Ohio Roadway Materials Workshop

Federal Highway Administration and Industrial Resource Council (IRC)
Sustainable Roadway Materials Workshop

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Todays Outline

• FHWA & ODOT Partnership in getting things done
• Purpose of the FHWA/IRC Materials Workshop
• FHWA Sustainability Efforts
• IRC Product Matrix
• IRC Webpage
• Todays IRC Presentations

Purpose of the Workshop

• To advance the availability and use of multiple recyclable materials
  – Recycled Shingles
  – Scrap Tires
  – Fly Ash for Pavements
  – Recycled Concrete Aggregates
  – Foundry Sands
  – Steel Slags for Bases and Surface Applications

FHWA Stakeholder Engagement

• Asphalt Mixture and Binder ETGs
  – Warm Mix Asphalt TWG
  – Reclaimed Asphalt Pavement ETG
• Pavement Sustainability TWG
• Concrete Executive & Technical ETGs

NOTE: WMA and RAP ETG’s folded under the Asphalt Mixture ETG (Sep 2012)
Stakeholder Engagement in the FHWA Pavement & Materials Program

Current Program Framework

- Establishment and Coordination of a Sustainable Pavements Technical Working Group (TWG)
- Evaluation and Assessment of Existing Tools
- Development of Reference Documents on Sustainable Pavements and Materials
- Evaluation and Assessment of Sustainable Techniques
- Technology Transfer and Deployment

FHWA Sustainable Pavements Program Goals

- Increase the use of “sustainable” technologies and practices in pavement design, construction, and maintenance – 2002 Policy memo “first consideration”
- Increase the body of knowledge regarding “sustainability” aspects of asphalt and concrete materials in pavement design, construction, and maintenance.
- Support the US DOT goals for live ability and sustainable transportation

ETG Pavement Discussions

- Concrete Strategies for Sustainability
  - Mixture optimization
  - Long-Life Designs
  - RCA, Industrial By-Products, Two-Lift Paving
- Asphalt Strategies for Sustainability
  - WMA
  - RAP, RAS
  - Perpetual Pavement Thickness
  - In-Place Recycling
IRC Matrix of Recycled Materials

- Six Materials identified for use in 25 different applications: The matrix is not finished
- Technical Briefs also available for all materials
- Need to fill in areas

IRC Workshop Topics

- Case Studies
- Rubber additives for asphalt mixtures
- Use of Coal Ash
- Recycled Concrete Aggregates
- Steel Furnace Slag applications
- Foundry Sand Facts
- Compost Materials for Highway Projects

IRC Webpage

www.industrialresourcescouncil.org/

Contacts

FHWA Recycling Program Efforts – by Victor (Lee) Gallivan – Materials Program Coordinator, FHWA-
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Thank You