

NIST

Global Standards Information



Standards Development:
The View from the Inside

Benefits of being involved, for

NIST

You

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

Standards
development
is not for
sissies!



Standards are integrated into Regulation

10,000+ citations to standards in the Code of Federal Regulations,

500+ standards developers (SDOs), including:

ASTM International NFPA

AOAC International IMO

ASME API

SAE International American Nuclear Society

ISO Tea Association

Tire & Rim Assn. Almond Board of California

*

Standards Development is a Business

SDO	Scope	Standards	Technical Committees	Subcommittees/ Working Groups	Volunteer Members	Revenue
ASME	Codes and standards for all engineering disciplines	600+ Codes & Standards	100	700 committees	4,000	\$86 million (2009 annual report)
ASTM Intl.	Standards on characteristics and performance of materials, products, systems & services	12,000+ standards	140	1,800	30,000	\$47 million (2008 annual report)
ISO	Standards for all disciplines except electrotechnical and telecommunications	18,000+ standards	210	3238 technical bodies	161 member countries	\$30 million (2008 annual report)
SAE Intl.	Standards for the automotive, aerospace, and commercial-vehicle industries	9,000 standards & technical documents		700 committees	14,000 developing standards; 121,000 members	\$47 million (2009 annual report)
AOAC Intl.	Standards that promote methods validation and quality measurements in analytical sciences	3000+			800	\$7 million (2008 Form 990)

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 Standards Clusters

- A Ferrous Metals
- B Nonferrous Metals
- C Cementitious, Ceramic, Concrete and Masonry Materials
- D Miscellaneous Subjects
- E Miscellaneous Materials
- F Materials for Specific Applications
- G Corrosion, Deterioration and Degradation of Materials

ASTM International Organization Chart

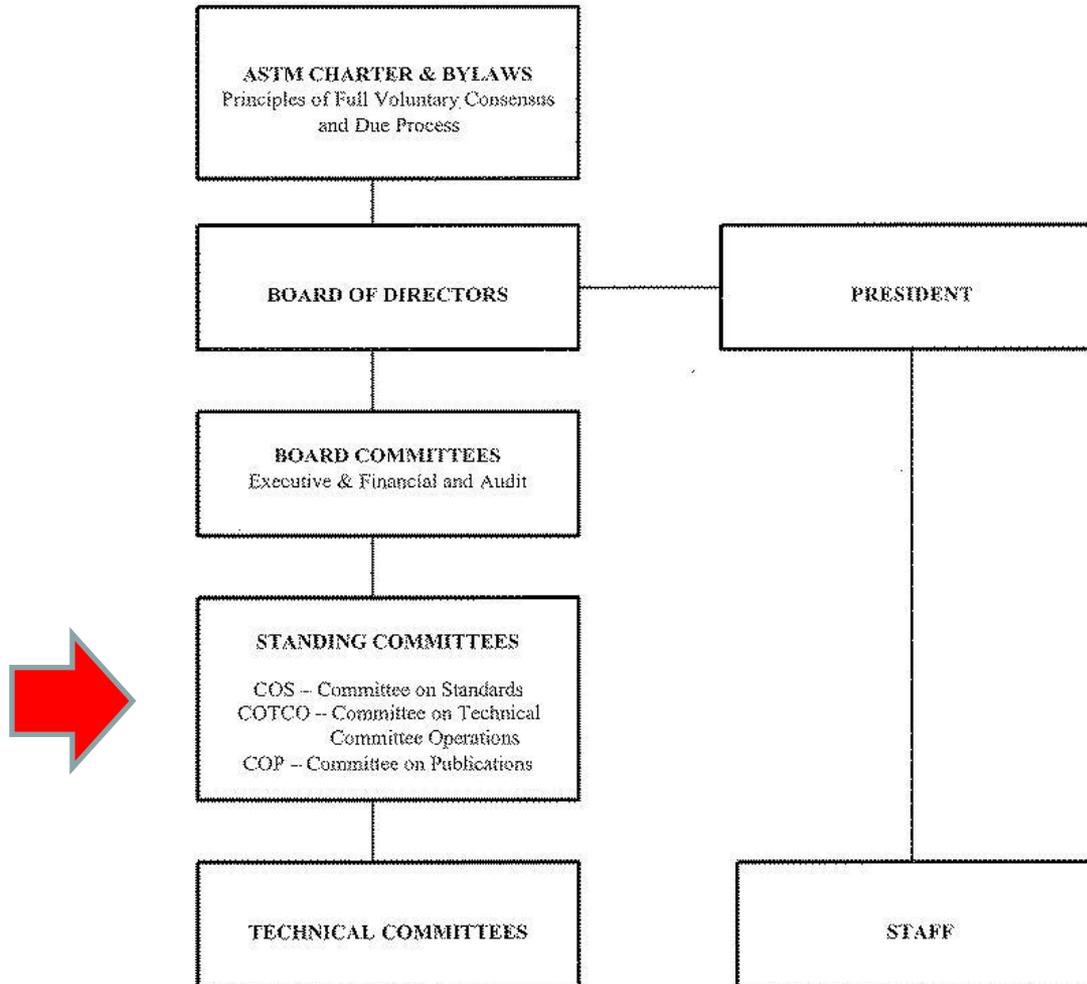


FIGURE 1. ASTM Organizational Structure

ASTM's Committee **E54 on Homeland Security Applications**

[E54.01](#) CBRNE Sensors and Detectors

[E54.02](#) Emergency Preparedness, Training, and Procedures

[E54.03](#) Decontamination

[E54.04](#) Personal Protective Equipment (PPE)

[E54.05](#) Building and Infrastructure Protection

[E54.06](#) Electronic Security Systems

[E54.08](#) Operational Equipment

[E54.90](#) Executive

[E54.92](#) Terminology

[E54.93](#) Awards

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
- 

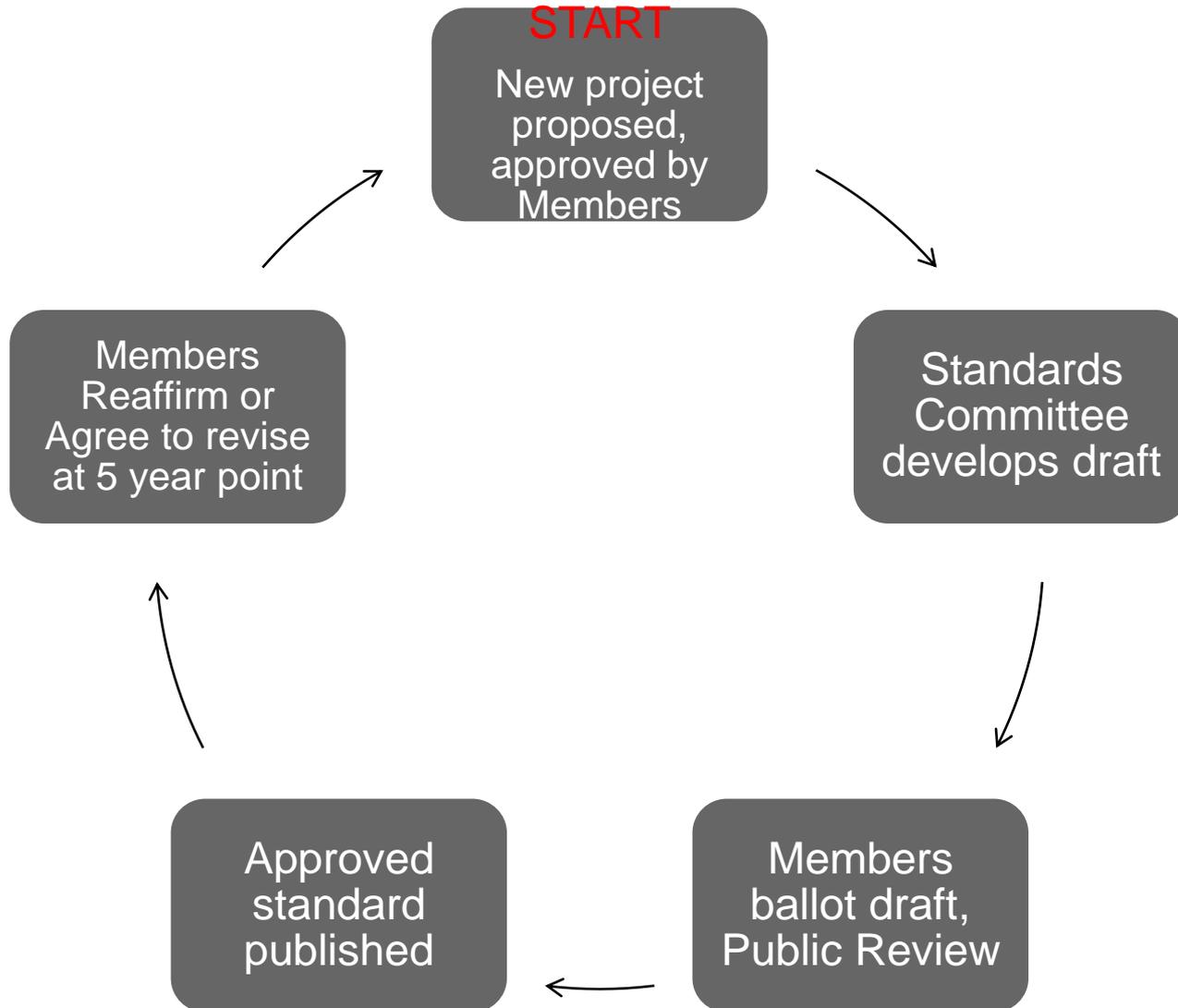
Basic Tools that Support the Process

- 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.

Committee Leadership

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

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

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American National Standards

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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 (EXSC) 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/US AE 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: 212-840-2298; e-mail: psa@ansi.org

Getting down to business

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

What is “Consensus”?

- ANSI Essential Requirements
 - a majority of the consensus body cast a vote (counting abstentions) and at least two-thirds of those voting approve (not counting abstentions).
- SDOs may propose an alternate methodology for determining consensus

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

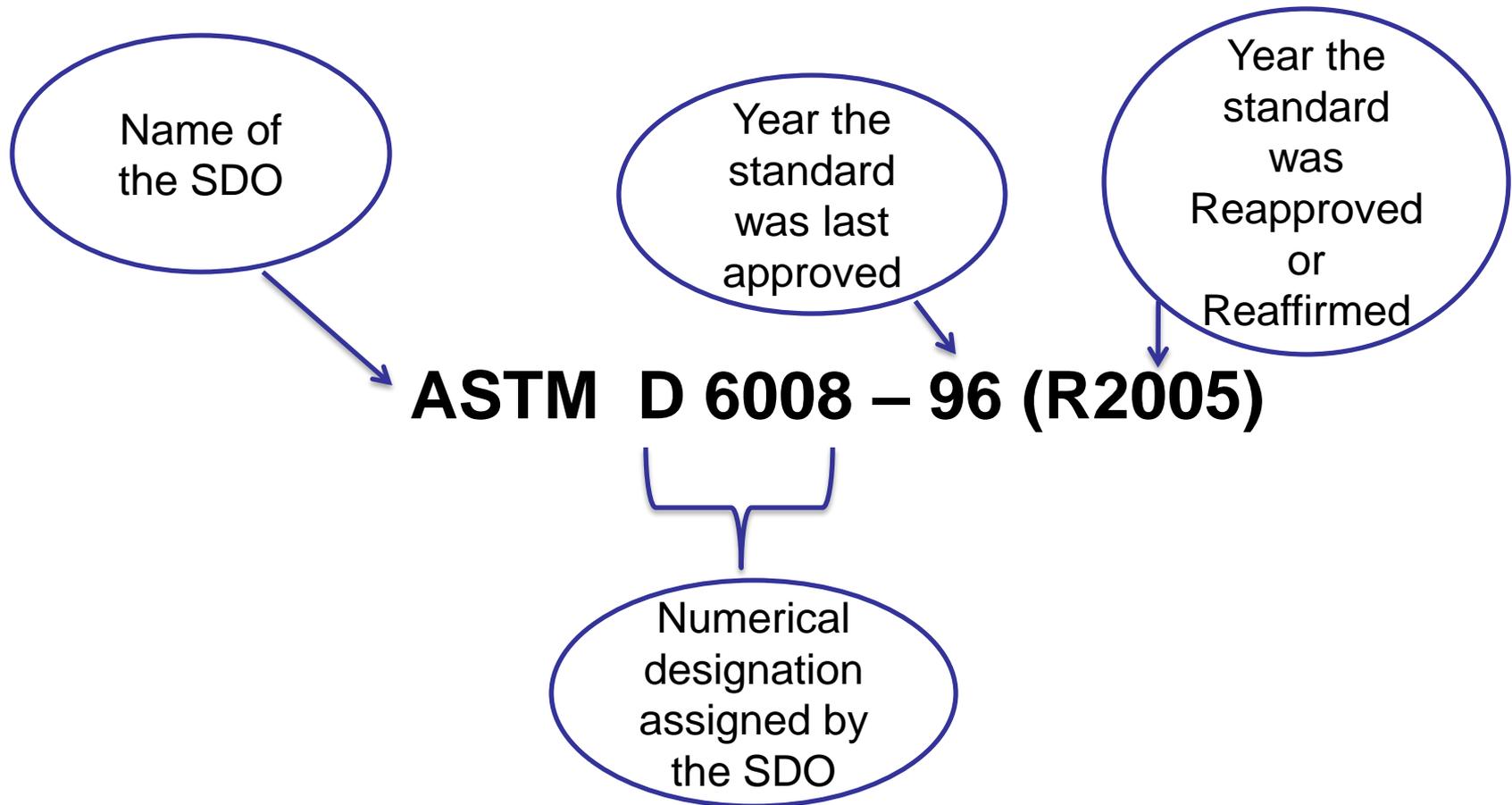
Socializing

Strategizing

Visioning

Writing

What's in a Standard's Designation?



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 back home

Any special rules?

- Members of standards committee's participate as technical experts
- Agency participation does not equal agency agreement or endorsement of the standard
- Participate fully, but do not dominate
- Guidelines for NIST Staff Participating in voluntary Standards Developing Organizations' Activities

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

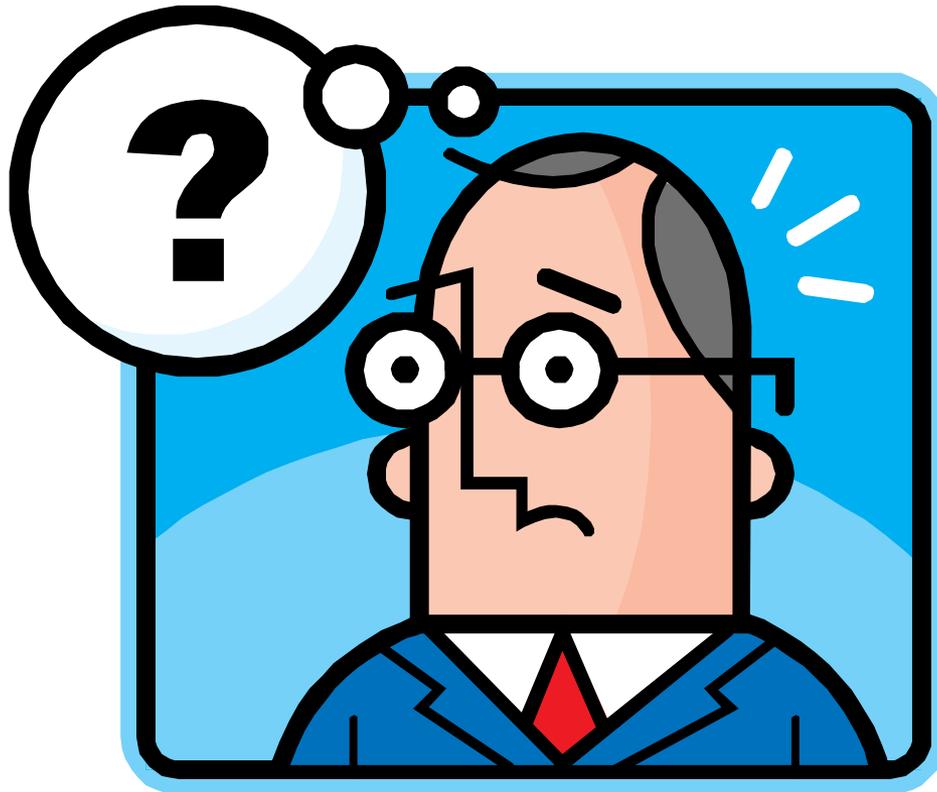
Dear [REDACTED]

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. . . .

Don't be discouraged . . .

When the NIST performs research and standards committees create standards based on that research, the result is a partnership that efficiently transfers technology from the drawing board to industry.

Help is available!



Resources to draw on

- NIST's Standards Services Division
- Standards Information Center - NCSCI
- [Standards.gov](http://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: A View from the Inside

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