

Synthesis & Summary

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Session # 1

■ Introduction and Seminar Objectives

- Extent of problem
- Purpose of Seminar
- Need for Implementable Solutions

■ Chemistry & Mechanisms

- Surface Energy Measurements
- Strong Mechanical Bond
- Mastic Strength

■ Test Methods

- Historical Developments
- Need to Relate Lab to Field
- AASHTO T-283, Wheel Tracking Test
- Key Elements of Improved Test

Session # 2

■ Treatments

- Types (Liquid Additives, Lime, Polymers)
- Effectiveness

■ Design and Production Processes

- Material Production
- Binder Adhesion
- Design Issues

Session # 2

■ Construction Issues

- Minimize Segregation
 - Mechanical
 - Thermal
- Minimize Permeability
- Longitudinal Joints

■ Field Experiences

- Improved Test(s) & Criteria
- Test Mix And Couple With Other Design Measures
- Understand Mechanism and Share Experiences

Session # 3

■ Specifications

- Factors to Consider
- Specification Possibilities
- Implement/Enforce/Refine What We Know

■ Implementation

- Best Practices, Gaps, Needs
- Framework for Breakout Sessions
- Strategic Plan or Roadmap

Recurring Themes

- **Chemical and Physical Properties of Components are Important**
- **Importance of Compaction**
- **Test Related to Field Performance**
- **Enforce Existing Specifications**

Breakout Sessions

- **Fundamentals**
- **Testing and Treatments**
- **Design and Specifications**
- **Construction and Field Performance**

Accomplishments

- **Assemble Renowned Experts and Practitioners**
- **Disseminate Existing Knowledge**
- **Exchange Ideas and Debate Issues**
- **Develop Action Items**
 - **Best Practices**
 - **Gaps in Knowledge**
 - **Research Needs**
 - **Roadmap**
- **Publication of Seminar Findings**

Measures of Success

- **Training and Implementation**
- **Documentation of Field Results**
- **Change in State Practice**
 - Specifications, Tests, Protocols
- **Mitigation of Moisture Sensitivity**
- **NCHRP Funded Research**