

Western Regional In-Place Recycling Conference

Cecil L. Jones, PE

State Materials Engineer

North Carolina Department of Transportation

Salt Lake City, Utah

June 5, 2008

- **Why Recycle?**
- **AASHTO Role**
- **Partnerships**
- **Obstacles to Overcome**
- **Meeting The Challenge**



Reasons to Recycle

- **High Quality Materials in Place**
 - Existing May be Better Than Virgin
- **Limited Disposal Options**
 - Difficult to Find
 - Costly to Dispose

Reasons to Recycle

- **Large Volume of Potential Materials**
 - **2.3 Million Center Line Miles of HMA in Place**
- **Environmental Sustainability**
- **Wards off “Help” from External Influencing Factors**
- **It’s The Right Thing To Do!**

AASHTO Role

- **Publish Standards**
 - **Materials Specification**
 - **Recommended Practice**
 - **Test Methods**
- **Established a Recycling Task Force**

Recycling Task Force

- **Guide Specification Development**
 - **Encourage Committee Chairs**
 - **Challenge Subcommittee on Materials**
- **Coordinate Efforts With Partners**



Recycling Task Force Goals

- **Implement Standards for Recycled Materials Considering**
 - **Engineering Principles**
 - **Environmental Stewardship**
 - **Economic Feasibility**

Partners

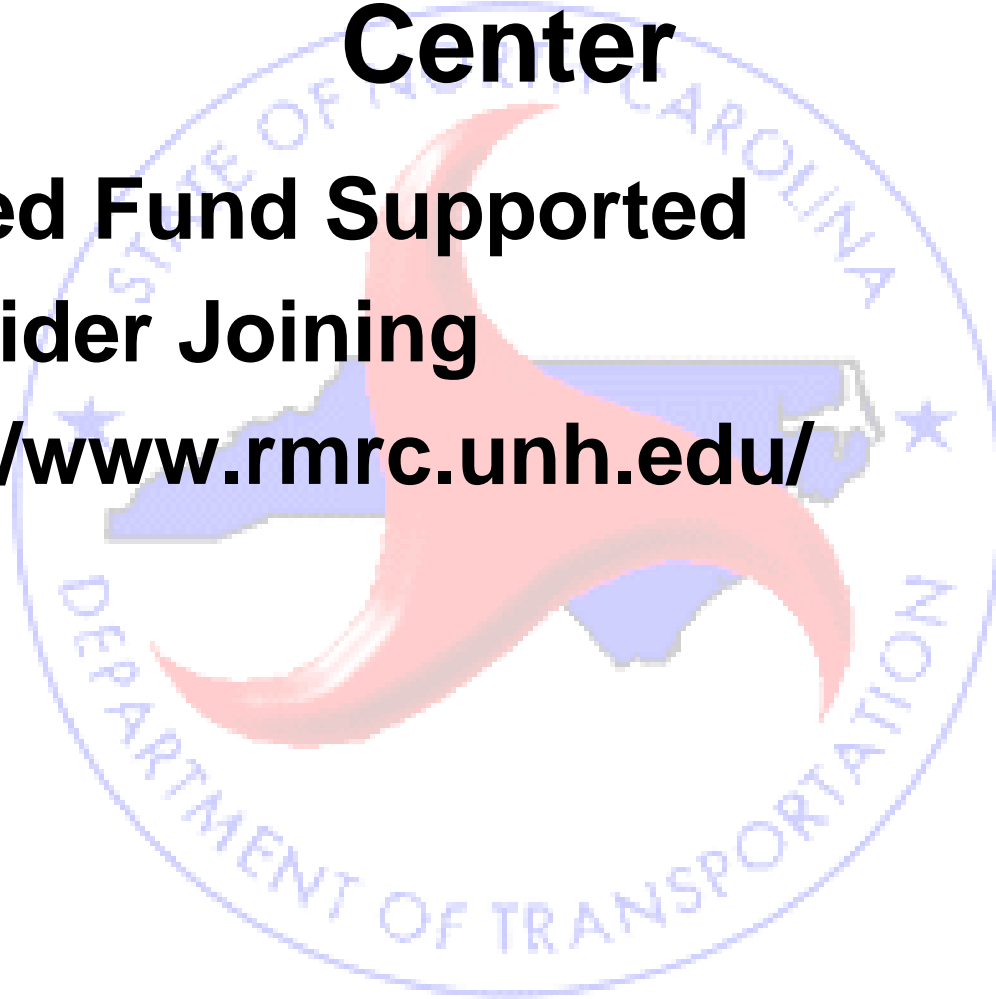
- **States, including State Environmental Agencies**
- **Federal Agencies – FHWA, EPA, Etc.**
- **AASHTO**
- **Industry – Contractors, Producers, ARRA**
- **Recycled Materials Resource Center**
- **Center for Pavement Preservation**
- **Center for Environmental Excellence**

Recycled Materials Resource Center

- **University of New Hampshire & University of Wisconsin – Madison**
- **Develop Guidelines, T², Encourage Use, and Reduce Barriers for Recycling**
- **Provided Basis for Numerous AASHTO Standards**
- **Active Research Efforts**

Recycled Materials Resource Center

- Pooled Fund Supported
- Consider Joining
- <http://www.rmrc.unh.edu/>



Industry Partners

- **Provide Case Study Data**
- **Conduct/provide Research**
- **Open Communication**



Barriers to Overcome

- **Perceptions**
- **Cooperation with Environmental Agencies**
- **Engineering “Help” from Legislative Bodies**
- **Fear of Failure**

Meeting The Challenge

- **Communicate!**
- **All Partners have Same Goals**
 - **Quality Product**
 - **Meeting Specification Requirements**
 - **Environmentally Sound**
- **Document and Share Successes**
- **Be Proactive**

Meeting The Challenge

- **Opportunities Exist**
 - **2.3 Million Center Line Miles of HMA**
- **Seek Innovation**



Meeting The Challenge

- **Work Together to Build Successes in a Sustainable and Environmentally Sensitive Manner that Meets Engineering Requirements**

