ASTM Overview

- Established in 1898
- Private, Not For Profit
- Provides forum for the development of technical consensus standards
- Over 30,000 members from over 100 countries
- 12,000 standards from 140 technical committees
Technical Committee Examples

- Petroleum
- Plastics
- Environment
- Steel
- Soil and Rock
- Amusement Rides
- Consumer Products
- Water

- Fire
- Road and Paving Materials
- Concrete and Cement
- Pesticides
- Healthcare Informatics
- Ship Building
- Textiles
E17 on Vehicle-Pavement Systems

- Formed in 1960
- 10 Technical Subcommittees, 6 Administrative
- 200 Members from 18 different countries
- 63 Approved Standards
- Meet Face-to-Face twice per year
- Virtual/teleconference meetings as needed
Committee Scope - The stimulation of research, dissemination of knowledge and development of principles, techniques and standards for pavement management technologies, vehicle pavement interactions and Intelligent Transportations Systems (ITS).
Membership

- Open to all stakeholders and those having an interest
- Do not have to be a member to participate
- $75.00/year—Free Volume of standards
- Reduce barriers to participation
- Wider participation translates to better standards
E17 on Vehicle-Pavement Systems

- E17 Stakeholders Represented
  - Equipment manufacturers
  - State DOT’s
  - Federal Government (FHWA, FAA, NASA)
  - Tire/Auto manufacturers
  - Testing Facilities
  - Academia
10 Technical Subcommittees

- **E17.14** Terminology
- **E17.21** Field Methods for Measuring Tire Pavement Friction
- **E17.23** Surface Characteristics Related to Tire Pavement Slip Resistance
- **E17.24** Tire and Slider Characteristics
- **E17.31** Methods for Measuring Profile and Roughness
- **E17.33** Methodology for Analyzing Pavement Roughness
- **E17.41** Pavement Testing, Evaluation, and Management Methods
- **E17.51** Vehicle Roadside Communication
- **E17.52** Traffic Monitoring
- **E17.54** Archived Data User Service
E17.21 Field Methods for Measuring Tire Pavement Friction

- E274-06 Standard Test Method for Skid Resistance of Paved Surfaces Using a Full-Scale Tire
E17.21 Field Methods for Measuring Tire Pavement Friction (Continued)

- E1960-07 Standard Practice for Calculating International Friction Index of a Pavement Surface
- E2340-06 Standard Test Method for Measuring the Skid Resistance of Pavements and Other Trafficked Surfaces Using a Continuous Reading, Fixed-Slip Technique
- E2341/E2341M-05 Standard Test Method for Determining the Stopping Distance Number by Initial Speed and Stopping Distance at Traffic Incident Sites
E17.23 Surface Characteristics Related to Tire Pavement Slip Resistance

- E1845-01(2005)e1 Standard Practice for Calculating Pavement Macrotexture Mean Profile Depth
- E2380-05 Standard Test Method for Measuring Pavement Texture Drainage Using an Outflow Meter
E17.24 Tire and Slider Characteristics

- E1844-08 Standard Specification for A Size 10 × 4–5 Smooth-Tread Friction Test Tire
E17.31 Methods for Measuring Profile and Roughness

E17.31 Methods for Measuring Profile and Roughness (Continued)

- E2133-03 Standard Test Method for Using a Rolling Inclinometer to Measure Longitudinal and Transverse Profiles of a Traveled Surface
- E2560-07 Standard Specification for Data Format for Pavement Profile
E17.33 Methodology for Analyzing Pavement Roughness

- E1489-08 Standard Practice for Computing Ride Number of Roads from Longitudinal Profile Measurements Made by an Inertial Profile Measuring Device
- E1926-08 Standard Practice for Computing International Roughness Index of Roads from Longitudinal Profile Measurements
E17.41 Pavement Testing, Evaluation, and Management Methods (Continued)

E17.41 Pavement Testing, Evaluation, and Management Methods
(Continued)

- D4748-06 Standard Test Method for Determining the Thickness of Bound Pavement Layers Using Short-Pulse Radar
- D5340-04e1 Standard Test Method for Airport Pavement Condition Index Surveys
- D6433-07 Standard Practice for Roads and Parking Lots Pavement Condition Index Surveys
- D6951-03 Standard Test Method for Use of the Dynamic Cone Penetrometer in Shallow Pavement Applications
E17.41 Pavement Testing, Evaluation, and Management Methods (Continued)

- D7228-06a Standard Test Method for Prediction of Asphalt-Bound Pavement Layer Temperatures
- E1656-06 Standard Guide for Classification of Automated Pavement Condition Survey Equipment
- E2583-07 Standard Test Method for Measuring Deflections with a Light Weight Deflectometer (LWD)
General Overview of Different Levels of Balloting

The Committee on Standards (COS)

Main Committee Ballot / Society Review

Subcommittee Ballot

Task Group
Voting vs. Non Voting Status
Voting Rights - Voting vs. Non-Voting

- 1 official vote per interest (company)
- All are welcome to participate in technical discussions
- All members receive a ballot and are eligible to vote on technical issues
- All negatives are considered the same way
- ONLY voting members count toward numerical requirements of percent return and percent affirmative
Subcommittee Balloting

- Subcommittee ballots Authorized by subchairman or a motion at the subcommittee meeting
- New standards and Major revisions
- Ballot Open for Minimum of 30 Days
- Qualifications for Valid Subcommittee Ballot – 60% return and 2/3 affirmative
- Negatives and Comments must be properly considered.
Initiation of Main Committee Ballots

- Submittal Requirements
  - Results of subcommittee ballot
  - Name and affiliation of negative voters
  - Negative voters statements
  - Subcommittee negative resolution including rationale

- Open for 30 Days
- Simultaneous with Society Review
Qualifications for Valid Main Committee Ballots

- 90% Affirmative of Combined Affirmative and Negative Votes
- 60% Return
- Successful Resolution of all Negatives
Possible Resolution of Negatives

- Persuasive
- Withdrawn
- Not Persuasive – Requires a 2/3 affirmative vote from voting main committee members
- One persuasive negative causes the process to start over.
Society Review

- In Tandem with Main Committee Ballot
- Notifications posted on ASTM Website
- Requirements
  - Disposition of All Negatives
Committee on Standards (COS)

- 9 Member Group Representing ASTM Committees
- Due Process
- Appeals Based on Procedural Matters (NOT Technical)
- COS Ballot Procedures
- Final Approval
Thank you

ASTM Website:
www.astm.org

E17 Homepage:
www.astm.org/COMMIT/E17.htm