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)
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

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

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 difference 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

IRC Workshop Topics

Contacts

FHWA Recycling Program Efforts – by Victor (Lee) Gallivan – Materials Program Coordinator, FHWA-
Further questions/answers- go to:

Victor.Gallivan@dot.gov
Off: 317-226-7493
Thank You