Opening Session

Welcome & Opening Remarks
David W. Fowler, The University of Texas at Austin

Keynote: Contract Research: Service or Sinecure?
Scott B. Smith, Western Research Institute

Keynote: Concrete, Aggregates, & Research
James S. Pierce, Bureau of Reclamation

Keynote: Innovations in Aggregate Equipment for the Millennium
J. Don Brock, Astec Inc.

Session A1: Superpave Aggregates Issues

Superpave RAP Mixtures
Rebecca S. McDaniel and Hamid Soleymani, North Central Superpave Center

Effect of Superpave Restricted Zone on Permanent Deformation
Arif Chowdhury, Jose D.C. Grau, Joe W. Button, and Dallas N. Little, Texas A & M University

Session A2: Aggregate Production & Handling

Techniques, Products, & Progress on the U.S. Geological Survey Infrastructure Resources Project
W. H. Langer, B.F. Arbogast, K.J. Ellefsen, D.V. Fitterman, D.H. Knepper, Jr.,
D.A. Lindsey, K.E. Livo, J.E. Roelle, and D.R. Wilburn, U.S. Geological Survey

Technical Aspects of Implementing Rapid Aggregate Gradation
Hyoungkwan Kim, Craig Browne, Alan F. Rauch, and Carl T. Haas, The University of Texas at Austin

Use of the VDG-40 Videograder as a Grading Control Device for French Highway Construction
Yannick Descantes, Gerard Delalande, and Alain Mishellany, Laboratoire Central des Ponts et Chaussées

Automated Sampling & The Road Ahead
Armistead M. Long, John B. Long Company
Session B1: Superpave Aggregates Issues II

Controlling Crushing Costs & Particle Shape
Anthony J. Magerowski, Nordberg Sales Corp.

Using Sand and Gravels in Superpave Mixtures
Kurt W. Hanf, Hanson Aggregates East

Session B2: Fines Issues

High-Fines Concrete in Insulated Form Concrete Construction
Dan G. Zollinger and Christopher R. Faust, Texas A & M University

Potential Errors in the FAA Test
Barry P. Hudson, Aggregates Research, Inc.

Flat & Elongated Ratio Determination Using the University of Illinois Image Analyzer
Erol Tutumluer and Chetana B. Rao, University of Illinois at Urbana-Champaign

Innovative Uses of Aggregate Fines in Hot-Mix Asphalt
Ronald R. Collins, Pavement Technologies, Inc.

Session C1: Unbound Aggregates in Pavements

The Anisotropic Resilient Properties of Unbound Granular Materials
Alex Adu-Osei, Dallas N. Little, and Robert L. Lytton, Texas A & M University

Directional Dependency of Aggregate Stiffnesses: An Indicator of Granular Base Performance
Erol Tutumluer and Umit Seyhan, University of Illinois at Urbana-Champaign

Session C2: Aggregates & Hot-Mix Asphalt

Evaluation of Aggregate Particle Shapes Through Multiple Ratio Analysis
David W. Jahn, Martin Marietta Technologies

Aggregate Effects on the Asphalt-Aggregate Interaction in the Presence of Water
Shin Che Huang, Jan F. Branthaver, Raymond E. Robertson, Western Research Institute

Evaluation of Aggregate Degradation Due to Laboratory Compaction & Ignition Oven Testing of HMA
Patrick V. Kiser and N. Mike Jackson, The University of Tennessee, Knoxville

Session D1: Unbound Aggregates in Pavements II

Investigating the Role of Aggregate Structure in Asphalt Pavements
Naga Shashidar, Xiaoxiong Zhong, Aroon V. Shenoy, and Ernest J. Bastian, Jr., Federal Highway Administration

Model for Predicting Rut Development in Unbound Aggregate Bases
Seong-Wan Park and Robert L. Lytton, Texas A & M University

Denver Area Aggregate Base Courses
G. Scot Gordon, CTL/Thompson, Inc.
Session D2: Aggregate Testing & Classification

Compaction Control of Coarse-Grained Aggregates
Jeffrey A. Farrar, Bureau of Reclamation

Anisotropic Stiffness of Aggregates from Large-Scale Calibration Chamber Tests
Kenneth H. Stokoe II, The University of Texas at Austin, James Ngar-Kok Lee, California Department of Transportation, and Shannon Hsien-Heng Lee, National Taiwan University of Science and Technology

Processing Aggregates to Improve Particle Shape
J. Donald Powell, Vulcan Materials Company

Application of the Micro-Deval Test
Becca C. Lane, Ontario Ministry of Transportation

Session F1: Frictional Properties of Aggregates

Texas Department of Transportation Skid-Reduction Program
Caroline H. Herrera and Kenneth W. Fults, Texas Department of Transportation

Predicting Surface Friction—What Do We Want and What Do We Know?
Chien N. Fu, Quality Integrated Systems, Inc.

Effect of Amount & Size Distribution of the Plus #200 Acid-Insoluble Residue on the Skid Resistance Characteristics of the Loyalhanna Limestone
Margaret C. Thomson, Pennsylvania Department of Transportation