Update On FHWA Activities

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AASHTO Committee on Maintenance
2018 Annual Meeting
July 24, 2018
Charlotte, North Carolina
Key Topics of Discussion

- PPETG
- Every Day Counts (EDC-4)
PPETG History and Concept

• New PPETG met for first time in September 2015 in Washington DC

• Original Pavement Preservation ETG (PPETG) was established in 1997

• Original PPETG was discontinued in 2007

• An Expert Task Group (ETG) is a group of expert individuals possessing broad knowledge in a particular discipline who provide technical advice to the Federal Highway Administration (FHWA)

• FHWA sponsors the ETG
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<th>PPETG Membership</th>
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<tr>
<td><strong>James Gray (Lead)</strong>*</td>
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<tr>
<td>FHWA-HQ</td>
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<tr>
<td><strong>Larry Scofield</strong></td>
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<td>IGGA</td>
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<td><strong>Jon Wilcoxson</strong></td>
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<td>KYTC</td>
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<td><strong>Morgan Kessler</strong></td>
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<td>FHWA-TFHR</td>
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<td><strong>John Donahue</strong></td>
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PPETG Mission and Vision Statement

• **Mission:** “The PPETG will advance and improve the state of the practice in the area of highway pavement preservation by working collaborately with federal, state and local agencies, industry, and academic interests”

• **Vision:** “Preserving the nation’s valuable highway infrastructure with the right treatment for the right road at the right time”
Legacy Projects Working Groups

• PPETG decided to form five working groups with a task to develop deliverables in the following areas:

  – “Top Ten List of Characteristics a World Class PP Program”
  – “PP Benefit Calculator”
  – “PP Research and Implementation Roadmap”
  – “PP Performance Measures”
  – “PP Distress Warrants/Intervention Levels” (Trigger Levels)
Top Ten List Task Group

“Top Ten” Characteristics of a World Class Pavement Preservation Program

– Purpose is to identify important characteristics that have been shown to be essential elements of an effective preservation system.

– This list was developed from nationwide surveys of transportation officials, industry partners, and other pavement preservation groups.

– A series of articles will identify the characteristics and then provide an in-depth discussion of each one in upcoming issues of “Pavement Preservation” Journal
New Projects Working Groups

- Synthesis on Contracting (Judy)
- Definitions (Dave L.)
- Outreach (Jon)
- Pavement Preservation Quality Assurance (Jim)
- New Checklist Treatments
- Update Research Roadmap
Wrap-up

• The PPETG meets twice a year face-to-face and meets twice via teleconference
• PPETG meetings are open to the public
• The next several years are going to be exciting due to a large number of states moving forward with the use of PP as part of Every Day Counts 4 (EDC4)
• Going forward...
• PPETG intends to be a valuable resource that work effectively with agency and industry stakeholders to identify and eliminate barriers to implementation of Pavement Preservation
Key Topics of Discussion

- PPETG
- Every Day Counts (EDC-4)
EDC-4 Pavement Preservation: When & Where

Benefits to using a Whole-Life approach to pavement preservation project and treatment selection.
Ensure **States or local agencies** have institutionalized policies governing the selection of pavement preservation projects to support sustainable pavement performance.
Activities

• Implementation Plans (26 states)

• 3 Peer-to-Peer Exchanges to 22 states (complete)
  - (CO, NM, NV, TX, WA, AZ, KS, MN, AL, GA, KY, FL, SC, MO, MS, CT, WV, MD, IL, RI, NY, VA, EFL)

• Integrating Pavement Management to Selecting Pavements for Preventive Maintenance (1.5 Training Workshop)
  - Provided (OK, LA, FL, WA, MO, IL, NM, CO, HI, CA) 728 participants
  - Upcoming (UT, WI, PA)

- Webinar (Fall-Winter 2018)
- Workshop (Fall-Winter 2018)
Activities (contd.)

• Synthesis of guidance for selection and evaluation of preservation practices
• Analysis tool (web-based) for long-term effectiveness
• Providing guidance for Asset Management planning and programing strategies
• Synthesis of cost effectiveness metrics used to calculate performance

EDC-4 Pavement Preservation: How

Focuses upon Quality Construction and Materials Practices of pavement preservation treatments.
National Goal

Ensure **States or local agencies** will be using revised treatment specifications, training construction and inspection personnel, using new construction materials, and/or adopting improved pavement preservation construction practice.
Pavement Preservation: How Quality Construction and Materials

Flexible Pavements
- Micro surfacing
- Chip Seal
- Slurry Seal/Scrub Seal
- Ultrathin bonded wearing course

Rigid Pavements
- Diamond grinding
- Partial-depth repair
- Full-depth repair
- Dowel bar retrofit/cross stitching
Activities

• **Best Practice Technology Briefs**
  - Rigid-surfaced: Missouri DOT (complete)
    [https://www.fhwa.dot.gov/pavement/preservation/resources.cfm](https://www.fhwa.dot.gov/pavement/preservation/resources.cfm)
  - Flexible-surfaced: Nevada DOT (Summer 2018)

• **Peer-to-Peer Exchanges / Update and Share Specifications** (Summer-Winter 2018)

• **Update Pavement Preservation Checklist (Winter 2018)**
  - Add video for common inspection tasks
  - Create app for table and smartphone functionality
Best Practice Technology Briefs

The Innovation Library page. The direct links are below.

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Concrete Repair

Chip seal, slurry seal, micro surfacing, and thin lift asphalt overlay construction quality assurance best practices are nearly complete and documents should be available in the next few months. Please let me know if you have any questions.

http://www.modot.org/services/or/byDate.htm
Existing Asphalt Checklists

• Inspection Checklist #01 Crack Seal Application
• Inspection Checklist #02 Chip Seal Application
• Inspection Checklist #03 Thin Hot Mix Application
• Inspection Checklist #04 Fog Seal Application
• Inspection Checklist #05 Micro Surfacing Application
• Inspection Checklist #11 Hot In-Place Asphalt Recycling Application
• Inspection Checklist #12 Cold In-Place Asphalt Recycling
• Inspection Checklist #13 Slurry Seal Application Checklist
• Inspection Checklist #14 Fabric Interlayer Application
• Inspection Checklist #15 Full Depth Reclamation
Existing Concrete Checklists

• Inspection Checklist #06 Joint Sealing Portland Cement Concrete Pavements
• Inspection Checklist #07 Diamond Grinding of Portland Cement Concrete Pavements
• Inspection Checklist #08 Dowel-Bar Retrofit of Portland Cement Concrete Pavements
• Inspection Checklist #09 Partial-Depth Repair of Portland Cement Concrete Pavement
• Inspection Checklist #10 Full-Depth Repair of Portland Cement Concrete Pavements
Common Protocol

- App based
- Phone
- Tablet
- Print
- Link to supporting document
- See if can link to AASHTO e document
- Accept photos
- Brief videos
Six Asphalt Checklists

- To be developed by NCPP
- Tack Coat
- Scrub Seal
- Patching
- High Friction Surface Treatments
- Cap Seals
- Ultrathin Bonded Wearing Course

- These are in addition to the existing 10 checklists
Two Concrete Checklists

• To be developed by ACPA/IGGA
  Cross-Stitching
  Grooving

These are in addition to the existing 5 checklists
Free PP Web-based Training

FHWA/ISSA partnership

• Flexible surfaced
  – Chip Seal, Micro Surfacing, Slurry Seal Boxes,
  
  http://slurry.org/Docs/WBTPhase1/ISSA_WBT_Login_Instructions.pdf

• Rigid surfaced (summer 2018?)
Other Activities

https://www.fhwa.dot.gov/federal-aidessentials/

Federal-aid Essentials for Local Public Agencies

Federal-aid Essentials Introduction

Federal-aid Simplified. Understanding the Essentials.

More and more, transportation agencies must pursue better, faster and smarter ways of doing business. Federal-aid Essentials offers a central online library of informational videos and resources, designed specifically for local public agencies. Each video addresses a single topic-condensing the complex regulations and requirements of the Federal-aid Highway Program into easy-to-understand concepts and illustrated examples.

To learn more, view the video to the left.

Continuing the Conversation

The FHWA launched Federal-aid Essentials on August 27, 2012 at the American Public Works Association (APWA) International Public Works Congress and Exposition. In a conversation with APWA host Emilie Barta, FHWA Resource Center Director Bernetta Collins tells us more about this program, Federal-aid Essentials. View the video, Continuing the Conversation.

I want to know more about...

the Federal-aid process

Stay Connected with FHWA

Pavement & Materials
Technical Service Team
EDC-4 Resources

https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/
Guidelines for the Preservation of High-Traffic-Volume Roadways (R26)

Your guide to the most-affordable options for extending pavement life

Save Lives

Save Money

Save Time
What questions do you have?
For more information:

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