

NCPP Update



Midwestern Pavement Preservation Partnership

November 13, 2013

Larry Galehouse, PE, PS, Director





Regional Pavement Preservation Partnerships



Pavement Preservation Journal





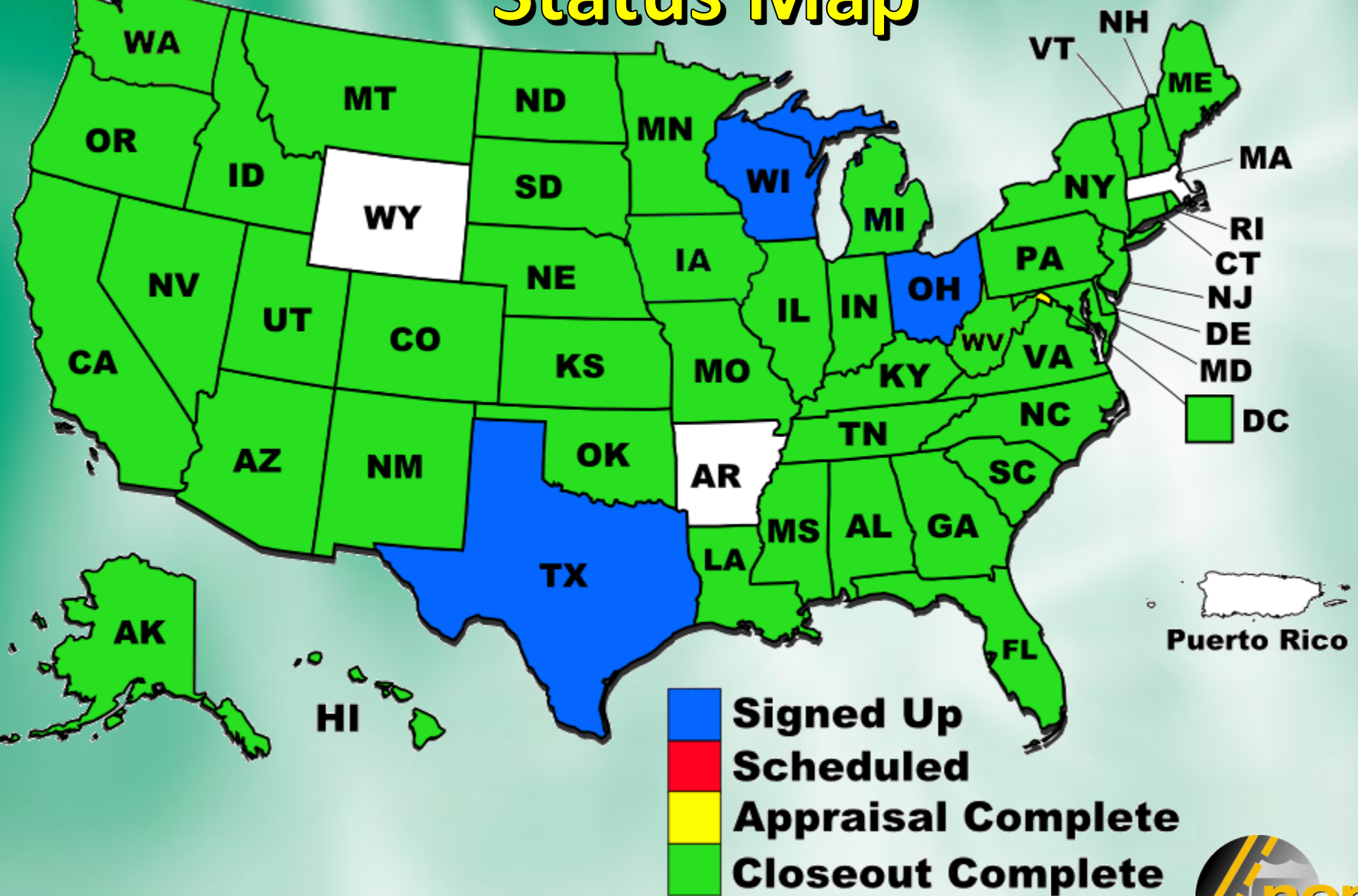
NCPP

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

Status Map



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

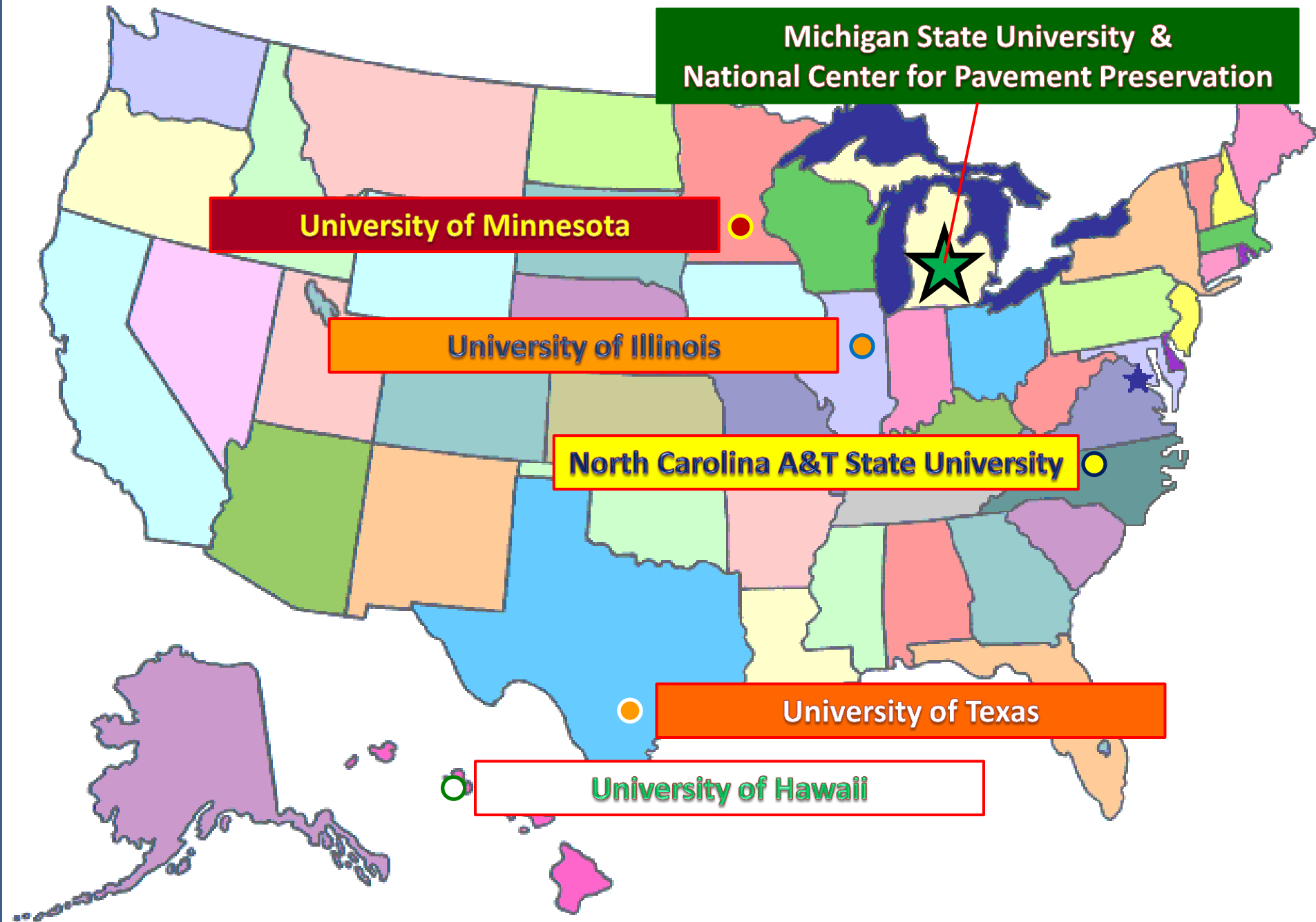
University of Minnesota

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



Larry Galehouse, P.E., P.S.
Director

**National Center for Pavement
Preservation**

2857 Jolly Road

Okemos, Michigan 48864

(517) 432-8220 • Fax: (517) 432-8223

email: galehou3@egr.msu.edu

www.pavementpreservation.org

Please visit us on the web at www.pavementpreservation.org

