



Standards Development: *The View from the Inside*

June 14, 2012

Benefits of being involved, for

Your agency

You

- Leadership skills
- Career development
- Connect with your public and industry

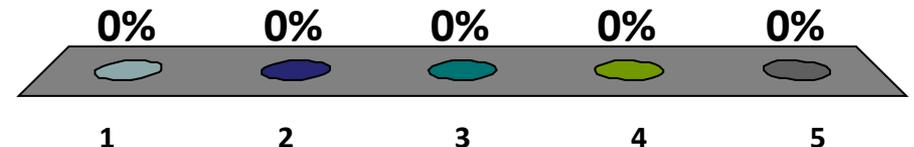
Standards
development
is not for
sissies!



POLLING QUESTION:

Which Agency participates in the most standards organizations?

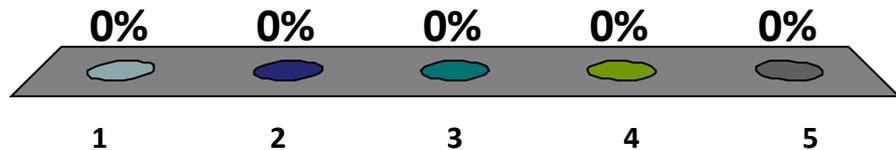
1. Transportation
2. Energy
3. Commerce
- ★ 4. HHS
5. Interior



POLLING QUESTION:

This SDO's standards are referenced the most in the Code of Federal Regulations

- ★ 1. ASTM
2. ASME
3. SAE
4. NFPA
5. API



Today's Discussion

- Standards landscape
- Process
- How you can participate
- How to select an SDO

Standards are integrated into Regulation

- 10,000+ citations to standards in the Code of Federal Regulations
- 362 standards developers (SDOs), including:
 - ASTM International NFPA
 - AOAC International IAPMO
 - ASME API
 - SAE International American Nuclear Society
 - ISO Tea Association
 - Tire & Rim Assn. Almond Board of California

SDO	Scope	Standards	Technical Committees	Volunteers	Revenue
ASTM Intl.	Characteristics and performance of materials, products, systems, and services	12,000+ standards; +232 in 2010	142; +1905 SCs and WGs	32,000+	\$53 million; \$35 million publication sales
ASME Intl.	Codes and standards for all engineering disciplines	600+ standards and codes	100	4700	\$106 million; \$62 million publication sales
SAE Intl.	Automotive, aerospace and commercial vehicles industries	10,400 standards and technical documents	700 committees	14,000+	\$47 million
NFPA	All aspects of fire and other risks	300 codes and standards	243 committees	70,000	\$91 million; \$53 million publications revenue
API	All aspects of the oil and gas industry	600	380 committees and subgroups	43,4800	\$181 million 2010 income

Standards Development Landscape

- Hierarchical
- The committee may be small – perhaps 10 people, or if it is a controversial topic there could be fifty or more people participating
- The committee will have a chairperson and perhaps a secretary responsible for managing the committee's paperflow

ASTM's Committee D14 Adhesives

[D14.03](#) Research

[D14.04](#) Terminology

[D14.10](#) Working Properties

[D14.30](#) Wood Adhesives

[D14.40](#) Adhesives for Plastics

[D14.50](#) **Hot Melts, Pressure Sensitives, and
Archival Adhesives**

[D14.60](#) Adhesive Material Classification System

[D14.70](#) Construction Adhesives

[D14.80](#) Metal Bonding Adhesives

[D14.90](#) Executive

[D14.91](#) Long Range Planning

[D14.99](#) ISO Activities

Snapshot of the standards setting environment

- Technically oriented social activity
 - Long-term commitment – often spanning three to five years
 - The system is open
 - The activity is voluntary
 - Diversity of interests
- 
- A blue decorative shape, resembling a stylized wave or a curved arrow pointing right, is located in the bottom right corner of the slide.

Who are the Standards volunteers?

Academics

Administrators

Architects

Association Members

Consultants

Consumers

Engineers

Government Enforcers

Government Representatives

Lab Managers/Technicians

Labor Organizations

Lawyers

Manufacturers

Marketing Professionals

SDO Employees

Installers

Producers

Research & Development

Retailers

Retirees

Scientists

Suppliers

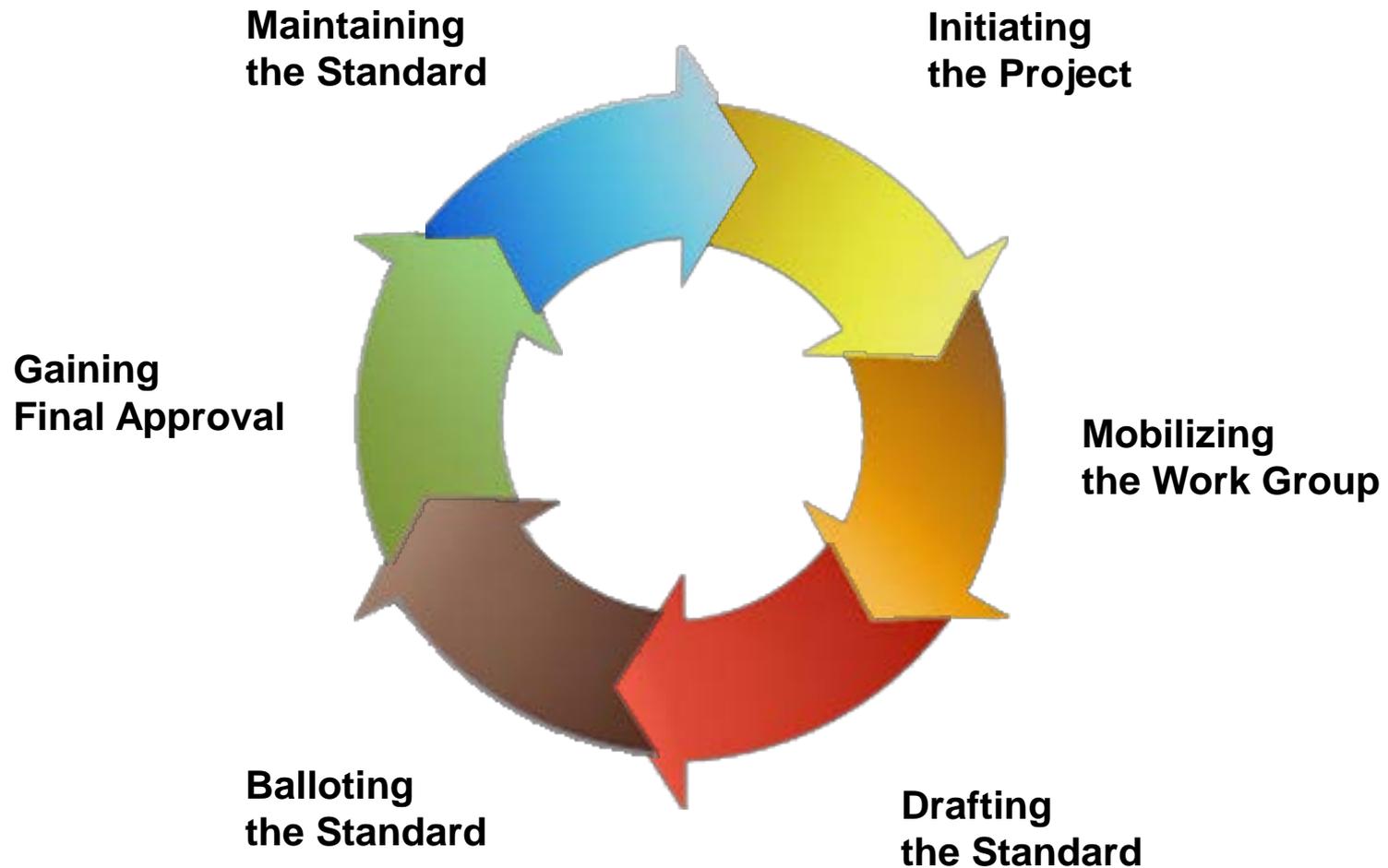
Committee Leadership

- Chair of the Subcommittee (standards writing group)
- Committee vice-chair
- Secretary
- Staff liaison

Basic Tools that Support the Process

- Operating procedures
- Style manual
- The work and communications will be largely online
 - Tools will be available to help your committee do its work: templates, training resources, etc.

Standards development life cycle



Getting started

- Developing a
 - new standard
 - revising existing standard
- To join a standards committee: contact the staff manager supporting the committee.
- To find out about new work being launched
 - ANSI's *Standards Action*

ANSI STANDARDS ACTION

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American National Standards

Call for comment on proposals listed

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section(s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ESCC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

Ordering instructions for "Call-for-Comment" Listings

1. Order from the organization indicated for the specific proposal.
2. Use the full identification in your order, including the BSR prefix, for example, Electric Fuses BSR/SAE J554.
3. Include remittance with all orders.
4. BSR proposals will not be available after the deadline of call for comment.

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. Fax: 212-640-2295; e-mail: psr@ansi.org

* Standard for consumer products

Address	City	State	Zip
P.O. Box 2109	Fletcher	NC	28732
E-Mail	Phone	Fax	
standards@aarst.org	913-780-2000	913-273-0134	

PINS Standard Action Request Form

Complete the form below for each Standards Action Request. Hit ADD REQUEST to add each additional standard to your submittal

Designation of Proposed Standard	Title of Standard
AARST MAH	Protocol for Conducting Radon and Radon Decay Product Measurements in Homes

Project Intent	Supersedes or Affects
Create new ANS	AARST MAH September 2005

Project Need	Identify ISO or IEC standard to be adopted
The USEPA published document Protocol for Radon and Radon Decay Product Measurements in Homes (EPA 402-R-92-003) has not been updated since May of 1993. Revisions for clarity and the inclusion of experience and technology progress since that time have been long needed. There is currently no other nationally recognized consensus process that has engaged this need.	

Identify Stakeholders	Includes text from ISO or IEC standard?
Includes state radon programs, national radon proficiency programs, consumers of radon measurement products and services, private radon testing and mitigation companies, reference facilities, instrumentation manufacturers and vendors, radon educators and universities, USEPA, and similar agencies and facilities internationally.	No

Scope summary
This standard specifies minimum requirements and general guidance for measurement of radon and radon decay product concentrations in homes. This standard addresses needs for citizens, radon service providers, real estate service providers, property owners, property managers, consultants, manufacturers and regulators concerned with radon measurements in homes.

Getting down to business

- First step: Define the scope of work
- Heavy lifting: Drafting cycles
- Balloting and Public Review
- Responding to comments, negative votes
- Consensus
- Publication

But, what's really going on around the table?

Brainstorming

Collaborative authoring

Competitive collaboration

Compromising

Consensus building

Data gathering/fact finding

Disagreeing

Editing

Environmental scanning

Information sharing/transfer

Modeling

Negotiation

Planning

Problem defining

Problem solving

Proposal developing

Requirements clarification

Requirements setting

Resolving conflicts

Socializing

Strategizing

Visioning

Writing

Getting your voice heard

- Collaborate - Build alliances with other committee members
- Bring the facts to the table
- Demonstrate your expertise
- Be persistent

Your responsibilities as a Committee member

- Show up – attend the meetings
- Do your homework – prepare
- Follow-through on assignments
- Contribute – share your viewpoints and expertise
- Share what's going on with your network in your Agency – they need to hear what you are doing and why

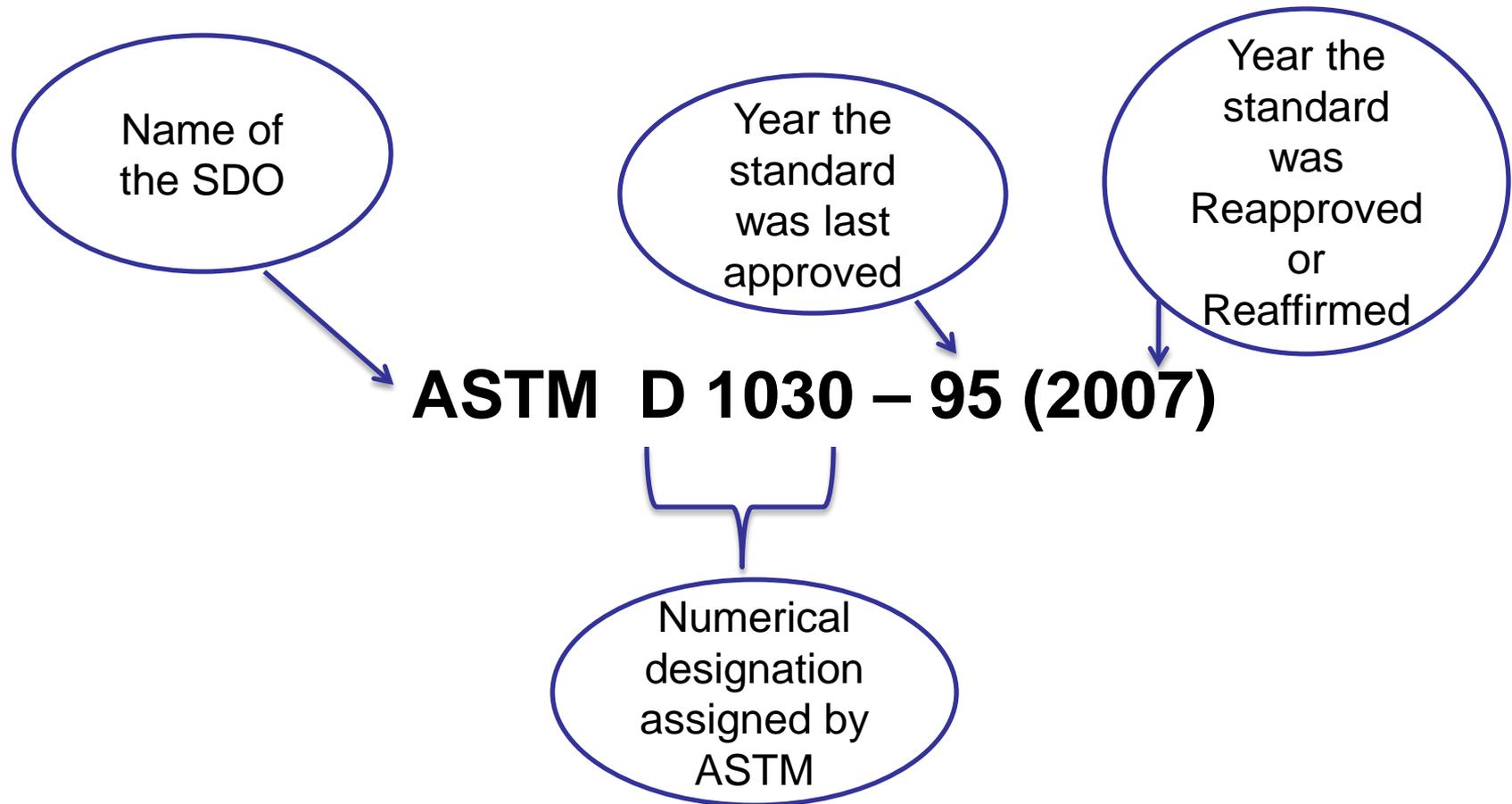
Selecting an SDO

Governance	Is it egalitarian or do a few big players dominate?
Finances	Financially sound? Is this group in the game for the long-term?
IPR policy	What is the IPR policy? Will it deter key players?
Reputation	Is this group well-respected?
Competition	Are there competing standards groups?
Membership	Are there potential allies/opponents?
Are the key players involved?	Are key players (potential adopters) missing?
Timing	How long does the development process take?
Process	What is the typical timeline for standards development? What is the required level of consensus? Ballot periods? Consensus requirements: can they be used to delay the process?
Disseminating the standard	Is free distribution possible?

Any special rules for feds?

- Agency Guidelines
- Participate fully, but do not dominate

What's in a Standard's Designation?



Life outside the Committee is as important as what goes on around the table



Myths about standards development

- You'll get to travel to exotic places and see the world
- It is boring
- Everyone is a happy camper

Standards developers are passionate

Mr. [REDACTED]

CC: [REDACTED] *Committee members*

Date: 3-18-2010

Dear [REDACTED]

I demand that you personally apologize to me and the [REDACTED] main Committee or anyone else that you sent the letter dated February 22nd, I have attached written proof from the individuals you have named and the secretary of the [REDACTED] Interpretation committee that proves all your false accusations and comment towards me and that I was unprofessional are without merit and deserve a written apology to me and whom ever you sent the letter. . . .

Remember . . .

- Federal government experts have an important role in standards development
- The USG is influential
- Access to expertise
- We may be the lone voice for the Public Interest

You have Resources to draw on

- NIST's Standards Coordination Office
- Standards Services Group
- Standards Information Center - NCSCI
- Standards.gov

Standards
development
is not for the
unprepared!



Review

- Standards development is not for the **unprepared**
- It's now up to you!
 - Know the process
 - Know the players
 - Be ready to contribute

Thank You

Standards Development: The View from the Inside

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