

# NIST

Global Standards Information



## Standards Development: *A View from the Inside*

# Benefits of being involved, for

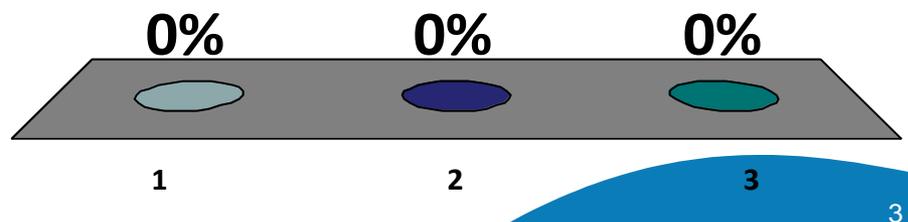
NIST

You

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

How many of you are now on a standards committee?

1. Yes
2. No
3. I may do this in the future



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                      IAPMO
  - ASME    API
  - SAE International                      American Nuclear Society
  - ISO    Tea Association
  - Tire & Rim Assn.                      Almond Board of California

SDO	Scope	Standards Output	Technical Committees	Subcomm/ Working Groups	Volunteer Members	Standrds Sales Revenue
<b>IEEE</b>	Electrical and computer sciences, engineering and related disciplines.	900 Standards, 577 in development	100	700 committees	407,541 members 20,000 in standards development	\$25.3 million (2010 annual report)
<b>ASTM Interntl.</b>	Characteristics and performance of materials, products, systems & services	12,160 standards	142	1,905	32,000	\$35 million (2010 annual report)
<b>ISO</b>	All disciplines except electrotechnical and telecommunications	18,536 standards 1757 new projects	214 TCs	2988 SCs and WGs	163 member countries	\$30 million (2010 annual report), 47% of total Revenue

# Increasingly, standards committees are populated by an international family of experts

## IEEE SA

- 50% of corporate members are from non-US headquartered organizations  
29% of personal members are from outside the US
- 29 MOUs in place outside the US
- 132 adoptions and translations of IEEE standards

## ASTM

- ASTM Regulations translated into Arabic, Chinese, Korean, Spanish
- 74 MOUs in place, 140 countries represented
- There are more than 6590 citations to ASTM standards used in 71 countries.
- “Participation in ASTM International is open to all with a material interest, anywhere in the world.”

## Standards Volunteer Study:

- 10% of the respondents lived outside the US.

# 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 International Organization Chart

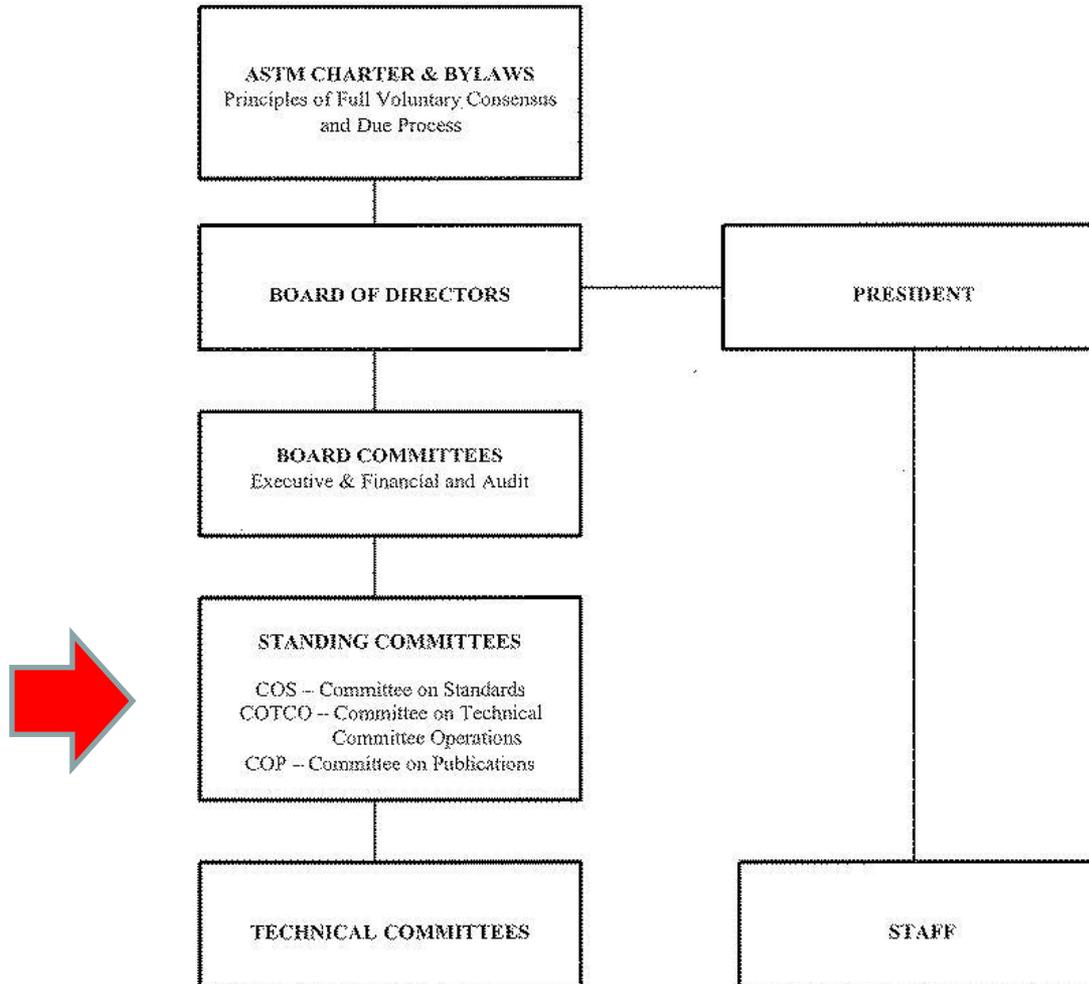


FIGURE 1. ASTM Organizational Structure

# ASTM Technical Committees

- A. Ferrous metals
- B. Nonferrous metals
- C. Cementitious, ceramic, concrete and masonry materials
- D. Miscellaneous materials
- E. Miscellaneous subjects
- F. Materials for specific applications
- G. Corrosion, deterioration, and degradation of materials

# 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

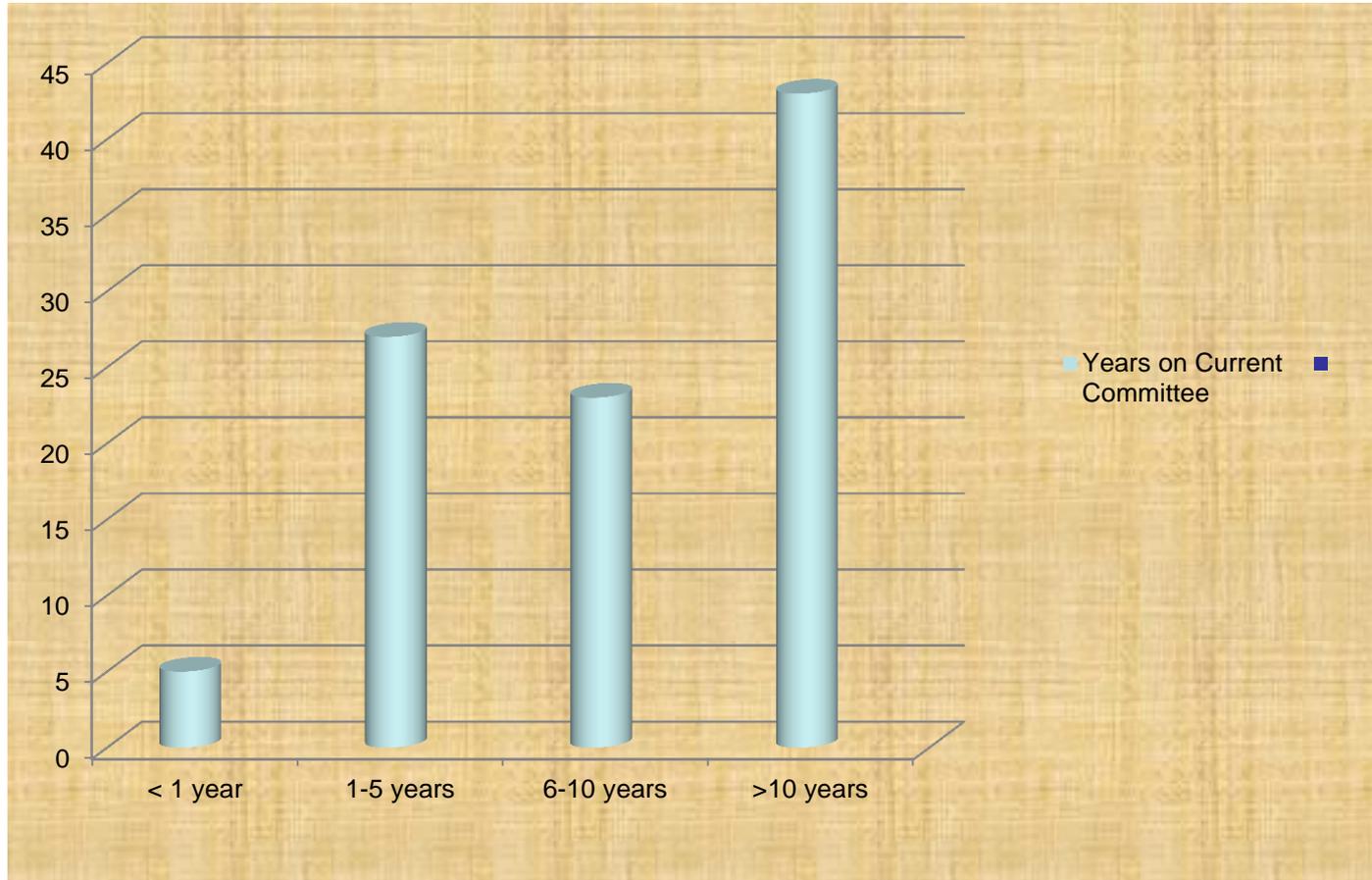
[D14.91](#) Long Range Planning

[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, is located in the bottom right corner of the slide.

# Standards development is a long-term commitment



# Who Develops Standards?

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

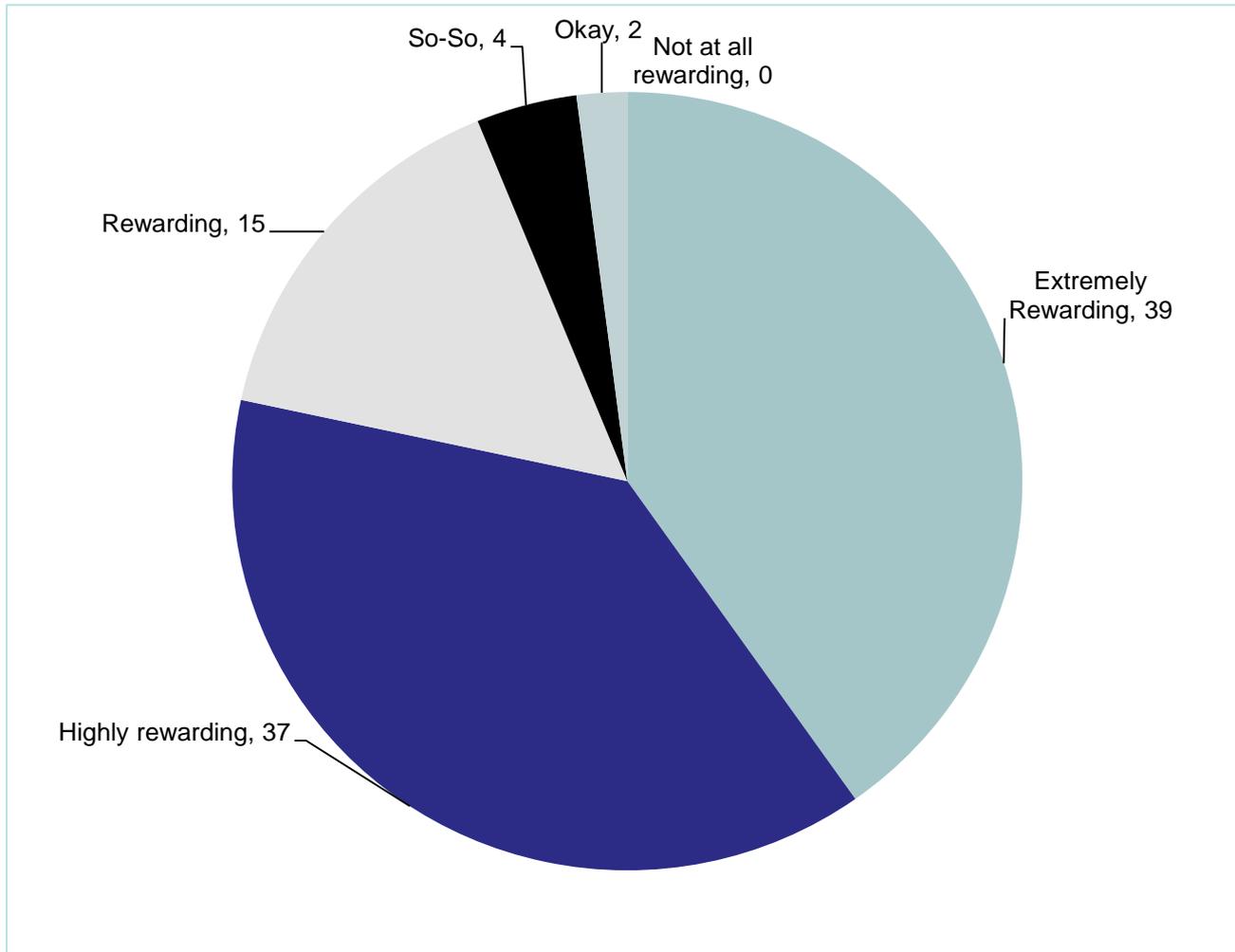
Retailers

Retirees

**Scientists**

Suppliers

# 76% of standards developers really like what they do



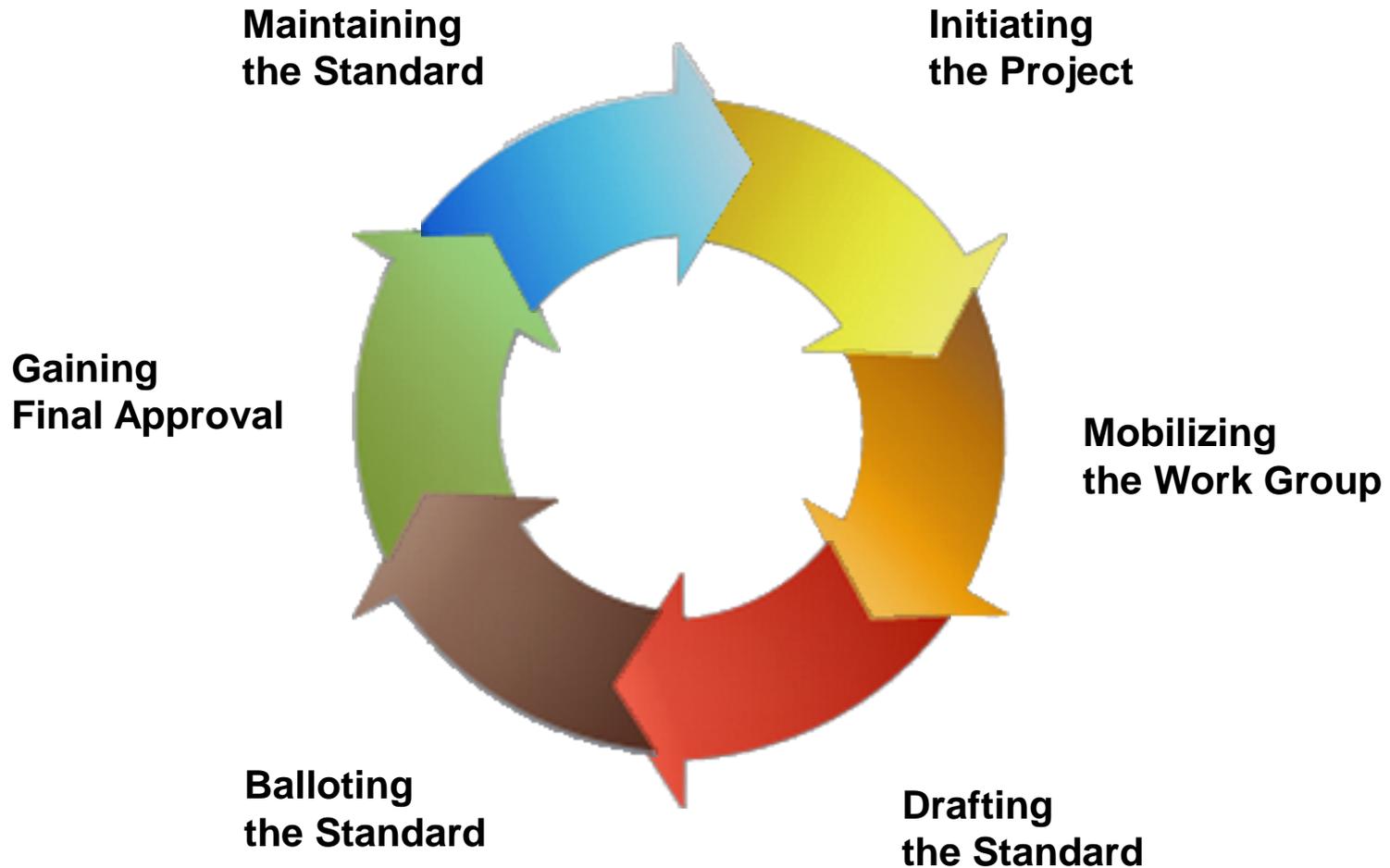
# Basic Tools that Support the Process

- Operating procedures
- Style manual
- The work and communications will be largely online
  - 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

# **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 (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/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: 212-840-2298; e-mail: psa@ansi.org

\* Standard for consumer products

Date: 7/21/2011

First Name	Last Name	Organization	Developer Acronym	
Valerie	Smothers	MedBiquitous	MEDBIQ	
Address		City	State	Zip
5801 Smith Avenue, Davis 3110C		Baltimore	MD	21209
E-Mail		Phone	Fax	
vsmothers@jhmi.edu		410-735-6142	410-735-4660	

#### 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
ANSI /MEDBIQ PF.10.1-201x	Performance Framework

Project Intent	Supersedes or Affects
Create new ANS	

Project Need	Identify ISO or IEC standard to be adopted
--------------	--

The use of performance frameworks is a growing part of healthcare education and assessment. Currently, there is no standard way to represent levels of performance, and therefore no easy way to connect assessment to performance and competencies.

Identify Stakeholders	Includes text from ISO or IEC standard?
-----------------------	---

Medical schools, health professions schools, hospitals, certifying boards, licensing boards, government agencies, professional associations, continuing education providers, information technology vendors, accreditation organizations, healthcare professionals. No

#### Scope summary

Performance Framework leverages the Healthcare Learning Object Metadata and references competency definitions. It contains metadata about the framework as well as definitions of performance levels, relationships of performance levels to one another on a continuum, and relationships of performance levels to competency objects.

Consumer Product	Unit of Measure	Revised a previous PINS submittal?
yes	Not applicable	no

#### Notes

Request an Announcement in Standards Action to Solicit New Consensus Body Members

No

# 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

# 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

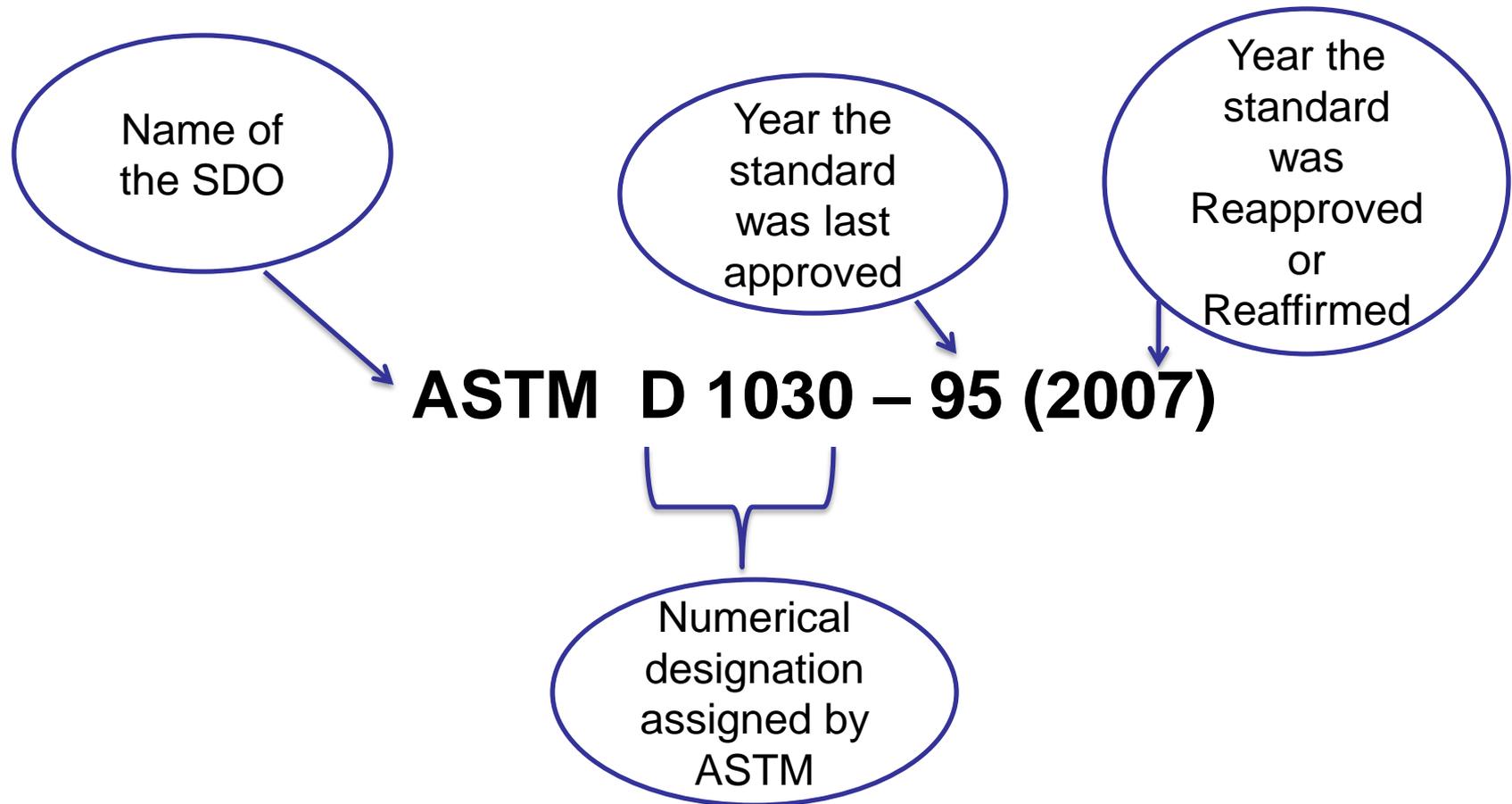
Visioning

Writing

# Negotiation

- Approach negotiation like CSI approaches a crime scene
  - Take an investigative approach
  - Ask “WHY”?
  - Challenge assumptions . . . . nicely
  - Introduce facts
  - Never “assume”

# 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

# Getting your voice heard . . . .

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

# Selecting an SDO

<b>Governance</b>	Is it egalitarian or do a few big players dominate?
<b>Finances</b>	Financially sound? Is this group in the game for the long-term?
<b>IPR policy</b>	What is the IPR policy? Will it deter key players?
<b>Reputation</b>	Is this group well-respected?
<b>Competition</b>	Are there competing standards groups?
<b>Membership</b>	Are there potential allies/opponents?
<b>Are the key players involved?</b>	Are key players (potential adopters) missing?
<b>Timing</b>	How long does the development process take?
<b>Process</b>	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?
<b>Disseminating the standard</b>	Is free distribution possible? Is this important to your community?

# Any special rules for feds?

- NIST Guidelines
- Participate fully, but do not dominate

# 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

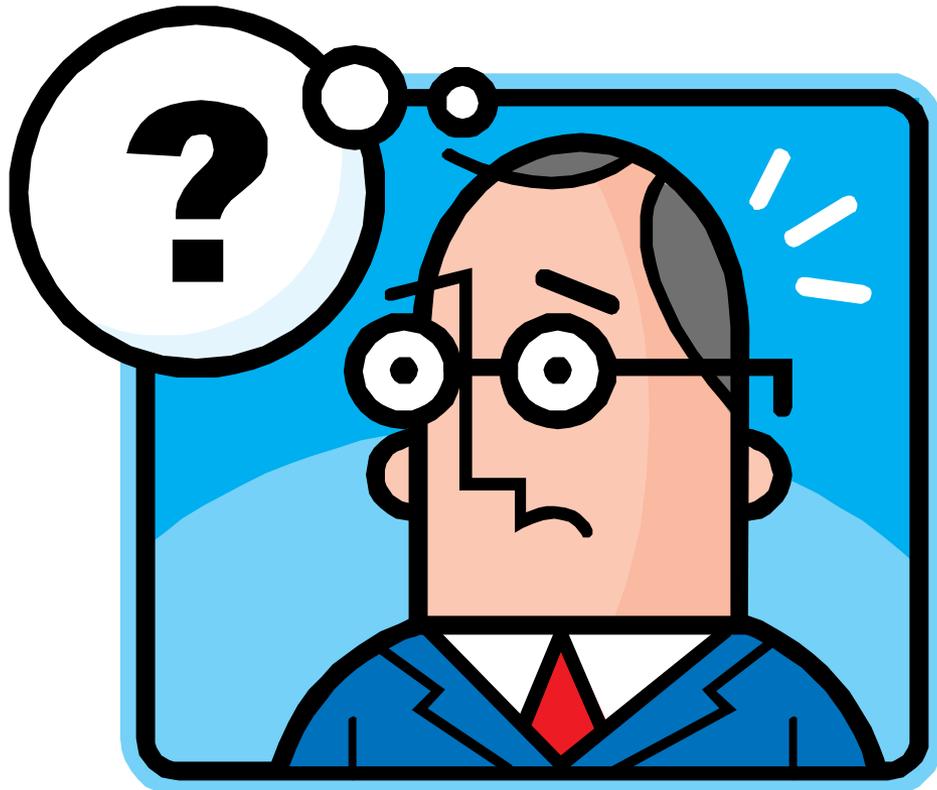
Dear [REDACTED]

*I demand that you personally apologize to me and the [REDACTED] main Committee or anyone else that you sent the letter dated February 22<sup>nd</sup>, 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 a big consumer and can shape markets
- Expertise
- We may be the lone voice for the Public Interest

Help is available!



# You have Resources to draw on . . . .

- NIST's Standards Coordination Office
- Standards Services Group
- Standards Information Center
- [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

## Resources cited

**Tomorrow's Codes and Standards Volunteer: A Study of Future Participants in Codes and Standards Development.** October 2010.  
A report prepared for the Fire Protection Research Foundation.  
<http://www.nfpa.org/foundation>. 75 pages.

**“Investigative Negotiation”** by Deepak Malhotra, et al. Harvard Business Review, September 2002, p. 73-78.

Thank You

## Standards Development: A View from the Inside

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