

TPF-5(299) Technical Advisory Committee (TAC) and Friends Meeting Minutes

Raleigh, North Carolina

Thursday, November 5, 2015; 8 am – 3 pm EST

44 attendees

**8 - 8:10 am Opening – Andrews, MDSHA, Chairman;** Study purpose/objectives and self-introductions, agenda developed by team including representatives from AR, ND, FHWA and MD.

**8:10 – 8:20 am Pooled Fund Study (PF) web presence – Mergenmeier, FHWA;** One of the tasks from the September 2014 was to explore developing a public and private web presence. A publicly accessible Sharepoint site was developed with input from representatives from MT, PA, NC, and FHWA. A brief web site demonstration was given. The following is process to access the site:

Navigate here <https://collaboration.fhwa.dot.gov/default.aspx>

- Click on Register, then select Potential Non DOT Users (i.e. if not a FHWA and/or USDOT employee).
- Fill out form, and click to “Request an Account”
- This request will be approved in most cases in less than 1 day and you will be notified that you have been approved.

Please provide comments to improve/modify site to Andy Mergenmeier, FHWA.

**8:20 – 8:30 am AASHTO PP 67 – Quantifying Cracks in Asphalt Pavement Surfaces from Collected Images Utilizing Automated Methods – Mergenmeier, FHWA;** One of the tasks from the September 2014 meeting was to review/recommend modifications to PP’s 67-70. A subgroup of PF TAC/Friends met remotely numerous times to review the standards and recommended major revisions to PP 67. The recommended revisions were submitted to AASHTO Materials for balloting. Ballot results were all affirmative with one negative vote that was resolved with minor editorial changes. The AASHTO Materials standards to be published in 2016 will reflect these changes. The subgroup had many items that were not resolved, but were considered of interest in further refining/developing PP 67. These items were compiled in a document that will be provided to the contractor for NCHRP project, Defining Comparable Cracking Data. This contract is expected to be executed in January 2016 with a 20 month contract duration. The following web link provides status of the NCHRP project: <http://apps.trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=3855>.

**8:30 - 9:50 am Project Update: Development of Standard Data Format for 2-Dimensional and 3-Dimensional (2D/3D) Pavement Image Data that is used to determine Pavement Surface Condition and Profiles, Wang, Oklahoma State University;** The contract is a PF study funded contract administered by FHWA. Presentation (available in Sharepoint folder) lasted 40 minutes and Q&A proceeded for 40 minutes. Contract awarded August 2015 – 12 month contract length. Written responses to interview questions will be followed up to resolve inconsistencies in information provided. Group suggested ROW images probably not be included at this time to reduce complexity. Many items such as compression, resolution, impacts on data transmission . . . were discussed at length and alternatives are currently being assessed.

**9:50 - 10:05 am break**

**10:05 – 10:10 am New project approved by TAC to undertake. Developing RFP for, Calibration and Verification of Transverse Pavement Profile Measurements, Mergenmeier, FHWA;** Task group developing RFP includes representatives from KS, CA, OR, FHWA, MD, ND, and WA. The study objective is to develop calibration/verification methods and procedures to evaluate the precision and accuracy of transverse pavement profile measurements that are collected at the prevailing speed limit. It is expected to be advertised in summer 2016.

**10:10 -10:20 am LTPP Activities Related to Automated Transverse Profiling and Faulting, Wisner, FHWA/LTPP,** Efforts to improve safety and reduce traffic control and lane closures LTPP has explored automated distress data collection and performed some pilot work. However progress is on hold pending the outcome of Reauthorization. The report entitled “Long-Term Pavement Performance Automated Faulting Measurement” has been published and is available at: <http://www.fhwa.dot.gov/publications/research/infrastructure/pavements/ltp/14092/>

Based on the report’s Recommendations further validation of this work is planned. LTPP is investigating transverse profile data collection to automate rut measurements with high level precision and accuracy.

**10:20-11:05 am Making Pavement Decisions Using Automated Conditions Following AASHTO Standards, Miller, KS DOT,** Presentation (available in Sharepoint folder)

**11:05 – 11:25 am Continuing the development of 2D pavement surface distress detection to maximize the value in existing/historical pavement image repositories, Nazef, FL DOT,** Presentation (available in Sharepoint folder)

**11:25-11:50 am Procedures for Collecting Reference Transverse Profiles, Pedro Antonio Serigos, University of Texas at Austin,** Presentation (available in Sharepoint folder)

**11:50 am-12:55 pm lunch**

**12:55-2:40 pm Research Needs Statements, Elisha Wright-Kehner, AR HTD,** reviewed and updated existing RNS and discussed potential new RNS’s.

The group agreed that RNS’s should be developed into NCHRP format to improve the probability that the RNS will be supported/funded by others. It was agreed that three RNS’s were determined to be of priority to develop and distribute at all opportunities at TRB. The following are the RNS subjects and task groups:

- Pavement Performance Data Needs Assessment, led by Luhr, WADOT, other task group members: Smith, MSDOT, Miller, KSDOT, Choubane, FLDOT, Mergenmeier, FHWA
- Calibration/Verification of Image Collection, led by Daleiden, Fugro-Roadware, other task group members: Choubane, FDOT, Huang, TXDOT
- Calibration/Verification of Image Analysis, led by Andrews, MDSHA, other task group members: Choubane, FDOT, Huang, TXDOT, Daleiden, Fugro-Roadware

The group brain stormed 9 additional RNS subjects. The group agreed to ballot all participants at this meeting to gain their input on prioritizing the development of these RNS’s subjects into NCHRP format RNS’s. The ballot is expected to be distributed in late November/early December.

**2:40-2:50 pm TPF-5(299) meetings, information, and interaction, Mergenmeier, FHWA,** Strong support to keep face to face meeting in conjunction with RPUG if possible due to value of RPUG information and interaction with industry. Encourage keeping the information and interaction ongoing throughout the year to maintain momentum of the group.

**2:50 pm End of Meeting**