

**PCCAS Paving Asphalt Committee Meeting**  
**University of Nevada, Reno**  
**October 8, 2014**  
**Minutes**

1. The meeting was called to order at approximately 8:15am by Shauna TecleMariam. Shauna welcomed the attendees and called their attention to the provided agenda, which served as the plan and guide for the meeting. An attendance sign-in sheet was distributed with Antitrust Compliance requirements attached, and self-introductions were made.
2. A report was made by the Asphalt Rubber Task Group.
  - a. George Way led the presentation of the A-R Task Group. He discussed provided an update on asphalt rubber issues including:
    - i. Cup and bob testing that is occurring. Various groups are evaluating this test method for use with asphalt rubber. There is no specific organized testing or round robin but rather individuals investing the method for use.
    - ii. CalTrans has a proposal to include 5% tire rubber in all mixes. This is a proposal to get ideas on how and where tire rubber could be incorporated into highways.
    - iii. Rubberized Asphalt Rubber Conference to be held in Las Vegas, NV on October 4-7, 2015.
  - b. Sallie Houston provided information on round robin testing of various asphalt rubber products. Samples are scheduled to be sent out in November 2014.
3. Mike Anderson from the Asphalt Institute presented the final findings and results from the Pacific Coast Conference on Asphalt Specifications (PCCAS) Interlaboratory Study to evaluate the precision of AASHTO TP 70 – the multiple-stress creep-recovery test and also commonly used plus tests in the PCCAS. A copy of the final report can be found on the PCCAS website. This effort was coordinated through the Round Robin Task Group.
4. A report was made by Bob Humer on the efforts of the newly formed MSCR Task Group. The task group compiled results from a survey conducted on the use of the MSCR test method by Users and Producers in the PCCAS. Two separate surveys were conducted and the results have been posted on the website.

The task group also reported that Arizona DOT has performed a review and collected data regarding the MSCR test. This work will be finalized in a report that will be completed soon and will be shared with the committee. In addition, this may be a topic that could be presented at future committee meetings.

The charge as provided by the committee to the task group was completed. The Committee discussed the direction of the task group and if more work needed to be done on this issue. A new charge was proposed to the task group as follows:

*Gather existing data collected by agencies and producers in regard to the AASHTO M 332 specification framework and AASHTO T 350 test method and establish specific protocol for future testing of binders.*  
This new charge was approved by the Committee.

5. Haleh Azari, from NIST presented information on a new testing procedure. This procedure and methodology is a repeated load permanent deformation type of test. Details of the Incremental Repeated Load Permanent Deformation (iRLPD) were provided in the presentation. Please see the website to view the presentation. The method is currently being balloted by AASHTO as a provisional standard.
6. Bob Humer provided details regarding Asphalt Institutes new version of MS-2 that will be published in January 2015. The new version has some minor nomenclature changes and will contain the Marshall, Hveem, and Superpave mix design methods. This is a more comprehensive manual than has been published in the past.
7. Joe Devol provided a brief recap of items and issues discussed at the Emulsion Committee Meeting. For additional information, see the posted minutes of the meeting on the website.
8. Brad Neitzke provided an update on issue and information provided at the AASHTO Subcommittee on Materials meeting that occurred in August. Items from the meeting included:
  - The 34<sup>th</sup> Edition of the standards has been published (August 2014)
  - There was a lot of discussion in various Tech Sections regarding the language of thermometers and temperature measurement. AASHTO is moving toward a specific standard that would provide specific requirements for thermometers and would be handled in similar manner as the standard for balances used for mass measurement.
  - FHWA reported on pooled fund work relating to procedures associated with the AMPT – especially in relation to high RAP mixes.
  - NCHRP Report 752 is complete. The ETG Task Force will review the recommendations in regard to high RAP and binder replacement protocols.
  - Canada (Ontario) provided information regarding a “Double Edge Notch Test” and usage for controlling low temperature cracking. Ontario is also using an extended BBR conditioning time of 72 hours in consideration of their colder climate.
  - The DSR and BBR methods are being updated by Dave Anderson and will be provided to the Tech Section for review and ballot.
  - A Ground Tire Rubber Task Force was formed as part of the Tech Section for Asphalt (2b)
  - FHWA will issue a contract to update the LTPPBind program.
9. Shauna Tecle-Mariam provided an update on the Binder and Mix expert Task Groups. See the presentation slides for information that was presented.
10. Committee members shared information about the use of high-percentages of recycled asphalt pavement (RAP) and recycled asphalt shingles (RAS) among agencies.
  - a. For Caltrans, it was reported that the current specifications will allow up to 40% RAP in the bottom lift. Up to 5% RAS could be used; however, the binder replacement and grading would be tested for compliance.

- b. Nevada DOT maintains the level of allowable RAP at 15 percent, and does not allow the use of RAS.
  - c. The Washington DOT implemented a specification for the use of RAP at levels above 20%, and for the use of RAS at levels up to 5%, both based upon a maximum binder replacement level of 40%. Through the analysis of the RAP/RAS binders and blending with either a virgin binder or recycling agent, the contractor must show that the final mix binder is equivalent to the binder originally proposed for the mix. The binder will not be allowed to meet the next higher high temperature grade.
  - d. Oregon DOT allows up to 30% RAP in base mixes and 20% RAP in surface mixes. They have one trial project that is using 50% RAP in the base mix.
  - e. Brad Neitzke reported that WFLHD allows 20% RAP in all mixes with no adjustments
11. The next Paving Asphalt Committee will be held March 25, 2015. The tentative location is Room 109, Harry Reid Building at UNR. Other task group meetings and committee meeting will be held on March 24, 2015.
12. Additional meetings are scheduled for October 13-14, 2015. There was some discussion regarding the possibility of a conference meeting. This will be determined later this year by the Suppliers.
13. Shauna adjourned the meeting at approximately 4:00pm.

Respectfully submitted,

Brad Neitzke  
Shauna TecleMariam

# Pacific Coast Conference on Asphalt Specifications

## Paving Asphalt and Mix Committee

October 8, 2014  
Reno, Nevada

NAME	REPRESENTING
1. Brad Neitzke	WFL
2. Joe DeVol	WSDOT
3. Sallie Houston	VSSI
4. Bob Staugaard	APART
5. Steve Burhaus	Paramount Petroleum
6. Jesse Davidson	Innophos
7. Albert Vasquez	CALIF. DEPT. OF TRANS (CALTRANS)
8. Kevin Heitschmidt	Albina Asphalt
9. Gregory Hunt	ERCO AEE
10. Christine Chia	Paramount Petroleum
11. Brenda Mooney	Valero Energy
12. Don Goss Jr	Valero Energy
13. Amir Gotalipour	Antar Pav USA
14. Charlie Pan	Nevada DOT
15. Steven Escobar	Asphalt Pavement & Recycling Technologies
16. Don Powell	SAN JUAN REFRACTOR CO.
17. Bob Hummer	Asphalt Institute
18. Roger Smith	Consultant
19. Mike Andersson	Asphalt Institute
20. Mark Belshe	Rubber Pavements Assoc.
21. Craig Cole	Terra Resources
22. Shauna Teel-Marian	U.S. Oil
23. Larry Ila	ODOT - TELECONFERENCE
24. Huachun Zhai	Idaho Asphalt Supply
25. Travis Elliott	Ultrapave, Corp

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NAME	REPRESENTING
26. ZEID KAISON	NEVADA DOT
27. GEORGE WAY	RAF
28. Ala Mohseni	PaveSys
29. Haleh Azari	AASHTO
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