

# NCPP Update



## Midwestern Pavement Preservation Partnership

November 13, 2013

Larry Galehouse, PE, PS, Director





# Regional Pavement Preservation Partnerships



# Pavement Preservation Journal





# NCPP

## Pavement Preservation Technical Appraisals



- **Completed pavement preservation program appraisals in 44 state DOTs since 2005**
- **Completed appraisals of Federal Lands Highway Division, National Park Service, U.S. Fish & Wildlife, and major counties**
- **Completed development and refinement of database of appraisal findings**



2013

REPORT  
CARD

★ for ★  
★ america's  
★ INFRASTRUCTURE

March 2013

**Roads:** Targeted efforts to improve conditions and significant reductions in highway fatalities resulted in a slight improvement in the roads grade to a D this year. However, forty-two percent of America's

# Roads

2013  
GRADE **D**



## Raising the Grades: Solutions that Work Now

- ➔ **Develop performance-based investment strategies** which will ensure that available resources are directed to those projects with the highest performance return on investment
  - **Optimize usage of existing highway capacity** to ensure the best use of available funding
- ➔ **Encourage the use of asset management programs** to provide for the most efficient use of maintenance and repair investment
  - **Use freight movement efficiency** as a measure of the overall surface transportation system's performance and contribution to economic strength
- ➔ **Increase investment from all levels of government and the private sector**, to repair and improve the nation's highway systems



# 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**

# Pavement Preservation

. . . is **NOT** about  
Maintenance as Usual



# Local Pavement Preservation Councils





U.S. Department of Transportation  
**Federal Highway  
Administration**

# **Pavement Preservation Emulsion Task Force**



# **Pavement Preservation Emulsion Task Force**

## **GOALS**

- 1. Develop improved pavement preservation specifications**
- 2. Create surface graded emulsions**
- 3. Establish new recovery methods**
- 4. Identify better and more representative emulsion-performance test methods**

# University Transportation Center for Highway Pavement Preservation

**Host: Michigan State University**

# Highway Pavement Preservation Themes

**Materials**

**Performance  
Management**

**Monitoring**

**Michigan State University &  
National Center for Pavement Preservation**

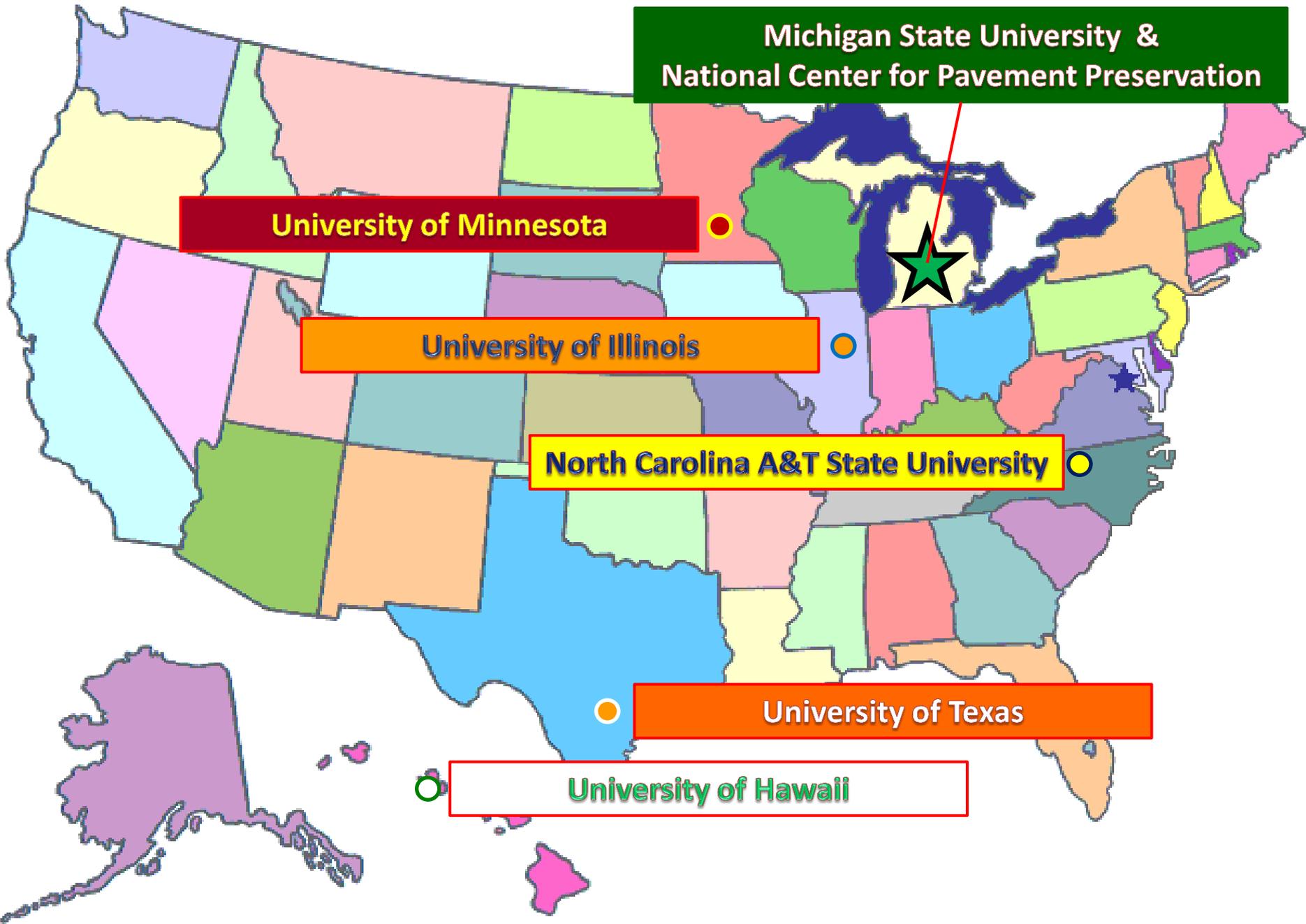
**University of Minnesota**

**University of Illinois**

**North Carolina A&T State University**

**University of Texas**

**University of Hawaii**



# Consortium Partner Leads

- **MSU – Dr. Karim Chatti**  
**NCPP – Larry Galehouse**
- **U of Illinois – Dr. Imad Al-Qadi**
- **U of Texas – Dr. Jorge Prozzi**
- **U of Minnesota – Dr. Lev Khazanovich**
- **U of Hawaii – Dr. Ricardo Archila**
- **NC A&T State – Dr. Elham Fini**

# Creating the Research Needs



Research Task Force



Research Task Force



Research Task Force



Research Task Force

Center Advisory Committee

# Center Advisory Committee

- Michigan DOT – Steve Bower
- Illinois DOT – Dave Lippert
- Texas DOT – Dr. Magdy Mikhail
- Minnesota DOT – Maureen Jensen
- NC DOT – Dr. Judith Corley-Lay
- City & County of Honolulu – Cyndy Aylett
- FP2 Inc – Jim Moulthrop
- FHWA - TBD

**Center  
Advisory  
Committee**

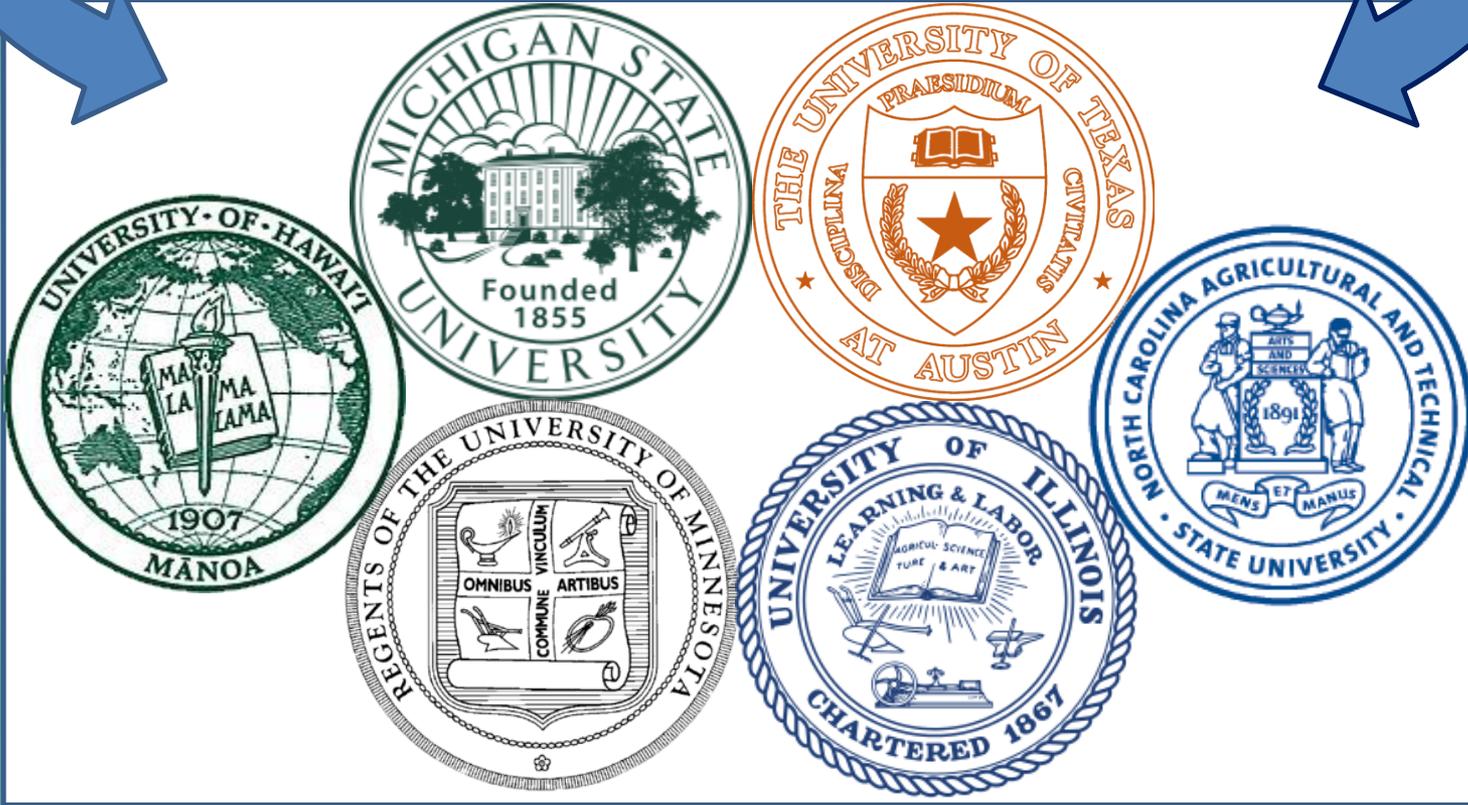
**Selected Research Need Statements**

**Center  
Steering  
Committee**

# Center Steering Committee

- **Dr. Karim Chatti**
- **Larry Galehouse**
- **Dr. Imad Al-Qadi**
- **Dr. Jorge Prozzi**
- **Dr. Lev Khazanovich**
- **Dr. Ricardo Archila**
- **Dr. Elham Fini**

# Center Steering Committee





**Outreach**

**Technology  
Transfer**

**Administrative  
Support &  
Accounting**

# Questions?

**MICHIGAN STATE**  
**UNIVERSITY**



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**Director**

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Please visit us on the web at [www.pavementpreservation.org](http://www.pavementpreservation.org)

