



# **National Center for Pavement Preservation Initiatives**

**November 15, 2011**

**Puerto Rico  
Pavement Preservation Workshop**

**Larry Galehouse, P.E., P.S.**  
**Director, National Center for Pavement Preservation**

# AASHTO

**Transportation System Preservation  
Technical Services Program**

## TSP•2

# Regional Pavement Preservation Partnerships



# Regional Bridge Preservation Partnerships



# TSP•2 Support

- **Program for Pavement & Bridge Preservation**
- **Financially supported by over 75% of AASHTO member agencies**
- **Over 90% of AASHTO member agencies participate in regional partnerships**



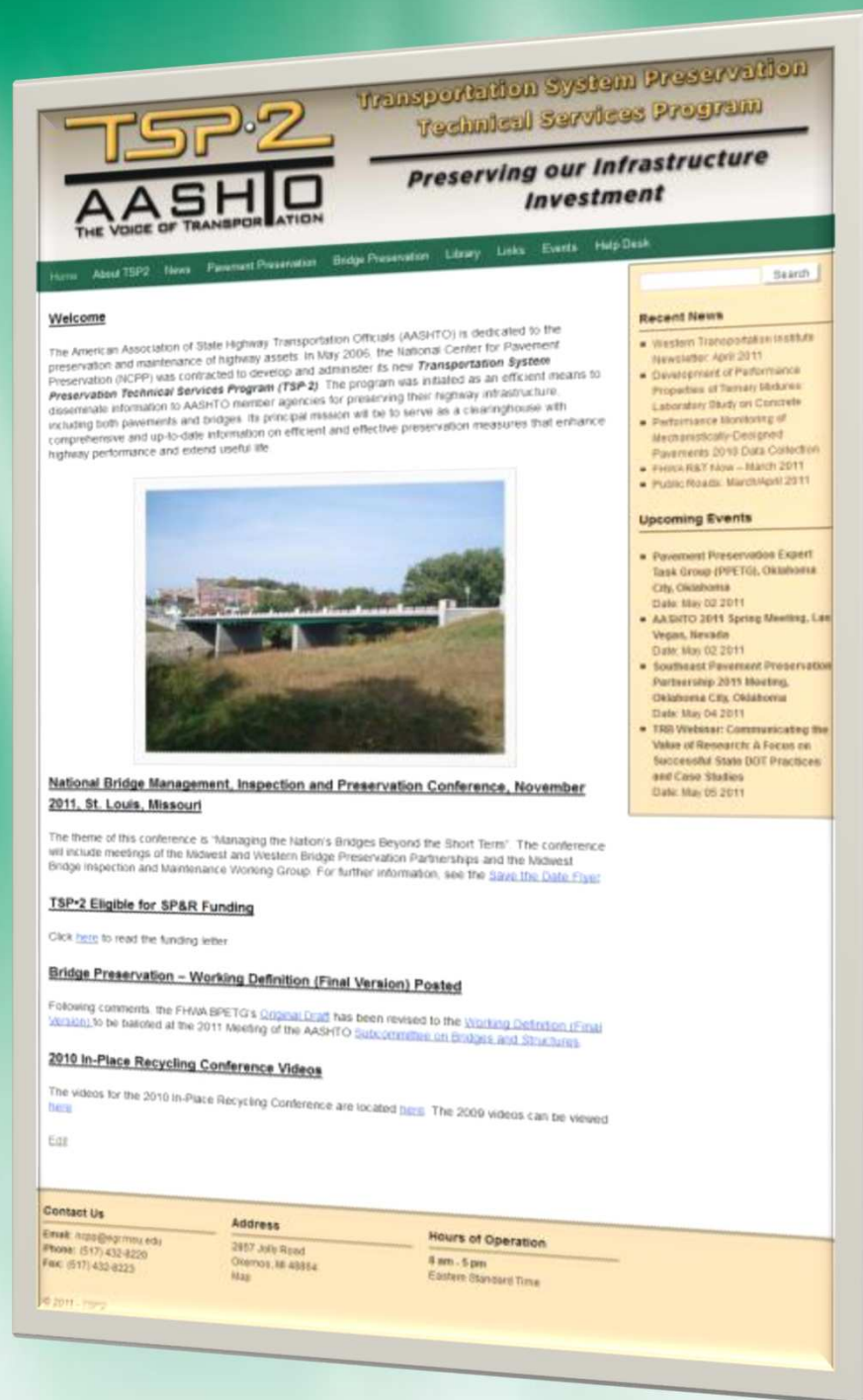


# TSP•2 Involvement

- Increasing participation from industry groups - *ACPA, AEMA, ARRA, ARTBA-BPA, FP<sup>2</sup>, IGGA, ISSA, NAPA* -
- More awareness by local agencies
- Building university membership and awareness throughout the country

# New website design

[www.tsp2.org](http://www.tsp2.org)



HOME

ABOUT TSP2

NEWS

PAVEMENT  
PARTNERSHIPS

BRIDGE  
PARTNERSHIPS

LIBRARY

EVENTS

FORUMS

LINKS



# TSP•2 Events

- Co-sponsor of National Bridge Management, Inspection and Preservation Conference in St. Louis, MO (Oct 31- Nov 4, 2011)
- Co-sponsor of National Pavement Preservation Conference, in Nashville, TN (Aug 27-30, 2012)





# National Pavement Preservation Conference

August 27-30, 2012

Nashville, TN

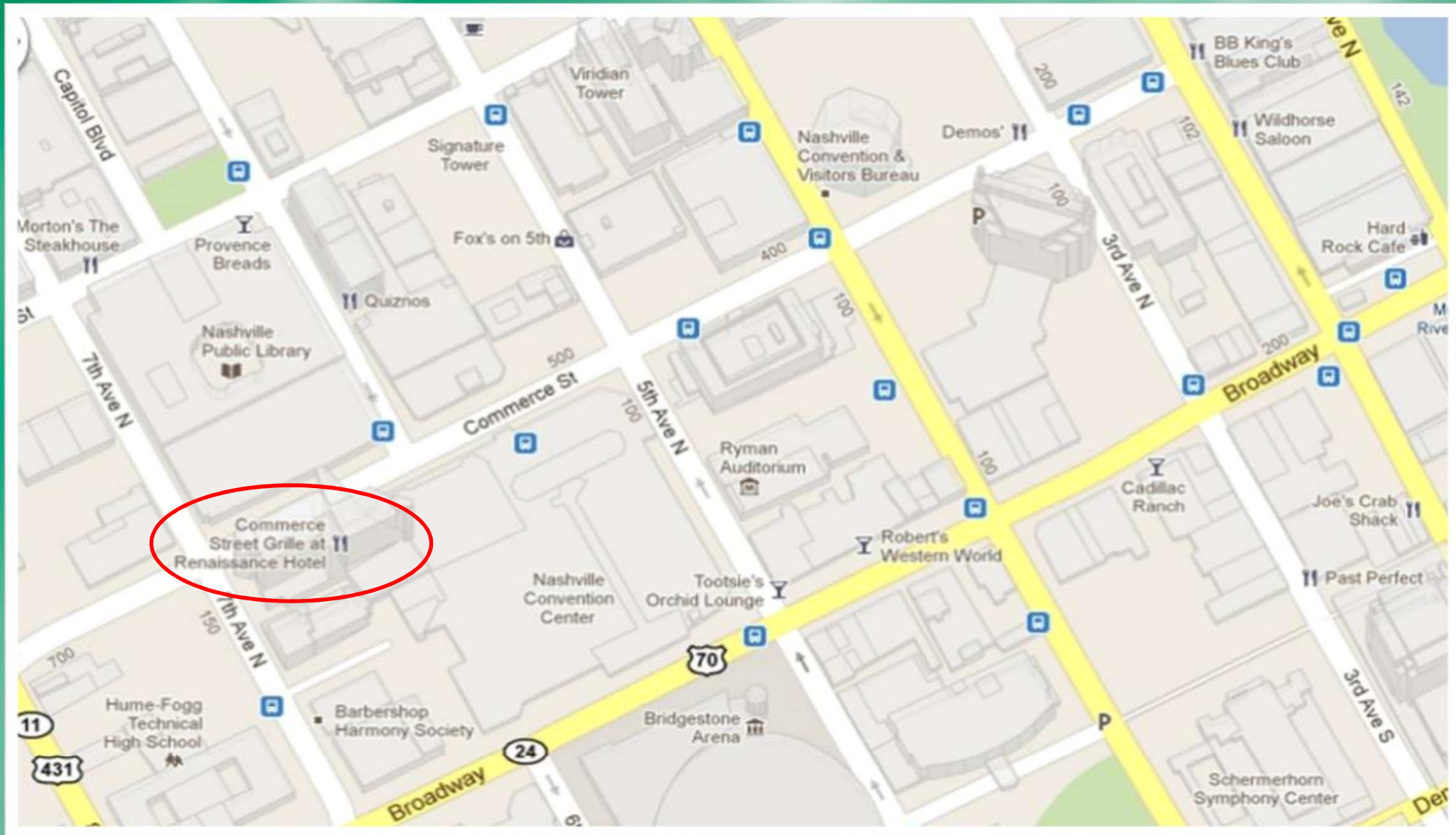


## Road Trip: Driving the Message for Change



# Renaissance Nashville Hotel







# Keynote Speakers

## Confirmed

**Robert E. Skinner, Executive Director, TRB**

**Brian C. Roberts, Executive Director, NACE**

**Baxter Burns, President, Ergon Asphalt**

## Invited

**Kirk T. Steudle, President, AASHTO**

**Congressman John J. Duncan, Jr., Tennessee**

**John Schroer, Commissioner, Tennessee DOT**

**Victor Mendez, Administrator, FHWA**

**Ray LaHood, Secretary of Transportation**



# Field Demonstrations

## LIVE

### Rigid Pavement Applications

- Dowel Bar Retrofit
- Spall Repair
- Diamond Grinding

### Flexible Pavement Applications

- FiberMat Chip Seal
- Thin HMA Overlay
- Micro surfacing
- Scrub Seal
- Skidabrator
- Rejuvenator Seal



# Ribbon Cutting



# Conference Tracks

1. **Pavement Preservation Practices**
2. **Pavement Preservation in a Pavement Management/Asset Management World**
3. **Pavement Preservation Training, Communication and Public Relations**
4. **Pavement Preservation Research and Innovative Technologies**
5. **Sustainable Benefits of Pavement Preservation**
6. **Pavement Preservation for Local Agencies**
7. **Pavement In-place Recycling**

# Schedule Day One

Date/Day	Tentative Agenda	
August 27 Monday	AM	(8:00 – 10:00) <b>Concurrent Regional Partnership Meetings</b> Midwestern Northeast Rocky Mountain West Southeast
		Break (10:00 – 10:30)
		(10:30 – 12:00) <b>Concurrent Regional Partnership Meetings</b> Midwestern Northeast Rocky Mountain West Southeast
	Lunch	
	PM	(1:00 – 3:00) <b>Opening Plenary Session</b> Opening Remarks & Welcome – Jim Moulthrop Keynote Speaker - FHWA Keynote Speaker - TRB Keynote Speaker - NACE Keynote Speaker – FP <sup>2</sup> Inc. Keynote Speaker - TBD
		Break (3:00 – 3:30)
		(3:30 – 5:30) <b>Agency Plenary Session</b> Midwestern - TBD Northeast - TBD Rocky Mountain West – TBD Southeast – TBD Round Table Discussion <b>Field Demonstration Overview</b>
		Reception (5:30 – 7:00)

# Schedule Day Two

Date/Day	Tentative Agenda	
August 28 Tuesday	AM	(8:00 – 11:45) <b>Offsite Field Demonstrations</b> Flexible Pavement Treatments Rigid Pavement Treatments Innovative Preservation Practices
		(11:45 – 12:00) <b>Ceremonial Ribbon Cutting and Media Event</b>
		(12:00 – 1:00) <b>Field Luncheon</b>
	PM	(1:00 – 1:30) <b>Buses Return to Hotel</b>
		(1:30 – 2:30) <b>Industry Plenary Session</b> Peter Grass, Asphalt Institute John Roberts, ACPA and IGGA William Wilkins, The Road Information Program
		Vendor Displays & Break (2:30 – 3:30)
		(3:30 – 5:30) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 1 – Flexible Pavement Surface Treatments</i> Track B: Pavement Preservation in a Pavement Management/Asset Management World <i>Session 2 – Integrating Pavement Preservation Into Pavement Management Systems</i> Track C: Pavement Preservation Training, Communication, and Public Relations <i>Session 3 – Effective Education Programs and Delivery Methods</i> Track D: Pavement Preservation Research and Innovative Technologies <i>Session 4 - Achieving Pavement Preservation Research Needs</i>
		Reception (5:30 – 7:00)



# Schedule Day Three

Date/Day	Tentative Agenda	
August 29 Wednesday	AM	(8:00 – 9:45) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 5 – Rigid Pavements Treatments and Repairs</i> Track D: Pavement Preservation Research and Innovative Technologies <i>Session 6 - Innovative Materials</i> Track E: Sustainable Benefits of Pavement Preservation <i>Session 7 - Quantifying the Benefits</i> Track F: Pavement Preservation for Local Agencies <i>Session 8 – Best Local Agency Practices</i>
		Break (9:45 – 10:15) (10:15 – 12:00) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 9 – Crack Treatment Techniques</i> <i>Session 10 - Properties of Asphalt Materials</i> Track C: Pavement Preservation Training, Communication, and Public Relations <i>Session 11 – Marketing the Benefits of Pavement Preservation</i> Track D: Pavement Preservation Research and Innovative Technologies <i>Session 12 – Using Innovative Technologies</i>
	Luncheon & FP <sup>2</sup> Preservation Award Ceremony	
	PM	(1:30 – 3:15) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 13 – Treatment Selection</i> <i>Session 14 - Thin HMA/WMA Overlays</i> Track B: Pavement Preservation in a Pavement Management/Asset Management World <i>Session 15 - Achieving Long-Term Goals</i> Track E: Sustainable Benefits of Pavement Preservation <i>Session 16 – Impacts on Financial, Environmental and Social Indices</i>
		Break (3:15 – 3:45) (3:45 – 5:30) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 17 – Surface Preparation Practices Prior to Application of Pavement Preservation Treatments</i> Track D: Pavement Preservation Research and Innovative Technologies <i>Session 18 – Pavement Surface Properties</i> Track F: Pavement Preservation for Local Agencies <i>Session 19 – Implementing a Local Agency Program</i> Track G: Pavement In-Place Recycling <i>Session 20 – Using Hot In-Place Recycling (HIR)</i>
		Reception (5:30 – 7:00)



# Schedule Day Four

Date/Day	Tentative Agenda	
August 30 Thursday	AM	(8:00 – 9:45) <b>Concurrent Track/Session Offerings</b> Track A: Pavement Preservation Practices <i>Session 21 – Addressing Airport Needs</i> Track C: Pavement Preservation Training, Communication, and Public Relations <i>Session 22 – Communicating with the Media and Public</i> Track G: Pavement In-place Recycling <i>Session 23 – Cold In-place Recycling (CIR)</i> <i>Session 24-</i>
		Break (9:45 – 10:15)
		(10:15 – 12:00) <b>Concurrent Regional Partnership Meetings</b> Midwestern Northeast Rocky Mountain West Southeast
	Adjourn	

# Mark Your Calendar



[www.nationalpavement2012.org](http://www.nationalpavement2012.org)





NATIONAL PAVEMENT PRESERVATION CONFERENCE

AUGUST 27-30, 2012 | NASHVILLE, TN

ROAD TRIP:  
DRIVING THE MESSAGE FOR CHANGE



# Seeking Sponsorships For:

- Breakfast
- Lunch
- Break
- Reception
- Printing
- Meeting Packs



# AASHTO

**Equipment Management  
Technical Services Program**

# EMTSP



# Regional Equipment Management Partnerships

- **Midwest**
- **Northeast**
- **Southeast**
- **Western**





# EMTSP Purpose

- **A clearinghouse for equipment specifications, fleet management best practices, and equipment-related research.**
- **Online reference library.**
- **Exchange ideas thorough regional partnerships.**
- **Web-based bulletin board system and listserv.**

# EMTSP Event

- Sponsor of National Equipment Management Meeting, in Mobile, AL (June 24-28, 2012)



# TRAINING OPPORTUNITIES



# A Quick Check of Your Highway Network Health

**by Larry Galehouse, Director,  
National Center for Pavement Preservation  
*and***

**Jim Sorenson, Team Leader,  
FHWA Office of Asset Management**



# NCPP Training

**NCPP offers courses in:**

- **Applied Asset Management**
- **Chip Seal Best Practices**
- **Slurry Seal & Micro-surfacing**
- **Top of the Curve: Fog Seals, Rejuvenators, Crack Sealing and Filling**
- **Basic Concepts for Pavement Preservation**





# NHI Training

**NHI offers web courses in:**

- **Pavement Preservation Treatments**
- **Pavement Management Systems:  
Characteristics of an Effective Program**
- **Many more.....**

# EMERGING TRENDS

4.10

**Percent of Pavement Preservation Treatments Applied by Agency Forces:**

**National Average:**

14 %

 View the Comments for this Chart

## 6.3

## Type of pavement data collected for input into PMS:

Data Type	Percent	Data Type	Percent	Data Type	Percent
Rutting	98%	Ride	88%	Cracking	93%
Faulting	50%	Joint Spacing	12%	Joint Load Trans.	5%
Raveling	38%	Spalling	0%	Bleeding	29%
Patch Deter.	29%	Patching	41%	Other	50%

[View the Comments for this Chart](#)



### 7.3

**What surface condition characteristics are corrected by pavement preservation treatments?:**

Condition	Percent
<b>Distress</b>	76.2%
<b>Rutting</b>	59.5%
<b>Ride</b>	57.1%
<b>Friction</b>	33.3%
<b>Weathering</b>	31%
<b>Other</b>	0%

**Distress** includes Joint Deterioration

**Rutting** includes Drainage and Cross-slopes.

**Ride** includes Corrugations and Faulting

**Friction** includes Bleeding

**Weathering** includes Raveling and Waterproofing

 View the Comments for this Chart

## 8.1

## What treatments are currently used in the agency's preservation "toolbox"?:

\*Agencies may choose more than one

\* 'Not Applicable' means these agencies do not use any pavement preservation treatments

Treatment	Percent	Treatment	Percent	Treatment	Percent
Not Applicable	0%	HMA Inlays	4.8%	Scrub Seals	7.1%
Armor Coats	7.1%	HMA Overlays	95.2%	Slab Replacement	19%
Cape Seals	11.9%	HMA Patching	14.3%	Slurry Seals	40.5%
Chip Seals (Inc. Pass Oil)	83.3%	Joint Sealing	64.3%	Spall Repair / PCC Patching	38.1%
Concrete Pavement Restoration (CPR)	7.1%	Micro-surfacing	73.8%	Surface CIR Recycling	23.8%
Crack Filling	76.2%	Mill and HMA Overlay	64.3%	Surface HIR Recycling	40.5%
Crack Sealing	71.4%	NovaChip ®	59.5%	Surface Patching	7.1%
Cross Stitching	11.9%	Open Graded Friction Course	11.9%	Thin HMA Overlay	52.4%
Diamond Grinding	61.9%	Partial Depth Repair	47.6%	Ultrathin HMA Overlay	7.1%
Dowel Bar Retrofits	45.2%	Profile Milling	7.1%	Ultrathin Whitetopping	9.5%
Flush Seals (Inc. Pass Oil)	4.8%	Rejuvenators	14.3%	Under-Drain / Drain Cleanout	7.1%
Fog Seals (Inc. Pass Oil)	31%	Sand Seals	7.1%	Under-sealing	21.4%
Full Depth Repair	54.8%				

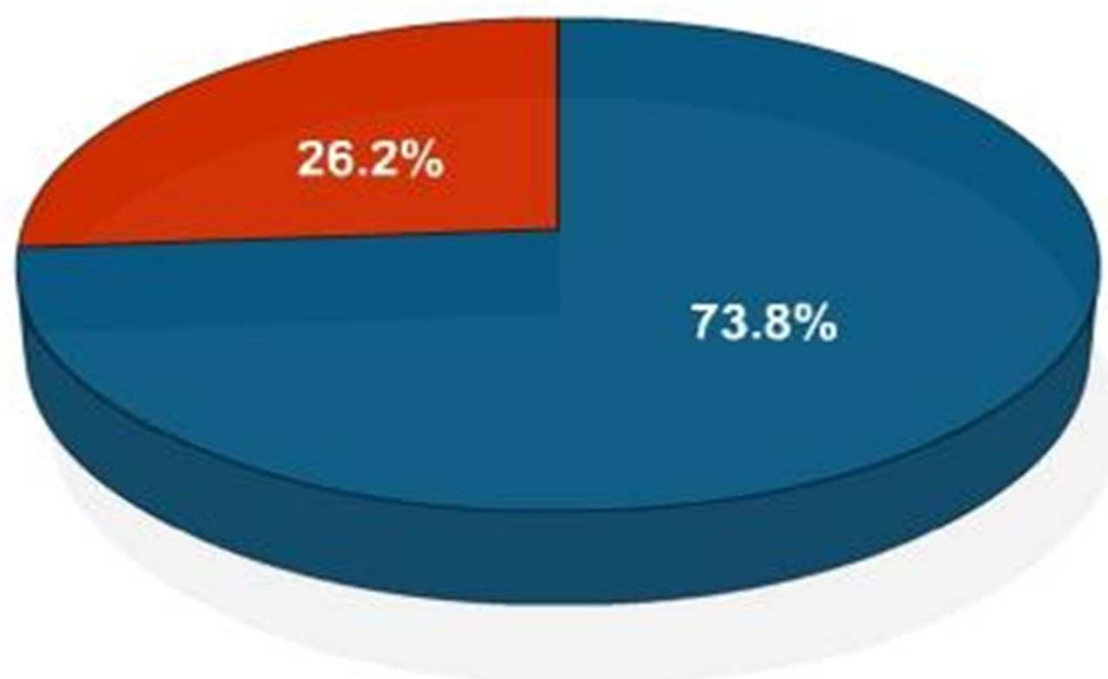
 View the Comments for this Chart

11.8

Does the agency routinely use polymers in asphalt binders?:

■ Yes

■ No



 View the Comments for this Chart

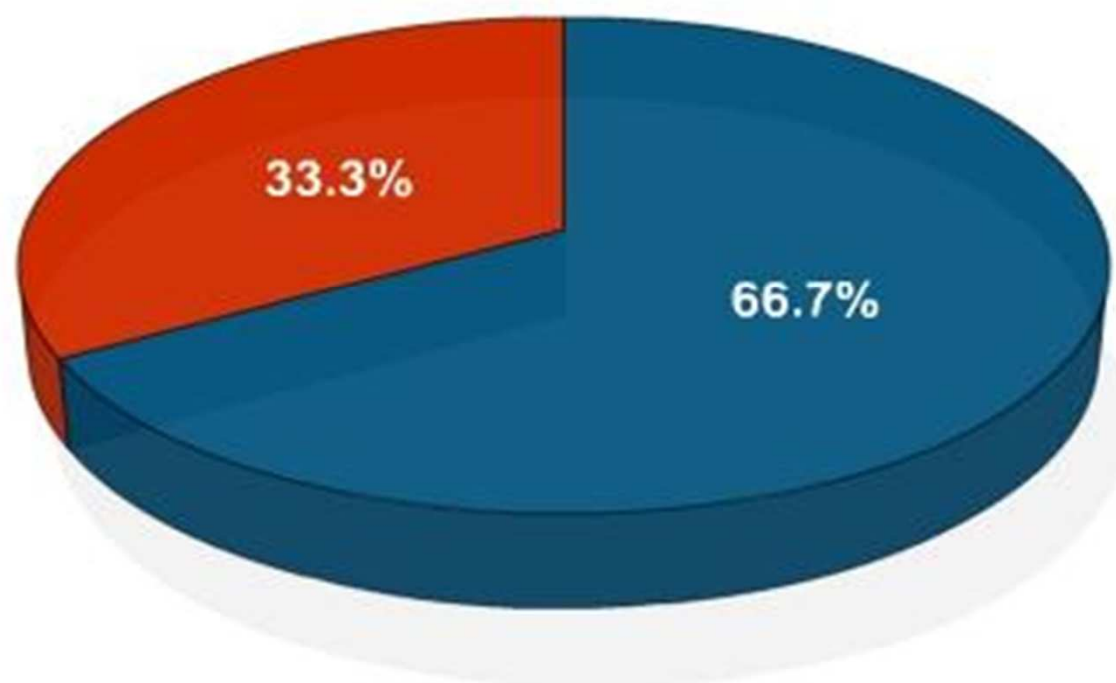
View the [long description](#) of this pie chart showing percentages of respondents routinely using polymers in asphalt binders.

11.9

Does the agency routinely use polymers in emulsions?:

■ Yes

■ No



 View the Comments for this Chart

View the [long description](#) of this pie chart showing percentages of respondents routinely using polymers in emulsions.



# Local Agency Pavement Preservation Councils



# Purpose of Councils

- Support education and advance outreach assistance to local agencies for pavement preservation and asset management.
- Provide a neutral and productive environment for pavement preservation and asset management education

# Council Members

- **Contractors, Suppliers, Consultants, Local Government Officials, and Academia**
- **Initial Funding from Industry Members**

# Education Process

- All training coordinated through NCPP
- Classes conducted at location selected by local agencies
- Taught by recognized experts approved by NCPP
- Participants received CEUs from Michigan State University



# Education Process



# Benefits

- **Fosters technology transfers between academia, industry, and agencies**
- **Agencies understand and accept preservation treatments**
- **Increases number of preservation jobs**
- **Greatly reduced poor or unacceptable projects**

# TSP•2 Media Campaign

**A National Public Education Campaign**



***Changing Course to Preserve our Highway Investment***



# TSP•2 Media Campaign

## Campaign Resource Toolkit

- Spokesperson Training Guide
- Spokesperson talking points
- Media fact sheet
- News release template
- Opinion column template
- Letter to editor template
- Article for trade publications
- Campaign brochure
- PowerPoint presentation
- Campaign video





# TSP•2 Media Campaign

## Campaign Resource Toolkit

- Member access NCPP website:  
[www.pavementpreservation.org](http://www.pavementpreservation.org)
- Member access TSP•2 website:  
[www.tsp2.org](http://www.tsp2.org)
- Media access Coalition website:  
[www.preserveourroads.com](http://www.preserveourroads.com)



# TSP•2 Media Campaign

**Coalition to Preserve America's Roads**

**A Coalition creates a  
“chorus of voices”  
for pavement preservation**

**Recruiting organizations as coalition members must see:**

- 1. Merit of Issue**
- 2. Need to preserve our infrastructure**
- 3. Benefit for the American Public**



# NCPP Staff



**Larry  
Galehouse**  
Director



**Patte Hahn**  
Administrative  
Manager



**John O'Doherty**  
Project Specialist  
- Road



**Nick Bourland**  
Accountant



**Gregg Gaddy**  
IT Specialist



**Patricia Miller**  
Education  
Specialist



**Darlene Lane**  
Travel  
Coordinator



**Doyt Bolling**  
Local  
Programming



**Ed Welch**  
Project  
Specialist -  
Bridge



**Dick Baron**  
Equipment  
Management  
Specialist



**John Hooks**  
Bridge  
Preservation  
Specialist



**Aaron Algrim**  
Production  
Specialist



**Ebony  
Houston**  
Student  
Assistant



**Samantha  
Hahn**  
Student  
Assistant



# Questions ?



**Enjoy your Day!**

