



## COMMITTEE ON MATERIALS AND PAVEMENTS

Meeting ( <i>Annual or Mid-Year</i> )	Annual
Date	Tuesday, August 6, 2019
Scheduled Time	3:15-5:00 pm
Technical Subcommittee & Name	TS 1b – Geotechnical Exploration, Instrumentation, Stabilization and Field Testing
Chair Name and (State)	Neoma Cole (GA)
Vice Chair Name and (State)	Matt Linneman (ND)
Research Liaison Name and (State)	Darin Tedford (NV)

### I. Introduction and Housekeeping

### II. Call to Order and Opening Remarks

#### A. Brief Summary of Activities

### III. Roll Call of Voting Members

Present	Member Name	State	Present	Member Name	State
<input type="checkbox"/>	Kaye Davis	AL	<input type="checkbox"/>	Matt Romero	OK
<input type="checkbox"/>	Leo Louis Fontaine	CT	<input type="checkbox"/>	Scott Seiter	OK
<input type="checkbox"/>	David Horhota	FL	<input type="checkbox"/>	Sean Parker	OR
<input type="checkbox"/>	Garth Newman	ID	<input type="checkbox"/>	Merrill Zwanka	SC
<input type="checkbox"/>	Daniel Tobias	IL	<input type="checkbox"/>	Travis Smith	TN
<input type="checkbox"/>	Sejal Barot	MD	<input type="checkbox"/>	Charles A. Babish	VA
<input type="checkbox"/>	James Williams	MS	<input type="checkbox"/>	Ron Stanevich	WV
<input type="checkbox"/>	Darin Tedford	NV	<input type="checkbox"/>	Becca Lane	Ontario
<input type="checkbox"/>	Chuck Dusseault	NH	<input type="checkbox"/>		
<input type="checkbox"/>	Steven Heiser	NY	<input type="checkbox"/>		

*Quorum Rules Met?*

Annual Meeting: Simple majority of voting members (☐y/ ☐n) | Mid-Year Meeting: Voting members present (☐y/ ☐n)

#### A. Review of Membership (*New members, exiting members, etc.*)

### IV. Approval of Technical Subcommittee Minutes – Attachment A

### V. Old Business

#### A. Technical Subcommittee Ballots

TS Ballot #	Standard	Results (neg/affirm)	Comments/Negatives	Action
COMP_TS1B 19-01	PP XX – DIGGS Data	0/15	No negative votes. No comments (Attachment B)	Since it passed the TS ballot, the proposed Provisional Practice will be submitted to COMP ballot.

## B. Reconfirmation Ballots

**Reconfirmation ballot in October reconfirmed M231, T298 and T306.**

**Full Standards due for reconfirmation this year are: R13, R75, T207 and T225**

## C. Task Force Reports

Task Force #	Title	Members	Status/Update
10-04	Support for the Provisional Standard TP 112	Cecil Jones, Dennis Anderson, Darin Tedford, Delaware, Mississippi	Need update -
16-01	T 310 – Write Procedure for the Calibration Blocks	PA, Alaska, Montana	Need to appoint a new lead for task force.
17-01	Proposed New Provisional Standard for DIGGS data	Ben Rivers and others	Proposed standard was balloted to the TS and passed with no comments. Standard should move forward to COMP ballot.

## VI. New Business

### A. AASHTO re:source/CCRL/NTPEP (*Observations from assessments, as applicable.*)

#### 1. T 99 and T 180

##### a. This is what the methods say:

3.1. Mold Assembly (Mold, Collar, and Base Plate)—Molds shall be solid-wall, metal cylinders manufactured with dimensions and capacities shown in Sections 3.1.1, 3.1.2, and Figures 1 and 2. They shall have a detachable collar approximately 60 mm (2.375 in.) in height, to permit preparation of compacted specimens of soil-water mixtures of the desired height and volume. The mold and collar shall be so constructed that it can be fastened firmly to a detachable base plate made of the same material (Note 2). The base plate shall be plane to 0.005 in. as shown in Figures 1 and 2.

Note 2—Alternate types of mold assemblies with capacities as stipulated herein may be used, provided the test results are correlated with those of the solid-wall mold on several soil types and the same moisture-density results are obtained. Records of such correlation shall be maintained and readily available for inspection, when alternate types of molds are used.

##### b. The question came up regarding split-wall molds. The language requiring comparison between a solid-wall mold and a split-wall mold is in a note, which is non-mandatory information. This makes it difficult for our staff to enforce requiring the comparison when split-wall molds are used. I recommend moving the language in Note 2 to the body of the standard. I would be happy to prepare a ballot with this change redlined if you would like me to.

### B. Presentation by Industry/Academia

#### 1. Ben Rivers:

- a. FHWA workshop to help states with DIGGS implementation.
- b. New NHI course for Geotechnical Site Characterization

### C. Revisions/Work on Standards for Coming Year

#### 1. Precision Statement for T180 – see data from AASHTO re:source in **Attachment C**

- a. Propose to use wording from T99 (but with new values) as a potential voice vote to add to COMP ballot to change the standard.

2. WAQTC Request – standardize the symbol for density – **Attachment D**

- a. Proposed changes seem to be editorial, so if the Subcommittee is in agreement with the proposed changes, Publications can make the changes. T99 and T310

D. Review of Stewardship List - TS 1b Standards are listed at the end of the agenda.

*(List of subcommittee's standards flagging those requiring action; include as separate attachment.)*

E. Proposed New Standards

F. NCHRP Issues

- 1. Update on 21-10 – Ben Rivers or James Williams

G. Correspondence, Calls, Meetings – none

H. Proposed New Task Forces *(Include list of volunteers to lead and/or join TF.)*

I. New TS Ballots

**VII. Open Discussion**

- A. ASTM equivalency/harmonization

**VIII. Adjourn**

## TS 1b Standards

<i><b>AASHTO Designation No.</b></i>	<i><b>Title</b></i>
M 57-80 (2017)	Materials for Embankments and Subgrades
M 145-91 (2017)	Classification of Soils and Soil–Aggregate Mixtures for Highway Construction Purposes
M 146-91 (2017)	Terms Relating to Subgrade, Soil–Aggregate, and Fill Materials
M 147-17	Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses
M 231-95 (2018)	Weighing Devices Used in the Testing of Materials
R 13-12 (2016)	Conducting Geotechnical Subsurface Investigations
R 45-13 (2017)	Installing, Monitoring, and Processing Data of the Traveling Type Slope Inclinator
R 75-16	Developing a Family of Curves
T 99-18	Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop
T 134-05 (2018)	Moisture–Density Relations of Soil–Cement Mixtures
T 135-13 (2017)	Wetting-and-Drying Test of Compacted Soil–Cement Mixtures
T 136-13 (2017)	Freezing-and-Thawing Tests of Compacted Soil–Cement Mixtures
T 180-18	Moisture–Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18-in.) Drop
T 191-14 (2018)	Density of Soil In-Place by the Sand-Cone Method
T 206-09 (2018)	Penetration Test and Split-Barrel Sampling of Soils
T 207-12 (2016)	Thin-Walled Tube Sampling of Soils
T 221-90 (2017)	Repetitive Static Plate Load Tests of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements
T 222-81 (2017)	Nonrepetitive Static Plate Load Test of Soils and Flexible Pavement Components for Use in Evaluation and Design of Airport and Highway Pavements

T 223-96 (2017)	Field Vane Shear Test in Cohesive Soil
T 225-16	Diamond Core Drilling for Site Investigation
T 252-09 (2018)	Measurements of Pore Pressures in Soils
T 272-18	One-Point Method for Determining Maximum Dry Density and Optimum Moisture
T 298-15(2018)	High-Strain Dynamic Testing of Piles
T 306-11 (2018)	Progressing Auger Borings for Geotechnical Explorations
T 310-13 (2017)	In-Place Density and Moisture Content of Soil and Soil–Aggregate by Nuclear Methods (Shallow Depth)
T 385-19	Deep Foundation Elements under Bidirectional Static Axial Compressive Load
T 386-19	Rapid Axial Compressive Load Testing of Deep Foundation Units
PP 92-18	Preparation of Test Specimens Using the Plastic Mold Compaction Device
TP 112-14 (2018)	Determining In-Place Density and Moisture Content of Soil and Soil–Aggregate Using Complex Impedance Methodology