

INTERNATIONAL SUSTAINABLE PAVEMENTS WORKSHOP

Fostering US-European Research Collaboration

Airlie, VA

January 7-9th, 2010

Rationale

- **Bring together the leading researchers from the US and Europe so as:**
 - **To compare and contrast best practices in the US, Europe, and other countries**
 - **To explore the vital subject of sustainable pavements, and**
 - **To identify a roadmap of future research needs**

Sustainability in the US and Europe

- **Different trajectories in research and practice**
 - **both have their respective strengths and approaches**
- **European countries have been pursuing such goals for many years**
- **Has only been a strong requirement in the US in recent years**
- **Current strong drive in the US**
- **Compared to the slower-grown and more mature development in Europe**

Main Objectives

- **Identify the main issues associated with the design, construction, & management of sustainable pavement systems**
- **Investigate means by which the level of sustainability of pavements and their constituent materials can be evaluated**
- **Determine the future research efforts that are needed to deliver continuing and increasing sustainability in the sector**

Main Objectives (cont.)

- **Establish a ‘Roadmap’ for the development and implementation of more sustainable pavement engineering and management technologies and practices**
 - **Short-term**
 - **Medium-term**
 - **Long-term**
- **Determine the relative areas of strength and expertise in US and Europe**
 - **Foster international research collaboration that will benefit both regions.**

Why an Invitation-only Workshop?

- **Not another conference**
- **“Retreat” feeling**
 - **Special place**
- **Maximize interaction**
 - **Formal and **informal****
- **Foster innovation & creative thinking**
 - **Innovative bold ideas**
 - **But practical (implementable)**

Format

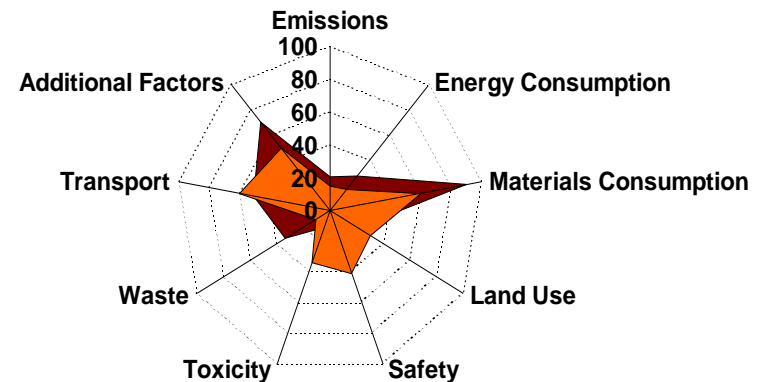
- **Plenary Technical Sessions**

- “Big picture” Issues
- Pavement Materials
- Pavement Systems

- **Sandpit” Sessions**

- **Panel session**

- Agreement of roadmap
- Draft ***Agenda for Sustainable Pavements***



Main Product

Agenda for Sustainable Pavements

- **Technical and societal challenges that must be addressed**
- **Long-term strategic research goals and study areas needed to foster a step-change in pavement sustainability**
- **Few “Quick-win” research projects**
- **International partnerships needed to facilitate the change** (not exclusive to those attending the workshop)

Charge

Think creatively

- Not looking for on “established” ideas
- We want at least a few “outside-the-box” ideas

Think strategically

- Try to leave “personal agendas” out
- Focus on the Longer term

Acknowledgement

Our Sponsors:

- **National Science Foundation**
 - **Larry Banks**
- **Federal Highway Administration**
 - **Tom Harman**

Our organizations:

- **Nottingham Transportation Engineering Center (NTEC)**
- **Virginia Tech Transportation Institute (VTTI)**

¿Questions?

