6.1 of ASTM C131-06 states "not less than 12.4 mm". In Note 2 of ASTM C131-06, "12.7 mm (1/2 in.)" is stated. Additional exceptions should be made to address these references.</p> <p>5) In exception #5, it is confusing to add an unnumbered Note in a series of numbered Notes. Additional exceptions should be made to address this issue.</p> <p>6) Finally, we recommend that this procedure be modified to be a "stand-alone" AASHTO method rather than having a large number of exceptions when the procedure itself is relatively short.</p>
<p>T96 was discussed becoming a shared (category B) standard. There have always been a lot of exceptions in AASHTO to the ASTM version. AASTHO has been making adjustments that ASTM would typically adopt. Digest 389 determined precision estimates for T96. OK wished to issue a letter to AASHTO recommending that T96 be changed from a C standard to a B standard. Type B (shared) standards are shown in full in AASHTO books. In late 2013 PennDot issued a survey regarding aggregate durability. 26 of 27 states use LA Abrasion, it should be in the AASHTO books. Standards are now either jointly owned or ASTM / AASHTO owned. The A, B, and C nomenclature are being phased out.</p> <p>T96 was reconfirmed.</p>	
Item Number	5
Description	Revise T 113. This category B standard is due for reconfirmation. A review and comparison to the latest ASTM version of C 123 was conducted. To improve equivalency with the latest ASTM it is recommended to revise sections 4.6, 5.1, 9.1.1. Note: There will be some technical differences between AASHTO and ASTM in section 5 that will require some knowledge in chemistry of the referenced chemicals. AMRL will be contacted for possible assistance.
Decisions	Yes: 24, No Vote: 5
Affirmative votes with comments	
Arizona (Bill Hurguy)	<p>1) Section 4.6, as proposed, is poorly written. We recommend that this section be revised to read, "...the physical requirements for individual hydrometers given in ASTM E 100, or a suitable...".</p> <p>2) In footnote 1 at the end of this procedure, the reference to "Section 5" is confusing. Section 5 in AASHTO T113 addresses "Heavy Liquid", where "Section 5" in ASTM C123 addresses "Apparatus". "Heavy Liquid" is addressed in "Section 6" of ASTM C123. We recommend that this footnote state, "This method is technically equivalent with ASTM C 123/C 123M-12."</p>
<p>A motion to move the standard to SOM ballot – DC second – FL The motion was passed.</p>	
Item Number	6
Description	Revise T 210. This is a category B standard that is due for reconfirmation. A

	review and comparison to the latest ASTM version of D 3744 was conducted. Section 5.3 was revised to agree with ASTM D 3744. Specifically, the tolerance of the length of the stroke was changed from 0.6 to 6 mm. Checking the tolerance of this measurement to 0.6 mm appears to be unreasonable and unachievable. Section 11.4 was revised, changing the order of the two sentences. Editorial changes made to correct errors in Note 2 of Figure 1 and in section 12.6 - 12.7.
Decisions	Yes: 24, No Vote: 5
Affirmative votes with comments	
Arizona (Bill Hurguy)	1) The revision at the bottom of each page, which shows “211” being deleted and “210” being added, is confusing and unnecessary. The designation of “T210” was already correctly shown in the 2013 AASHTO Materials Book.
Georgia (Peter Wu)	The tolerance of the length of stroke is now set at 6mm, which is 13.3% of the 45 mm. Are we sure this is the best the stoke length can be done?
<p>Georgia feels this tolerance is a bit loose. AMRL does not check the stroke length as it is difficult to measure. OK would like to potentially become the steward of this test as they perform it regularly. It is possible that ASTM made a typo in their change (0.6 to 6). It has been 0.6 for a long time.</p> <p>OK (chair) views this as a possible mistake and wants to move it forward without the change until we can contact ASTM about the change.</p> <p>Motion to move T210 to SOM ballot without the length of stroke change. The motion can be amended if we do find out that ASTM did purposefully make the change to 6 mm (this change would be concurrent ballot). The motion was passed.</p>	
Item Number	7
Description	Reconfirm TP 81
Decisions	Yes: 24, No Vote: 5
Affirmative votes with comments	
Arizona (Bill Hurguy)	<p>1) In Note 2, “2” is being deleted, but at the same time it is being replaced by “2”. Why?</p> <p>2) In Note 3, “3” is being deleted, but at the same time it is being replaced by “3”. Why?</p> <p>3) In Note 4, “4” is being deleted, but at the same time it is being replaced by “4”. Why?</p> <p>4) In Note 5, “5” is being deleted, but at the same time it is being replaced by “5”. Why?</p>
TP 81 was reconfirmed.	

C. Task Force Reports

- i. TF 08-01; Rewrite T 2 as an ‘A’ Standard (FL, AL, ND): TS ballot has been conducted. **Task force performed their duty. This standard is now in the hands of AASHTO. The task force was dissolved.**
- ii. TF 11-01; Review/revise test procedure (KS, NE, AK, AMRL) **The lead of this task force, Josh Welge, has changed positions and is not involved in SOM. Nebraska is willing to lead the task force if states are interested. Kansas is willing to provide support for this task force with new personnel. There may be a TS ballot on T 112 in the future to look out for.**
- iii. TF 13-01; AIMS standards, TP 81 and PP 64 – review research and recommend changes to standards (FL,) **Research is looking at particle shape parameters. Some papers are recommending changes to procedures. TF 13-01 is looking at making potential changes based on research. FL is looking to add some interested states to the task force. If states have imaging systems, they may be volunteered for the task force as no states volunteered. There are other imaging devices that may need to be incorporated into TP81 but it**

would require big changes to the standard. Another potential change is only allowing virgin aggregate (not recycled) in TP 81. ASTM is also looking at changes and has created a work item on the AIMS standards.

V. New Business

A. Research Proposals

The Chair received a Research Need Statement from the TRB Mineral Aggregates Committee AFP70 for consideration by the Technical Section. This RNS was also discussed in Technical Sections 1a and 1b. Based on discussions in the other technical sections and with input from Amir, it was concluded that the proposed RNS is similar to another project about to begin (project 1-53). Consensus of the technical section not to endorse this RNS.

B. AMRL/CCRL Issues

AMRL is planning on changing the time when they submit comments. They will now submit them in the fall to be discussed at the mid-year meetings.

C. NCHRP Issues

Amir passed out a list of current and recently completed aggregate and soil related projects. NCHRP is not receiving many problem statements regarding materials.

Project 4-35, "Improved Test Methods for Specific Gravity and Absorption of Coarse and Fine Aggregate"; The Draft Final Report dated 6/30/14 has been presented to the panel for review. There may be some changes to standards based on the research findings from this project.

Research Results Digest 389, "Precision Estimates of AASHTO T 304, T 96, and T 11, and investigation of the Effect of Manual and Mechanical Methods of Washing on Sieve Analysis of Aggregates": Report dated May 2014 has been received.

There are some recommendations to make some changes to T11 and T304.

New pooled fund aggregate project- It is a laboratory procedure using lasers to blast the aggregate and measure the plasma signature profile. It is looking at new technologies to characterize aggregate properties looking at correlations with existing test methods. Kansas and several other states have been involved in this project.

D. Correspondence, calls, meetings/ Presentation by Industry

E-mail (7/10/14) from Rick Meininger on Iowa Pore Index Aggregate test.

This test is used as screening for de-cracking aggregate (Michigan). Iowa is asking how many states use the tests to collaborate results. We could move to make this an AASHTO standard if states are interested. This test has been included on a recent survey involving NC squared states.

High Friction Surface Treatments - Danny Lane (TN) gave a brief talk about calcined bauxite for use as high friction surface treatment (HFST) as well as the polymer concrete overlays NTPEP program. Polymer concrete overlays are part of the NTPEP program with Kentucky as the lead state. The manufacturer gets to choose the type of material used, and ALL manufacturers have chosen calcined bauxite so far. This shows the manufacturer's confidence in the aggregate.

E. Proposed New Standards

New Mexico is proposing to make AASHTO TP77 a full test procedure. They use the standard regularly and find the results very repeatable.

The motion is to have a concurrent ballot to advance TP77 as a full standard – NM Second – RI
The motion was passed.

As a follow-up to the Plenary Session presentation earlier in the week on internal curing of concrete; The Indiana DOT has a state test method that reportedly provides a quicker and more accurate way to measure the absorption and desorption of lightweight aggregate using a centrifuge. The Chair will contact Indiana for more information.

F. Proposed New Task Forces

TF 14-01

A new task force is proposed to look into the idea of creating an AASHTO standard for Iowa Pore Index Aggregate Test.

Task force members - John Staton (Michigan), Troy Poole (CTL), Iowa

G. Standards Requiring Reconfirmation

- i. M 195-11
- ii. T 104-99(2011)
- iii. T 304-11
- iv. T 330-07(2011)

Ballots for these standards will be sent out by AASHTO in early 2015.

H. SOM Ballot Items (including any ASTM changes)

VI. Open Discussion

During the midyear webinar there was a good discussion about inverted pavements. As a follow-up to that discussion, we are awaiting a report on inverted pavements research from Georgine Geary (GA). Georgine mentioned that the report is not finished.

VII. Adjourn

The Chair reminded everyone to sign-in on the attendance sheet.

Motion to adjourn NV – Second ID – The motion was passed.

Meeting adjourned at 9:55 AM.

List of Attachments:

Appendix A: Meeting summary worksheet

Appendix B: Sign-in (Attendance) sheet distributed at meeting.

**2014 SOM ANNUAL MEETING
TS 1c
Aggregate Materials
Thursday, July 31, 2014 (8:00am-10:00am)**

Attendance Sheet

Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
Seiter, Scott	Oklahoma Department of Transportation	sseiter@odot.org		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Simons, Bryce	New Mexico Department of Transportation	bryce.simons@state.nm.us		<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓ Rothblatt, Evan	American Association of State Highway and Transportation Officials	erothblatt@aaashto.org	202-624-3648	<input type="checkbox"/>	<input type="checkbox"/>
Azari, Haleh	AASHTO Material Reference Laboratory	hazari@amrl.net		<input type="checkbox"/>	<input type="checkbox"/>
Knake, Maria	AASHTO Material Reference Laboratory	mknake@amrl.net		<input type="checkbox"/>	<input type="checkbox"/>
Breth, Christopher	AASHTO Material Reference Laboratory	cbreth@amrl.net		<input type="checkbox"/>	<input type="checkbox"/>
Holsinger, Ronald Edward	AASHTO Material Reference Laboratory	rholsinger@amrl.net		<input type="checkbox"/>	<input type="checkbox"/>
Slenker, Steven E.	AASHTO Material Reference Laboratory	slenker@amrl.net		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Moser, Amanda	AASHTO Material Reference Laboratory	amoser@amrl.net		<input type="checkbox"/>	<input type="checkbox"/>
Uherek, Greg	AASHTO Material Reference Laboratory	guherek@amrl.net	240-436-4840	<input type="checkbox"/>	<input type="checkbox"/>
Johnson, Brian	AASHTO Material Reference Laboratory	bjohnson@amrl.net	240-436-4820	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ingram, Steven	Alabama Department of Transportation	ingrams@dot.state.al.us		<input type="checkbox"/>	<input type="checkbox"/>
Cox, Bernard	Alabama Department of Transportation	coxb@dot.state.al.us		<input type="checkbox"/>	<input type="checkbox"/>

**Subcommittee on Materials 2014
Renaissance Depot Hotel
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Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
San Angelo, Michael	Alaska Department of Transportation and Public Facilities	michael.sanangelo@alaska.gov		<input type="checkbox"/>	<input type="checkbox"/>
Hurguy, Bill	Arizona Department of Transportation	bhurguy@azdot.gov		<input type="checkbox"/>	<input type="checkbox"/>
Benson, Michael <i>MSB</i>	Arkansas State Highway and Transportation Department	michael.benson@arkansashighways.com	501-569-2185	<input checked="" 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. <i>W. Khan</i>	District of Columbia Department of Transportation	wasi.khan@dc.gov	202-677-2316	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gallivan, Victor (Lee)	Federal Highway Administration	victor.gallivan@dot.gov		<input type="checkbox"/>	<input type="checkbox"/>
Shoucair, John P	Florida Department of Transportation	john.shoucair@dot.state.fl.us		<input type="checkbox"/>	<input type="checkbox"/>
Wu, Peter	Georgia Department of Transportation	pwu@dot.ga.gov		<input type="checkbox"/>	<input type="checkbox"/>
Santi, Mike <i>MS</i>	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"/>
Bradbury, Richard L	Maine Department of Transportation	Richard.Bradbury@maine.gov		<input 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. <i>JS</i>	Michigan Department of Transportation	statonj@michigan.gov	322-5701 517-611	<input type="checkbox"/>	<input type="checkbox"/>
Turgeon, Curt	Minnesota Department of Transportation	curt.turgeon@state.mn.us		<input type="checkbox"/>	<input type="checkbox"/>
Syslo, Mick	Nebraska Department of Roads	Mick.Syslo@nebraska.gov	402-474-4750	<input checked="" 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?
Kaiser, Reid	Nevada Department of Transportation	rkaiser@dot.state.nv.us	775 866-7520	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Burnett, Robert A.	New York State Department of Transportation	bburnett@dot.state.ny.us		<input type="checkbox"/>	<input type="checkbox"/>
Cowsert, Jack E.	North Carolina Department of Transportation	jcowsert@ncdot.gov		<input type="checkbox"/>	<input type="checkbox"/>
Horner, Ron	North Dakota Department of Transportation	rhorner@nd.gov		<input type="checkbox"/>	<input type="checkbox"/>
Mullis, Cole F.	Oregon Department of Transportation	cole.f.mullis@odot.state.or.us		<input type="checkbox"/>	<input type="checkbox"/>
Felag, Mark E	Rhode Island Department of Transportation	mark.felag@dot.ri.gov	401-222-2524 x4130	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trellinger, Bill DANNY LANE Heinert, Caroline	Tennessee Department of Transportation Texas Department of Transportation	bill.trellinger@trngov DANNY.LANE@TN.GOV caroline.heinen@txdot.gov	615-350-4175	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Babish, Charles A CABE	Virginia Department of Transportation	andy.babish@vdot.virginia.gov	804-328-3102	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Farley, Paul M	West Virginia Department of Transportation	paul.m.farley@wv.gov		<input type="checkbox"/>	<input type="checkbox"/>
Lane, Becca	Ontario Ministry Of Transportation	Becca.Lane@ontario.ca	416-235-3512	<input type="checkbox"/>	<input type="checkbox"/>
Beshara, Magdy L	Saskatchewan Ministry of Highways and Infrastructure	magdy.beshara@gov.sk.ca		<input type="checkbox"/>	<input type="checkbox"/>
MARIO PAREDES	FDOT / AASHTO	M.PAREDES@AASHTO.COM		<input type="checkbox"/>	<input type="checkbox"/>

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GREG STELLMACH	OREGON DOT	greg.stellmach@odot.state.or.us	503-986-3061	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Geetha Neesman	WAITE / Idaho Trans Dept	geetha.neesman@ididaho.gov	208 334-8039	<input type="checkbox"/>	<input checked="" type="checkbox"/> friend
Brian Korschgen	AASHTO	bkorschgen@aasht.org	202-624-8866	<input type="checkbox"/>	<input type="checkbox"/>
BOB HARWITAT	PENNDOT	rharwitat@pa.gov	717 705 3841	<input type="checkbox"/>	<input type="checkbox"/>
Amir Hanna	TRB/NCHRP	ahanna@nas.edu	202 354 1432	<input type="checkbox"/>	<input type="checkbox"/>
Steven Krebs	Wisconsin DOT	Steven.Krebs@dot.wi.gov	608 246-1930	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PAUL FARLEY	WEST VIRGINIA DOT	Paul.M.Farley@wv.gov	304 558-7491	<input type="checkbox"/>	<input type="checkbox"/>
DENIS BOISVERT	NH DOT	D.Boisvert@dot.state.nh.us	603-271-1595	<input type="checkbox"/>	<input type="checkbox"/>
Toy Peele	CTL Group	TPOOLE@CTLGroup.com	512-219-4075	<input type="checkbox"/>	<input type="checkbox"/>
Tim Martin	CTL Group	TMARTIN@CTLGroup.com	512-695-2878	<input type="checkbox"/>	<input type="checkbox"/>
Gerry Carnate	HDOT	gerobin.carnate@hawaii.gov	808 832 3405	<input type="checkbox"/>	<input type="checkbox"/>
William Ahearn	VT AOT	bill.ahearn@state.vt.us	802 828 5751	<input type="checkbox"/>	<input type="checkbox"/>
RICHIE CHAROENPAP	LOUISIANA DOTD	richie.charoenpap@la.gov	225 248 4217	<input type="checkbox"/>	<input type="checkbox"/>
Randy West	National Center for Asphalt Technology	westran@auburn.edu	334 844 6244	<input type="checkbox"/>	<input type="checkbox"/>
Scott Andrus	UDOT	scottandrus@utah.gov	801-965-4859	<input type="checkbox"/>	<input type="checkbox"/>
Greg Schieber	Kansas DOT	gregs@ksdot.org	785-291-3856	<input type="checkbox"/>	<input type="checkbox"/>
ROBIN GRAVES	VULCAN MATERIALS	gravesr@vcm.com	205-298-3134	<input type="checkbox"/>	<input checked="" type="checkbox"/> FRIEND
SARA ROSE	NREI-UMD	srose@umd.edu	(618) 720-4278	<input type="checkbox"/>	<input type="checkbox"/>

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Tara Springer - Contact

202-493-3144



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Name	Employer	Email Address	Phone Number	Member of TS?	Would you like to join this TS?
Michael Black	KY Transportation Cabinet	michael.black@ky.gov	502-564-3160	<input type="checkbox"/>	<input type="checkbox"/>
KENN KETTER-MED	FHWA	KENN.KETTER-MED@DOT.GOV	057 291-6123	<input type="checkbox"/>	<input type="checkbox"/>
Tim Aschenbrenner	FHWA	tim.aschenbrenner@dot.gov	730 763-3247	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rezene Medhani	D.C. DOT	rezene.medhani@dc.gov	202 654-6030	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ahmad Ardani	FHWA	ahmad.ardani@dot.gov	202 493-3422	<input type="checkbox"/>	<input type="checkbox"/>
Moe Jamshidi	Nebraska DOR	moe.jamshidi@nebraska.gov	402 430-4241	<input type="checkbox"/>	<input type="checkbox"/>
SUNEEL VANIKAR	FHWA	suneel.vanikar@dot.gov	202-366-0120	<input type="checkbox"/>	<input type="checkbox"/>
Derrick Castle	Kentucky Transportation Cabinet	Derrick.Castle@ky.gov	502-564-3160	<input type="checkbox"/>	<input type="checkbox"/>
Craig Wallace	Headwaters Resources	cwallace@headwaters.com	259 565-2558	<input type="checkbox"/>	<input type="checkbox"/>
DICK REAVES	TROXLER	dreaves@troxlerlabs.com	919-819-4557	<input type="checkbox"/>	<input type="checkbox"/>
Tracy Barnhart	AMRL	tbarnhart@amrl.net	240-436-4802	<input type="checkbox"/>	<input type="checkbox"/>
Jan Powell	CCRL	jpowell@astm.org	210-436-4800	<input type="checkbox"/>	<input type="checkbox"/>
Rid Castrodale	ES&S/Castrodale Engg Consultants	rcastrodale@escsl.org	704-904-7199	<input type="checkbox"/>	<input type="checkbox"/>
Jim Bibler	GILSON COMPANY	jbibler@gilsonco.com	770-548-7298	<input type="checkbox"/>	<input type="checkbox"/>
Cecilia Jones	DES, Inc.	cecilia.jones@des.com	917-416-8187	<input type="checkbox"/>	<input type="checkbox"/>
LISA Zigmund	OHIO DOT	lizigmund@dot.state.oh.us	614-275-1351	<input type="checkbox"/>	<input type="checkbox"/>
DAVE SAVAGE	C.M.E.C.	dave.savage@cmec.org	407 756-8105	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Todd Arnold
Pine Test Equip

torold@pinedot.com
774-458

Please make Roger Tylea friend. Tylea@pinedot.com
6393



Gene Crawford
FHWA

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