

NEPPP Accomplishments & Future Directions

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NEPPP Chair



August 27, 2012



Agenda

- Accomplishment
 - State Project Showcase
- Future Direction
 - Needed Research



Accomplishments

State Project Showcase

<http://www.tsp2.org/>

TSP.2
AASHTO
THE VOICE OF TRANSPORTATION

Transportation System Preservation
Technical Services Program

*Preserving our Infrastructure
Investment*

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Welcome

The American Association of State Highway and Transportation Officials (AASHTO) National Center for Preservation and Maintenance Research (NCPMR) and the National Center for Preservation and Maintenance Research (NCPMR) Technical Services Program disseminate information to AASHTO members and other transportation professionals on both pavements and bridges. It provides and up-to-date information on performance and extend useful

National 2012
Midwestern (MPPP)
Northeast (NEPPP)
Rocky Mountain West (RMWPPP)
Southeast (SEPPP)
Other Information

Annual Meetings
Board
By-laws
Guidelines & Specs
Members

TSP2 Search

Search

National Conference

NATIONAL PAVEMENT PRESERVATION CONFERENCE
NASHVILLE, TN
AUGUST 27-30, 2012

Accomplishments

State Project Showcase



Company, or group may join and

The NEPPP 2011 Travel Plan
downloaded [here](#).

The NEPPP's **Vision Statement**, **Mission Statement**, and **Objectives** may
By-Laws.

The Northeast Pavement Preservation Project system can be found [here](#).

Prospective members should contact the National Center for Pavement Prese
at 517-432-8220 or by e-mail at ncpp@egr.msu.edu



Accomplishments

State Project Showcase

- Five agencies have uploaded projects
 - Delaware
 - Maryland
 - Rhode Island
 - New Hampshire
 - Nova Scotia



Accomplishments

State Project Showcase

Maryland State Highway Administration	MD 331	MD 331 from Caroline County Line - June Way (M.P 0.08 - 3.21)	3.13	\$230,000	
New Hampshire DOT	I-93 NB & SB (Campton)	Mile Marker (MM): 81.5 - Mile Marker (MM): 88.3	6.8 miles	\$1,138,500	





2012 NATIONAL PAVEMENT PRESERVATION CONFERENCE ROAD TRIP: DRIVING THE MESSAGE FOR CHANGE





2012 NATIONAL PAVEMENT PRESERVATION CONFERENCE ROAD TRIP: DRIVING THE MESSAGE FOR CHANGE

Accomplishments

State Project Showcase

Basic Information

Project Owner New Hampshire DOT

Contact Information Eric Thibodeau
ETHibodeau@dot.state.nh.us
603-271-3151 (Phone)
603-271-8700 (Fax)

Route I-93 NB & SB (Campton)

Project Limit Mile Marker (MM): 81.5 - Mile Marker (MM): 88

Project Length 6.8 miles



Accomplishments

State Project Showcase

Detailed Information

Project Dates 06/15/2009 - 10/16/2009

Contractor(s) NY Bituminous Products Corp. – Micro-Surfacing
All States Asphalt, Inc. – PPST (Nova Chip)
Pike Industries – 4.75mm latex modified HMA (supplier)
Wolcott Construction – 4.7mm latex modified HMA (layd

Maintenance History Full Depth Reclamation with 6 inches HBP (2003/2004)
Crack Seal 2007

Existing Pavement Condition Good ride quality but was in need of treatment due to surf

Types and Severity of Distress Slight wheel path rutting. Construction joints starting to c
“fines”.
Base/Binder: 1st generation Superpave mix
Wearing Course: 2nd generation Superpave mix



Accomplishments

State Project Showcase

Treatments Applied NB/SB:
MM: 81.5 to 83.2 – Do Nothing Control Section
MM: 83.2 to 85.0 – Micro Surfacing
MM: 85.0 to 86.3 – PPST (Nova Chip)
MM: 86.3 to 88.3 – 4.75mm latex modified HMA

Why was treatment selected? Seal the surface to prevent further weathering and loss of fines and for the different treatments will be tracked over time and compared again

Treatment Details Micro Surfacing – Type 2 (34 lbs/SY)
PPST (Nova Chip) – Type 3 PG 58-28
4.75mm HMA – Superpave 75 gyration PG 58-28; 1.7% latex; placed

Surface Preparation Crack seal. Scarify thermoplastic pavement markings.

Pavement Markings Used Retroreflective Paint - Edgelines & Centerlines
Retroreflective Thermoplastic - Gores

Unique Aspects of Project 1. Micro Surfacing Pavement Markings
a. First lift was placed 26 ft wide



Future Directions Needed Research

Ultimately, we are after the...

Right Fix

for the **Right Road**

at the **Right Time**

How will that be achieved???



Future Directions Needed Research

Data Needs

- What specific data should be captured to promote the use of pavement preservation treatments?
- Data currently captured promotes the use of rehabilitation



Future Directions

Needed Research

Data Needs (cont.)

- **How will that data be obtained?**
 - Must be practical methodology
 - Must be “network-level” collection (useful for project-level), not “project-level” collection



Future Directions Needed Research

Performance Targets

- **What targets should be established to promote the use of PP treatments, as opposed to rehabilitation?**
 - Many targets (unintentionally?) promote worst-first fixes



Future Directions Needed Research

Remaining Service Life Definition

- **How can RSL be defined to promote the use of PP treatments?**
 - Many RSL definitions are just structural or ride quality
 - Functional condition must also be included (e.g. skid resistance, environmental cracking)



Future Directions Needed Research

Treatment Use Criteria

- **For each treatment, under what conditions is it okay to use?**
 - Just as importantly, when is it **not** okay to use?
 - Have specific, objective, measureable criteria: do not rely on “structurally adequate” or “not too far gone”



Future Directions Needed Research

Treatment Use Criteria

- **For each treatment, under what conditions is it okay to use?**
 - What kind of pre-treatments are needed before the preservation treatment can be placed?
 - What condition can be expected after placement?



Future Directions

Needed Research

- **Practitioners must be made aware of the research outcome**
- **Output must be geared towards practitioners...it must tailored to the implementing audience!**
 - **More practical, less theoretical**



Bottom Line

- **There is plenty of focus on new construction and rehabilitation research – yet agencies already have a good handle on that**
- **Much more focus needed on Pavement Preservation research – agencies do not have a good handle on that**



Questions?

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