

**PPTG General Meeting  
June 17, 2008  
Lodi CA**

**Draft Meeting Notes**

1. Introductions. Larry Rouen started the meeting and reviewed the agenda with the group. The agenda is given as attachment 1 while the list of attendees is given as attachment 2.
2. Flexible Pavement group meeting. Hans Ho led this meeting. The following items were discussed:
  - Expectations of co-chairs
  - Introduction of new co-chairs
  - Hans introduced Shakir about the innovation process. Shakir gave speech on the innovation process. He also mentioned Joe Holland developed an innovation flow chart. Shakir, Hans, and the Center will work together to give an easy bullet style of innovation review procedure.
  - Communication Issues. Hans mentioned there are communication needs between PPTG subtask groups, and inside a subtask group. Also make sure not to block Linda Farrell's email from the CP2 Center.
  - Document summarizing responsibilities of Co-Chairs was provided for all participants.
  - Other issues
    - a. Because Haiping Zhou works for Caltrans now, someone else from industry needs to replace him as industry Co-Chair for the PPTG Strategy Selection committee. Rita Leahy was nominated during the session.
    - b. Gary Hildebrand mentioned to post achievements of PPTG subtask groups in the Center. Mary Stroup-Gardiner strongly agreed.
3. Rigid pavement subgroup reports. In the absence of co-chair Casey Holloway, Larry Rouen of Caltrans moderated this session. Work plans for the following groups were presented (see attachment 3);
  - Diamond Grinding-no report
  - Dowel Bar Retrofit- Kirsten Stahl presented the work plan for this group. She reported that little has been done and there is a need to meet more on this topic. In particular, the installation procedures use by Caltrans needs to be re-visited
  - Partial/Full Depth repair. Vincent Perez reported on some of the activities this sub-group has been discussing including
    - a. Reopening of I-5 project in Santa Clarita
    - b. Other slab replacement projects
    - c. Rapid set concrete
    - d. Pre-cast panels
  - Innovations. Gary Hicks indicated the need to document innovations used by the concrete group. John Roberts submitted a proposal for Next Generation

Concrete Surfaces – NGCS) quiet pavements that needs to be acted on. The concrete group should be encouraged to submit other innovations.

- Summary. Kirsten led a discussion of other relevant items. She mentioned that the concrete group needs to define what preservation for concrete pavements is. For example, do we need to include slab stabilization in the next version of the MTAG? She also mentioned the need for JIT training and certified inspectors.
4. Joint Rigid and Flexible reports. Shakir Shatnawi and Hans Ho moderated this session. They reviewed the roles and responsibilities of the chairs and subtask group co-chairs shown in attachment 4 and added a few others for themselves such as removing barriers, integrating the task groups and disseminating information. They also discussed the need for using the new database to document the innovations. Reports were given by the following (need to get copies of all the work plans);
- Local agencies-northern CA. George Bradley gave a report for the NOCAL agencies indicating the following are needed;
    - a. Be involved and promote the PPTG
    - b. 50 % of conference attendees are from the local agencies
    - c. Need to work with Phil Demery to promote the PPTG
  - Local Agencies-southern-CA. Greg Kelly and Eric Updyke reported on the activities they have been involved with
    - a. Statewide needs assessment-trying to get more revenue for streets and roads
    - b. Collecting names of potential members. Difficult to get local agencies involved unless there is something in it for them
    - c. Behind NoCAL in the use of pavement preservation strategies used. Need to incorporate these strategies into the Greenbook
  - Innovation. Gary Hicks and Ding Cheng gave a report on the status of innovations and the innovation database. The database is now operational; however a few changes still need to be made. The website for the database is [http://www.ecst.csuchico.edu/cp2c/innovation\\_database/](http://www.ecst.csuchico.edu/cp2c/innovation_database/).
  - Strategy selection. In the absence of the co-chairs, Gary Hicks gave a short report on the activities and plans for this sub-group;
    - a. Strategy selection process for both flexible and rigid pavements has been updated
    - b. Estimated lives and cost of treatments have been developed
    - c. Life extensions for the treatments will be based on an analytical study until PMS data is available
    - d. Cost effectiveness of a proactive preservation program was studied and shown to be up to 50 % more cost effective depending on the agency and the condition of the pavement to which the treatment is applied.

- e. Plans for future work should be to refine the strategy selection process, the lives of the treatments and the life extension, and to redo the cost effectiveness studies
- f. Rita Leahy is the new industry co-chair of this committee and Gary Hicks is her back-up
- Quiet pavements. Bill Farnbach gave a presentation on his activities including the following(we need to get a copy of his presentation):
  - a. AZ and CA noise studies on flexible pavements. Not much has been done on concrete pavements
  - b. Lessons learned-fix the problems that make noise before making a preservation treatment
  - c. PCC industry is coming out with a quiet grind and we hope to investigate it in CA.
- Education. Larry Rouen reported on the activities of his group;
  - a. MTAG training- completed in March 2008. Plans are for another session in SOCAL in December 2008
  - b. The MTAG is now on the Caltrans website (<http://www.dot.ca.gov/hq/maint/roadway.htm>). It needs to be modified some to incorporate the review comments from the March training
  - c. The full training will be reduced in time from 5 days to 3 days
  - d. A four hour MTAG overview will be delivered in the districts in 2008-09.
- Warranties. Shawn Rizzutto reported that little is being done and that work on performance based specs needs to be done.
- Surface Characteristics. James Lee reported that the following has been done:
  - a. Smoothness and texture (skid resistance) are the most important attributes for preservation
  - b. Both can be measured at moving speeds
  - c. Specifications for smoothness and texture need to be developed
  - d. Contact James if you need smoothness or skid measurements
- Outreach. Gary Hicks and Laura Melendy reported on the activities and plans of this sub-group:
  - a. The 2008 conference was planned and executed
  - b. The 2009 conference is being planned for the Bay Area. Laura will contact potential committee members. A meeting will be held in September 2008 to finalize the program and the speakers
  - c. The 2010 conference will be held jointly with the CA conference in Newport Beach
  - d. Fact sheets, tech briefs and research notes will be an output of the group
  - e. PPTG meeting support is also provided by this group
- Pavement management. Sui Tam reported the following:
  - a. The group was formed in 2007
  - b. Members include local agencies, regional transportation groups, consultants and Caltrans

- c. Developed sessions for the 2008 conference
    - d. Will provide outreach on PMS and will work with LTAP and the Center to do this.
  - Crack sealing/joint resealing. In the absence of the co-chairs, Larry Rouen reported that:
    - a. Specs have been developed for various climate zones
    - b. Updating the MTAG chapters and training modules.
  - Research. Larry Santucci and Mike Samadian gave a presentation on the activities of this group. It included the following:
    - a. Completed Analysis of Caltrans PMS Data from late 1990s/early 2000s regarding Pavement Preservation Practices, Expected Lives of Thin Overlays, and Life Cycle Cost Analysis of Pavement Preservation.
    - b. Developed Technical Advisory Guide for Pavement Preservation Experiments in California
    - c. Completed Evaluation of MB Asphalt Overlays under HVS Testing
    - d. Gathered Additional Information regarding Importance of Tack Coats between Asphalt Pavement Layers
    - e. Plan to complete Chip Seal Guide for Caltrans
    - f. Will incorporate 3 Pavement Preservation ETG Research Needs into Caltrans Partnered Pavement Research Program with Pavement Research Center at UC Davis
    - g. Will complete Last Reports on Dowel Bar Retrofit, including Summary
    - h. Plan to complete Final Reports on 3 years of Noise, Durability, Friction and Roughness Monitoring of Asphalt Overlays
    - i. Will measure noise on concrete surfaces
5. Rigid pavement subtask group meetings. Discussion topics included:
- Emissions. Currently cement produces 1-3 % of the total CO2 emissions. There is an effort underway to reduce this
  - Recycling concrete- there was considerable discussion on recycling concrete materials. This is being encouraged for alternate uses.
  - Rapid set concrete. Considerable work has been done on this topic. Documentation of the best practices would be useful
  - Innovations. The concrete group also discussed the need to document innovations
6. Flexible pavement sub-task group reports
- Recycling. Don Matthews provided the report of the following;
    - a. Completed MTAG Chapter and training module
    - b. Completed fact sheet
    - c. Conducted training on across the State.
    - d. Will develop monitoring programs for CIR on route 62 in D8 and for HIT in D 2 and D8
    - e. Continue training across the State

- f. Will develop design matrix and guidelines
  - Slurry/microsurfacing- Gary Kevorkian;
    - a. Completed what??
    - b. Future plans include reviewing the chapter and training modules as well as development of fact sheets on these products.
  - Binder- Edgard Hitti gave a power point presentation
    - a. Adopted PG 76-22TR for use on chip seals
    - b. Will work with the chip seal task group to incorporate this change.
  - Interlayer- Scott Dmytrow;
    - a. Provided training module for MTAG training
    - b. Still working on chapter to add a decision tree for the section. Getting close. Will update training module when chapter is done.
  
  - Chip Seal-Jim Ryan
    - a. Completed Test sections for PMA and Terminal Blend tire rubber chip seals for district 11 along with follow-up inspections and data collection
    - b. Completed specification review for hot chip precoating and maximum ambient
    - c. Plan to update MB chip seal spec
    - d. To provide definition and picture guide for flushing
    - e. To develop real-time training for chip seals
    - f. To develop strategy selection document
  - Fog Seal-John Fox reported:
    - a. Plans for additional test sections.
    - b. Longer than expected time to for friction values to return to acceptable level after application of fog seal. Sanding is used to help.
  - Thin Overlay- No report give.
  - Patching and Repair- Mary Stroup Gardiner;
    - a. Plans for field reviews with Milt Apple.
    - b. Plans to revise the training module and the chapter
7. Closing comments/wrap-up. Shakir Shatnawi, Hans Ho, and George Bradley thanked all for participating in the meeting. Our next meeting is tentatively scheduled for December 2<sup>nd</sup> at the LA county offices. All subgroups were reminded to provide their presentations and work plans to Larry Rouen ASAP.