

# Sustainable Roadway Materials

## Case Studies + Candid Conversation = Choices

### Workshop Objective

Learn from highway engineers and contractors how using industrial resource materials in highway projects can lower costs and enhance performance while minimizing environmental impacts from mining and transportation.

## September 17, 2014

8:30 a.m. – 4:30 p.m.

McKimmon Center,  
North Carolina State University, Raleigh, NC

Reusing industrial materials where appropriate can help agencies and contractors achieve their Sustainability goals as well as meet Federal and state recycling guidelines. High volume industrial materials can be used in roadway and construction projects to stabilize subsoils, construct bases, pavement courses, embankments and fills, as well as in vegetated swales and erosion controls. Most engineers and contractors are familiar with the use of RAP in paving courses and coal fly ash in concrete. Other industrial resource materials with excellent engineering properties include Recycled Concrete Aggregate, Coal Bottom Ash, Steel Furnace Slag, Tire-Derived Rubber, Asphalt Shingles, Foundry Sand & Slag, and Composts and Mulches from Pulp & Paper byproducts.

This one-day workshop will introduce engineers and contractors to the uses of these materials in roadway construction projects, as well as identifying many tools and resources available to help make sustainable material choices. Roundtable discussions interspersed with case studies will identify knowledge gaps and opportunities for future technology transfer. 5 PDH's offered.

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