

# **Modified Asphalt in a Changing Environment**

## **“Pavement Preservation with Modified Asphalt”**



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**AMAP 12<sup>th</sup> Annual Meeting**

**February 15-17, 2011**

**Peter Montenegro**

**Kraton Polymers LLC**

# **Pavement Preservation**

- **Protect Structurally Sound Pavement**
- **Extend Pavement Service Life**
- **Utilize Eco-Efficient Materials + Methods**
  1. **Reduce Use of Natural Resources**
  2. **Reduce Use of Energy Resources**
  3. **Minimize or Eliminate Air Pollution**
  4. **Minimize or Eliminate Water Pollution**
  5. **Minimize Lane Closures and Traffic Delays**

# Non-Structural Fixes

- Chip Sealing
- Restorative Seals
- Slurry Sealing
- Crack Treatments
- Cape Seals
- Thin Lift Asphalt Paving

**“On Our Pavements Earlier”**

**“On Our Pavements More Often”**

**“Same Day Service”**

# **Political Realities**

- **Reauthorization of the Surface Transportation Law SAFETEA-LU**
- **Highway Trust Fund Deficits**
- **Mass Transit Priorities**
- **Rail and Port Priorities**
- **The New U.S. 112<sup>th</sup> Congress**
- **“Spending Taxpayer Money Well”**



# **Federal Highway Administration Office of Asset Management**

**“Keep our Good Roads Good”**

**“Keep our Good Bridges Good”**

- **Pavement Preservation Expert Task Group**
- **Asphalt Emulsion Task Force**
- **Support of AASHTO for Pavement Preservation**
- **Support of TRB for Pavement Preservation**
- **Support of the National Center for Pavement Preservation**



**American Association of State Highway Transportation Officials**

**TSP2**

**Transportation Systems Preservation Technical Services  
Program**

- **Managed by the National Center for Pavement Preservation at Michigan State University**
- **Systems Preservation for Roads + Bridges**
- **Four Regional State DOT Partnerships with Industry and Academia**

# TSP2



**Midwestern Pavement Preservation Partnership**



**Northeast Pavement Preservation Partnership**



**Southeast Pavement Preservation Partnership**



**Rocky Mountain West Pavement Preservation Partnership**

# **International Slurry Surfacing Association**

- **Crack Treatment**
  - **Chip Sealing**
  - **Slurry Sealing**
- **Micro Surfacing**





**National Center for Pavement Preservation**



**MICHIGAN STATE UNIVERSITY**

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING

- **TSP2 Program with AASHTO**
- **National Pavement Preservation Conference**
- **International Pavement Preservation Conference**

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