

NIST

Standards Coordination Office



Standards Development: *The View from the Inside*

Pat Harris
May 9, 2013

Benefits of being involved, for

Your agency

You

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

Standards
development
is not for
sissies!



Today's Discussion

- Standards landscape
- Life on a standards committee
- Process
- How to select an SDO

U.S. Standards Landscape

- Diverse, but strikingly similar



Standards is big 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	\$62 million (2011 annual report)
ASTM Intl.	Characteristics and performance of materials, products, systems & services	12,400+ standards	142	3325 technical bodies	34,602	\$55 million (2011 annual report)
ISO	All disciplines except electrotechnical and telecommunications	19,573 standards	224	3368 technical bodies	164 member countries	\$40 million (2012 ISO in Figures)
SAE Intl.	Automotive, aerospace, and commercial-vehicle industries	9,000 standards & technical documents	700		133,000 members in 112 nations 14,000 developing standards	\$55 million (2011 annual report)
IEEE	Electrical and computer sciences, engineering and related disciplines	900+ standards, 577 in development	100	700 committees	407,541 members, 20,000 in standards development	\$383 million (2011 Annual report)

Standards Development Culture

- Technically oriented social activity
- Diverse interests are represented
- Open
- Voluntary
- Long-term commitment – often spanning three to five years

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

The standards development process brings to life these key principles

Openness

All stakeholders may participate; no single interest may dominate

Transparency

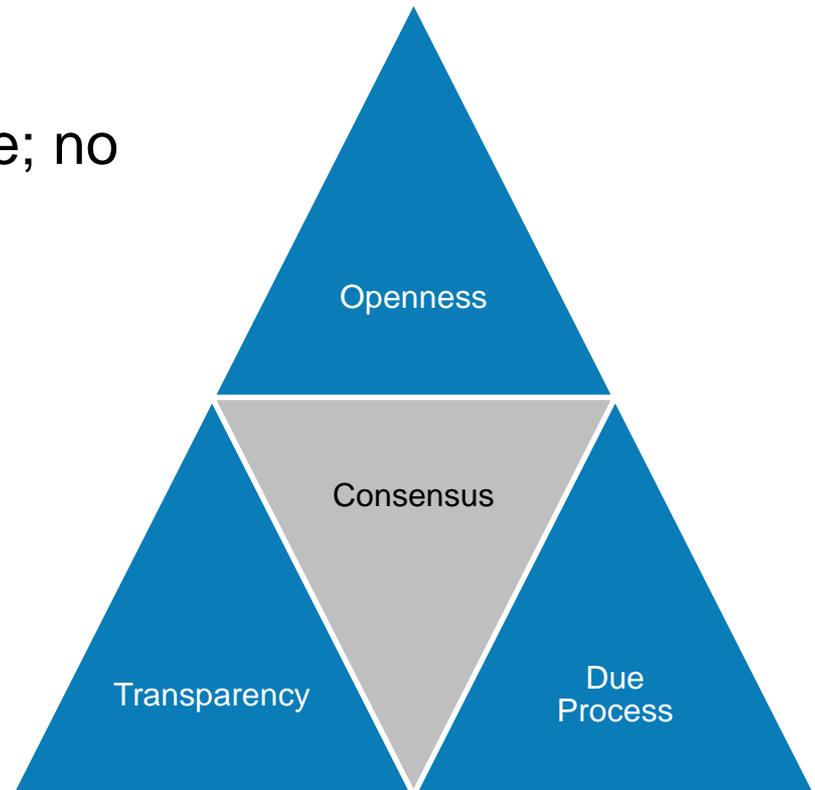
Records/ processes open and publicly available

Due Process

Appeals mechanism

Consensus

Decisions more than majority but not unanimity



Process is well-structured

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

Committee structure

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

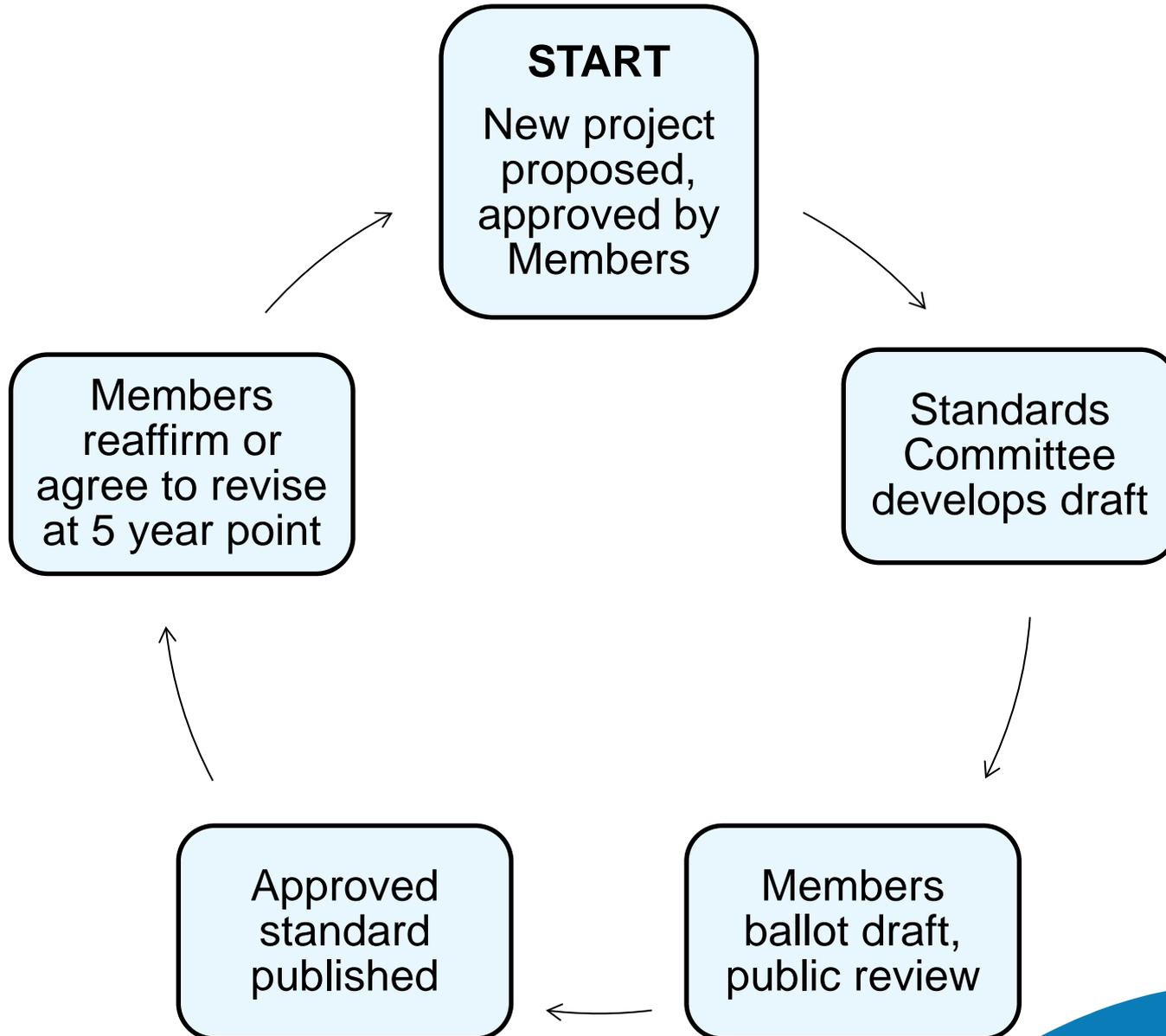
[D14.91](#) Long Range Planning

[D14.99](#) ISO Activities

The people behind the process: 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

ANSI - WEB PINS FORM

<< PREVIOUS REQUEST

PRINT REQUEST

FINISH

NOTE: A record of this submittal must be retained as documentation

ANSI - WEB PINS FORM : STANDARDS ACTION F

*NOTE: Adoptions of ISO or IEC standards require compliance with ANSI

Accredited Standards Developer Inform

First Name	Last Name	Organization
Edward	Wirtschoreck	International Code C
Address	City	
4051 West Flossmoor Road	Country Club Hills	
E-Mail	Phone	
ewirtschoreck@iccsafe.org	708 799-2300	
PINS Standard Action Request Form		
Complete the form below for each Standards Action Request. Hit ADD REQUEST to add each a		
Designation of Proposed Standard	Title of Standard	

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

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

Getting your voice heard

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

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

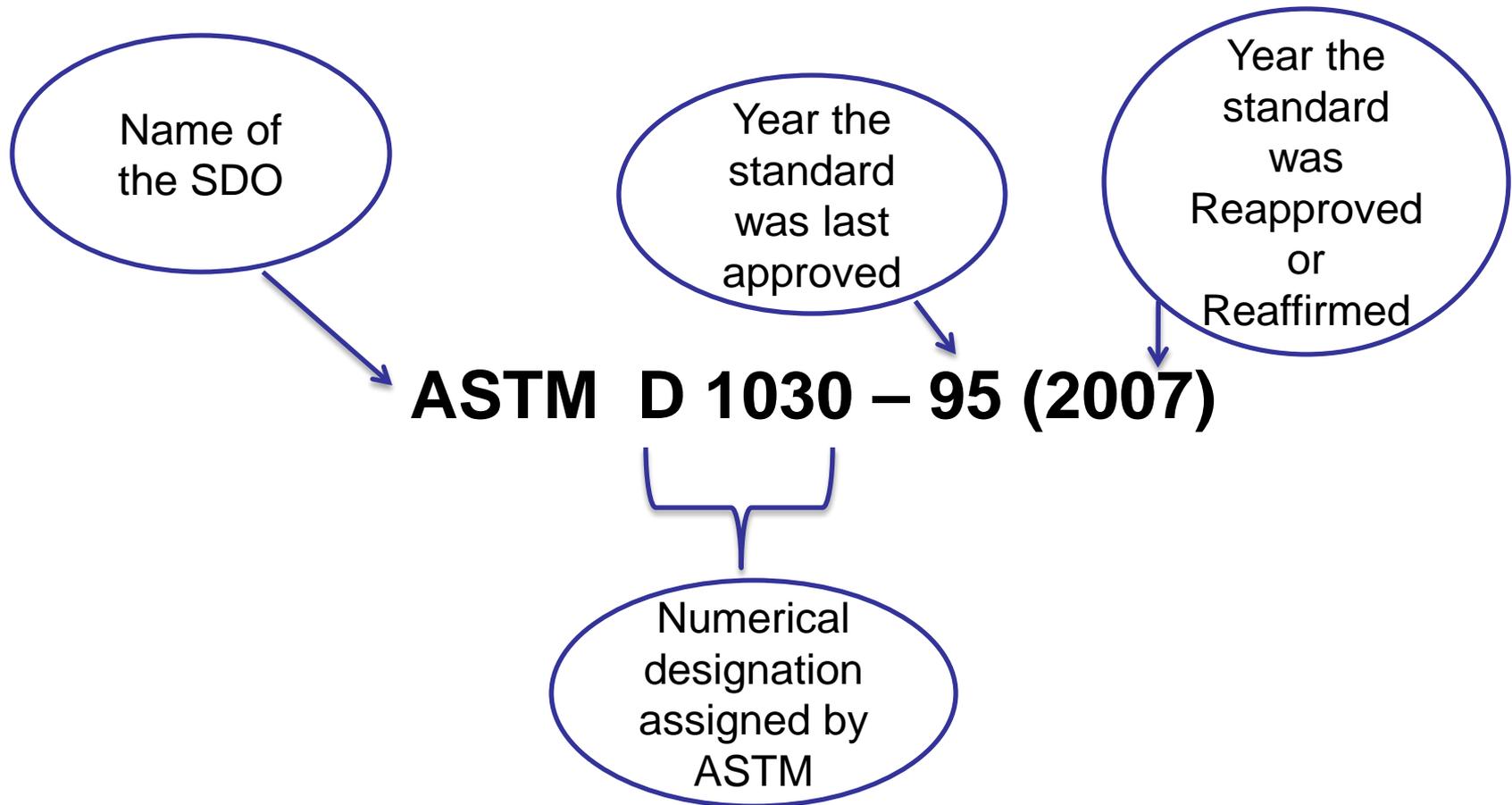
Selecting an SDO

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 are the rules? 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? Is this important to you?

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 and dull
- 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
- Your expertise matter
- We may be the lone voice for the Public Interest

When Standards Development is in your future you have resources to draw on. . . .

- NIST's
 - Standards Coordination Office
 - Standards Services
 - 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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