# Setting Standards for Sustainability ASTM International Committee E60

October 6, 2009 ANSI Panel on Building a Sustainable Future



# INTERNATIONAL

# What is ASTM?

### An Introduction to ASTM International

- Voluntary consensus standards for materials, products, systems and services
- Standards for more than 100 industrial and management sectors
- Proven, practical, vital
- Established in 1898





### What is ASTM International?

- Globally relevant, technically excellent
  - Complies with World Trade Organization principles for the development of international standards; Annex 4 of WTO Technical Barriers to Trade Agreement
  - o All stakeholders invited
  - Public and private sector cooperation
  - Electronic tools for document development and delivery
  - Standards used in research and development, product testing and quality systems







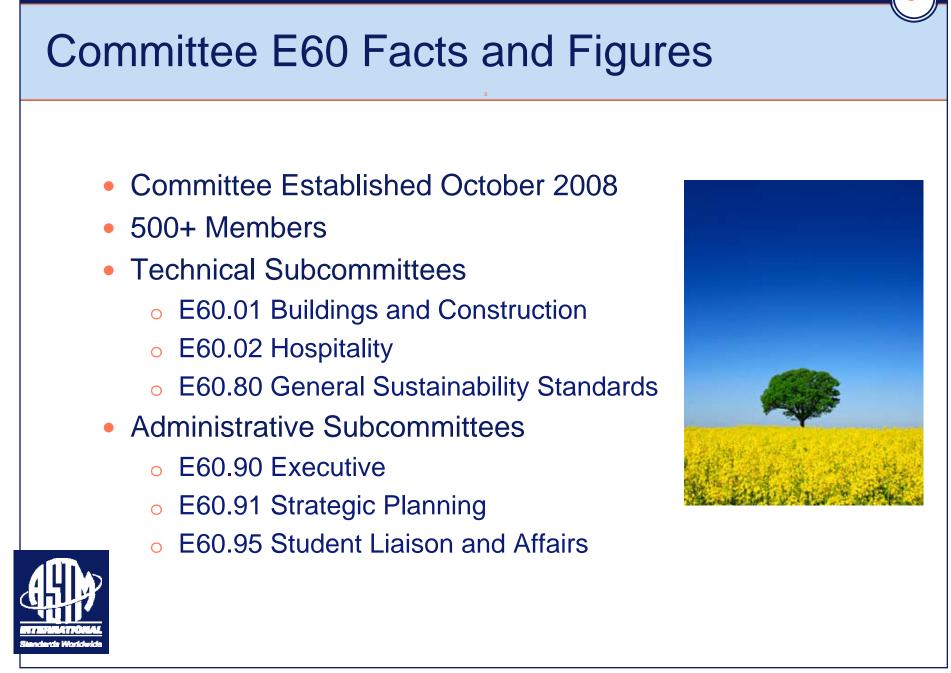
## **ASTM International and Sustainability**

Many ASTM International committees address sustainability: infrastructure/built environment, water, agriculture, energy, products, waste, materials, and toxics (partial list):

- o C01 on Cement
- C09 on Concrete and Concrete Aggregates
- o C16 on Thermal Insulation
- D02 on Petroleum Products and Lubricants
- o D03 on Gaseous Fuels
- o D04 on Road and Paving Materials
- o D05 on Coal and Coke
- o D18 on Soil and Rock
- D19 on Water
- D20 on Plastics
- o D22 on Air Quality

- o D34 on Waste Management
- o E06 on Performance of Buildings
- E35 on Pesticides and Alternative Control Agents
- E44 on Solar, Geothermal and Other Alternative Energy Sources
- E47 on Biological Effects and Environmental Fate
- o E48 on Biotechnology
- E50 on Environmental Assessment, Risk Management and Corrective Action
- F40 on Declarable Substances in Materials





## **ASTM Sustainability Database**

http://www.astm.org/COMMIT/sustain.html

- 500+ ASTM standards
- 300+ standards from other organizations
- Open submission process





## **Current Sustainability Standards**

### Sustainability Standards

- 10+ published standards for sustainable buildings and construction
- Key document: ASTM E2432, Standard Guide for General Principles of Sustainability Relative to Buildings
- E2114, Terminology for Sustainability Relative to the Performance of Buildings







### Standards under Development

### Draft Standards

- 6 draft standards related to sustainability in infrastructure/buildings
  - Minimum requirements for a building promoting sustainability, assessing rain water quality, water stewardship, marketing and product claims related to sustainable buildings, and more
- 9 draft standards for sustainability in hospitality
  - Practices for evaluating and selecting hotel and meeting accommodations, other event spaces, food and beverage, and more







## Looking Ahead

- E60 Planned Work
  - Topics:
    - ♦ Infrastructure
    - ♦ Packaging
  - Forum Discussions:
    - ♦ Plastic
    - ♦ Life Cycle Assessment





### **Future Meetings**

- October 18-19, 2009
  Life Cycle Assessment Workshop
  ASTM October 2009 Committee Week
  Atlanta, Ga.
- October 20-22, 2009 ASTM October 2009 Committee Week Atlanta, Ga.
- April 12-14, 2010 ASTM April 2010 Committee Week St. Louis, Mo.







