# Summary of Ideas from Morning Sessions

Research Ideas, thinking behind the ideas, and potential solutions.

- Development of reliable, repeatable and appropriate to use protocols. (1)
  - Do for unpaved roads now and look for broader applications later.
    - Example: vacant lots, construction practices

- What should protocols measure? (2A)
  - environmental safety/impacts
  - occupational safety
  - effectiveness or performance against minimum standards for purpose
    - Measured over the expected life of the control.

- Attributes that should be defined and posted (2B)
  - Service life and manufacturer's warranty
  - Geology
  - Temperature
  - Precipitation
  - Cure time
  - Depth of penetration



- Attributes that should be defined and posted (2B) - continued
  - Solubility for cleanup purposes
  - MSDS
    - Sufficient information to assess risks
  - Shelf life
  - Corrosovity
  - Application process
  - Unit weight
- Performance tied to application practices



- Manual of Essential Practices (3)
  - Available on web
  - Contains
    - information about application methods
    - Information about maintenance
  - Both linked to performance
  - Includes case studies or examples of good practice

#### Education of all involved parties

- Something to teach
  - Web Page, LTAP/TTAP, other industries
  - 2<sup>nd</sup> Annual Dust Conference
  - Form a consortium

- Need for documentation
  - Hard numbers
  - Case studies
  - Plans for how and what to test
- How to achieve?
  - Use existing practices
  - Share information via web site

- Include stabilization BMPs in PMS
  - Identify specifications
  - Identify best practices
  - Maintenance
- How to achieve?
  - Trickle-down influence
  - National pool fund studies
  - Keep it simple



- Long-term product durability
  - Cost-effective solutions
  - Enhanced maintenance programs
  - Increased product reliability
- How to achieve?
  - Work with manufacturers
  - Multi-year funding programs
  - Document successes and failures

# **Environmental Impacts of Dust Suppressants to Control Dust Susan Finger**

- Where are we now?
- Where are we going?
- Who is driving?
- When will we get there?

### **Test Protocols**

Establish test protocols to provide consistent information

Utilize ASTM and EPA methods

Focus initially on water, sediment, and biota

### **Guidance Document**

 Development of guidance document Use Road Safety Audit Program as a potential guide

Using Low Volume Road Committee as a Champion

Look to other manuals, guidance documents to find a model



### **Management Tool**

Develop a clearinghouse for information pertinent to decision making

Toxicity information

Performance

# Summary of Ideas from Morning Sessions

Research Ideas, thinking behind the ideas, and potential solutions.

# Planning and Design for the Future

**David Jones** 

- Peter Bolander (USFS)
- Ken Skorseth (County Engineers)
- John Rushing (USACE)
- Steve Bytnar (Additive Industry)
- Dave Jones (Research)

### **Barriers**

- 1. Client expectations / knowledge
- 2. Client perceptions
- 3. Category specifications
- 4. New product acceptance
- 5. Politics / money future costs
- 6. Central information location
- 7. Research / testing protocols
- 8. Reinventing the wheel
- 9. Product documentation & info
- 10. Education & training



### Way to move forward

- 1. An "owner" for unsealed road specs
- 2. Additive industry association
- 3. Dedicated funding stream
- 4. Additive category specifications
- 5. Research protocol
  - Performance based
- 6. Environmental assessment protocol
- 7. Guidelines and specifications
  - Performance based / cost-benefit
- 8. Education, training, tech transfer



### **Top Three Priorities**

- 1. Guidelines and specifications
  - Performance based / cost-benefit

2. Education, training, tech transfer

- 3. Additive category specifications
- 3. An "owner" for unsealed road specs