



From robotics to smart devices to myriad aspects of the burgeoning Internet of Things, innovative electrotechnologies grab headlines around the world. And the IEC keeps pace with these rapid developments with continual analysis and adaptation of its methods and activities to provide the strongest international standards and conformance solutions.

## FOCUS ON: HOT TOPICS

### Industry 4.0 Is for Self-Organization – But Needs Semantic Standardization

By Thomas Sentko, Standardization Manager, VDE, and SMB Member and Ingo Rolle, Standardization Manager, VDE

Imagine: A work piece passes by; a robot confirms the position. The work piece informs the robot about the holes it wishes to have drilled. The robot takes action, and when the work is done, the work piece travels on to the next station, again explaining its needs. The work piece by itself is intelligent, because a microprocessor dwells somewhere inside. It belongs to the things we have in mind when talking about the future Internet of Things (IoT).

Imagine: Christmas is coming; a parcel is brought to the post office. All the information about its recipient and the customs and tariff information, are included in a code on a small label. The code is created by the sender at home, and with this information he is able to track the shipment to the addressee. All the decisions about means of transport, direction, and the delivery date are made by the transport chain itself.

These are two examples of service-

oriented automation, enabled by a technology that makes things in our environment intelligent. They show what Industry 4.0 is about: We use intelligent manufacturing, transport, and engineering to ease production, and to make it flexible enough to produce in very small lot sizes.

#### What's Happening in Standardization?

Lots of standards-related work has already been done, but to succeed in the vision of Industry 4.0, it is time to set a reference architecture and to define interfaces. Reference Architecture Model Industry 4.0 (RAMI40) is a model developed by a German Industry Platform consisting of ZVEI, VDMA, and BITKOM. It is widely accepted in the IEC Standardization Management Board (SMB) Strategic Group (SG) on Smart Manufacturing, and

is based on use cases collected in the automotive and production industry. To complete the functionality, the words that are spoken by the products need to be defined – the semantics.

To ease the understanding, let's look at another example: Flowmeters are widely used in any kind of industrial process. The meter has a lot of data associated with it, such as the tag number, dimensions, design data, records of operation, and also the service manual. Let us assume that this information is all put together to become the "data mirror" of the real device. We call this "administration shell," and together with the device it is the "Industry 4.0" component. All administration shells, *(continued)*



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IEC symbols for electrical current:



ALTERNATING CURRENT (AC)



DIRECT CURRENT (DC)



AC/DC

## Industry 4.0 Is for Self-Organization – But Needs Semantic Standardization *(continued)*

together, constitute the layer of data storages. And above that is the layer of services, since the entities in this layer communicate via services. Therefore, all the data has to be in the same format, and the accessibility has to be guaranteed. The semantic and the data format is also defined in standards. In our example, the flow meter is reporting a failure. The maintenance management program receives this information and decides on the actions needed and the priority of actions these actions. It is not important whether this program will work completely automatically or in support of a human decision. All the values delivered by the different meters and devices give the picture about the production and its performance.

### Current Activities

Coming back to standardization, the common data dictionary (CDD) format is already standardized in the IEC 61987

series of industrial-process measurement and control standards. The CDD is drawn up according to the data model of IEC 61360, *Standard data element types with associated classification scheme for electric components*, and contains the provisions of IEC 61360-4, *IEC reference collection of standard data element types and component classes*; IEC 61987, *Industrial-process measurement and control – data structures and elements in process equipment catalogues*; and IEC 62683, *Low-voltage switchgear and controlgear - Product data and properties for information exchange*. As of now the solution to the semantics problem is not completed, but this is an important step in the right direction.

### Future Objectives

What is the content of this standard that in future will only be available via the



THOMAS SENTKO



INGO ROLLE

web? At present, it contains properties of devices – for example, of this flowmeter. That huge amount of data is organized as lists of properties. This contains definitions and classifications (of, e.g., flowmeters), and it will be possible to include URLs to manuals.

This is an important step towards standardized semantics taken by IEC, and therefore the CDD with IEC 61987 supports Industry 4.0 in a core issue. The

CDD has been built to support plant engineering. But we think it could also do a good job of assisting in the introduction of semantic technics. Thus, its aim is extended now.

In the discussion about the standardization of semantics, a few other terms are coming up in the community now. For instance, we often here the buzz-word “ontology,” which means the description of relations among the things. The advantage we have with the CDD is, that we have more than just relations – we have absolute definitions. We are defining, for example, what a flow-meter is. And we think that absolute definitions will be necessary in the vast landscape of future Industry 4.0 applications. ☺

### VDE, GERMANY'S ASSOCIATION FOR ELECTRICAL, ELECTRONIC & INFORMATION TECHNOLOGIES



VDE, the Association for Electrical, Electronic & Information Technologies, is one of the largest technical and scientific associations in Europe with more than 36,000 members. The VDE is represented throughout Germany on a regional basis by 29 regional societies, and is headquartered in Frankfurt am Main.

The responsibilities of the VDE include:

- the ongoing development of electrotechnology, electronics, and information technology, and their related technologies;
- supporting the use of electrotechnology and electronics in mechanical engineering, in manufacturing and process automation, transport and medical technology, etc ;
- the promotion of national and international transfers of technical knowledge;
- continuing education and career development supported by a varied program of congresses, technical symposia and seminars;
- participation in political decision-making in matters regarding education and research; and
- the interdisciplinary promotion of scientific knowledge and training. DKE, is the German organisation responsible for the elaboration of standards and safety specifications in the areas of electrical engineering, electronics and information technologies.

## The Age of Wearable Smart Devices Personal Emergency Response Systems – Promoting Safety & Independence

By Neil Lakomiak, Business Development Director, Building & Life Safety Technologies, UL

It's an exciting time to be alive! Advancements in technology are allowing the aging population to live and remain independent longer. And personal emergency response systems (PERS) are a key area of innovation. Often thought of as those systems incorporating panic button pendants that summon help in the event of a fall, for example, personal emergency response systems have a growing number of sophisticated functions and features. Geotracking, mobile capability, and medication monitoring are but a few advancements giving the user and their loved ones greater peace of mind. And in particular, the emergence of mobile PERS (mPERS) offers the user a similar level of safety as a traditional home-based systems, with the added benefit of enabling independence outside the home. A newly formed UL standards technical panel (STP) 1698 will be working to establish a set of safety, performance, and reliability requirements for mPERS. It is expected that the future standard will complement the standard for home-based systems, UL 1637, *Home Healthcare Equipment*. With the myriad of products and systems available and on the horizon for PERS and mPERS devices and systems, these standards are essential for growth and innovation.

The monitoring options for PERS are also evolving. It is commonplace for a PERS system to be professionally monitored, where a central monitoring station receives the signals to be acted upon by trained personnel. But self-monitoring is

an emerging option, where the loved ones of the user are notified of an emergency or may be simply receiving updates as to the user's activities. In the future, PERS functions may be incorporated in a smart home system and integrated into telemedicine/telehealth technologies. While there are tradeoffs for both of these monitoring options, innovation is enabling more choices to suit differing needs. Monitoring services and features too could benefit from standardization in that the user or purchase



decision maker would be able to compare based on performance requirements of a central station service provider. ☹

### SMB STRATEGIC GROUP 10 ON WEARABLE SMART DEVICES BEGINS!



By Jesse Stephen Jur, Assistant Professor, Department of Textile Engineering, Chemistry & Science, North Carolina State University

The rapid growth of wearable device technologies is evident in the number of products that have recently entered the market, primarily for the purpose of fitness tracking. A primary challenge to this industry is the lifetime of use (i.e., people stop using or wearing them after a period of time). Solutions to this issue may be found in the inclusion of more relevant sensors and individualization of the wearable into form factors in which the user is unaffected by its presence. As with most product development, these strategies are dependent on standard development.

Currently, standards specific to wearable technologies are immature, in part due to difficult criteria related to electronics and the human body. For example, many relevant sensors in development require intimate contact

with skin. Biocompatibility and flexible packaging must be considered alongside electronics reliability in the development of a wearable device.

An interesting evolution in wearable devices is the embedding of electronics into garments or clothing, improving the individualization and reducing the hassle of the devices (you just put on your shirt like every other day). Garment devices present a clash of two steadfast industries: electronic devices and textiles. While the business strategies for these industries are similar in many ways, key differences relate to their individual product goals. Specifically, electronics aim for functional performance, whereas textiles aim for comfort performance. There is little doubt that standards will assist in the conversation and development of a unified direction for these truly wearable devices.

To address this, the IEC Standardization Management Board (SMB) has formed a new Strategic Group on Wearable Smart Devices (SG 10). The group's aim is to horizontally evaluate the existing standards and identify gaps within this space. The kickoff meeting will take place November 3-4 in Seoul, South Korea.

## Standards Alliance Offers USNC Members Engagement Opportunities Around the World

By Madeleine McDougall, Program Manager, International Development, ANSI

The Standards Alliance, a public-private partnership between the American National Standards Institute (ANSI) and the U.S. Agency for International Development (USAID) recently entered its third year. The program is a funding facility that provides technical assistance to developing countries, specifically related to implementation of the World Trade Organization (WTO) Technical Barrier to Trade (TBT) Agreement.

In the first two years of the program, ANSI organized 16 workshops in 12 countries, chronicled in the [Year 1](#) and [Year 2](#) annual reports. Recent examples include:

- EAC Workshop on TBT Notifications and Public Consultation (Tanzania, August 2014)
- Training for Peruvian regulators on analytical tools for rulemaking (Peru, October 2014)
- Training on conformity assessment for COPANT member countries (Mexico, November 2014)
- North American Conference on Good Regulatory Practices (Mexico, December 2014)
- Conference on Food Additives: A Global Perspective on Safety Evaluation and Use (El Salvador, January 2015)



- Training on effective ISO participation for Lesotho, Malawi and Zambia (Lesotho, April 2015)
- Workshop on U.S. Automotive Standards and Technical Regulations conducted with ASEAN countries on the sidelines of APEC Automotive Dialogue (Philippines, April 2015)
- U.S.-SADC Exchange on Good Regulatory Practices (South Africa, June 2015)

The success of the Standards Alliance is due in large part to the involvement of the U.S. standardization community. At least 20 different ANSI members, including standards developers, conformity assessment bodies, government agencies, trade associations, and individual companies, were responsible for driving the content and results of the above activities. Key outcomes included:

- Publication of a Uniform Plumbing Code specific to Indonesia (UPC-ID)

through an open, consensus process (March 2015)

- A 28% increase in ISO participation, and at least one new P-member “twinning” arrangement
- Nine new MOUs between Standards Alliance countries and U.S.-based standards developing organizations
- An increase in WTO TBT notifications across several Standards Alliance countries
- Effective facilitation of U.S. TBT specific trade concerns through Standards Alliance events

As the Standards Alliance continues to gain speed in year three, ANSI encourages USNC members to take advantage of the opportunities to engage emerging markets and advance their business and policy interests. To facilitate involvement, ANSI has just issued a call for Standards Alliance proposals, which may come from ANSI members or other private-sector organizations interested in supporting cooperation and capacity building in the areas of standards development, technical regulations, good regulatory practice, and conformity assessment.

Interested organizations are invited to download the [background document and template proposal here](#), which

includes information about selection criteria and the timeline for review of proposals. The first stage in the process will be to submit a 1-2 page concept paper to [standardsalliance@ansi.org](mailto:standardsalliance@ansi.org) by November 30. Selected activities will be included in the relevant work plans for 2016 or later.

For more information, please see <http://standardsalliance.ansi.org> or contact Leslie McDermott, ANSI senior manager of international development, at [standardsalliance@ansi.org](mailto:standardsalliance@ansi.org). ☺



Participants at the North American Conference on Good Regulatory Practices in Mexico

### ACOS and IEC Advisory Committees – Weaving the Latticework of Standards

By Mark W. Earley, P.E., Chief Electrical Engineer, National Fire Protection Association (NFPA)

IEC standards are a latticework of documents that address all aspects of electrotechnology. How can consistency be maintained in a system made up of numerous standards written by over 100 Technical Committees (TCs) from diverse backgrounds from over 50 countries around the globe? The main coordinating body is the Standards Management Board (SMB). However, SMB relies on seven advisory committees to “advise, guide, and coordinate IEC technical work.” Those advisory committees are:

<b>ACART</b>	Advisory Committee on Applications of Robot Technology
<b>ACEA</b>	Advisory Committee on Environmental Aspects
<b>ACEC</b>	Advisory Committee on Electromagnetic Compatibility
<b>ACEE</b>	Advisory Committee on Energy Efficiency
<b>ACOS</b>	Advisory Committee on Safety
<b>ACSEC</b>	Advisory Committee on Security
<b>ACTAD</b>	Advisory Committee on Electricity Transmission and Distribution

Typically, an advisory committee will make their request to SMB, which will review the recommendation and, if approved, will forward it to the affected TC for action. If SMB does not agree, they will respond back to the advisory committee.

#### Spotlight on ACOS

ACOS is the clearing house for all electrotechnical safety matters. An issue will usually gain the attention of ACOS because it involves a number of

committees. Since their role is only to advise, guide, and coordinate, the actual technical work must be handled by Technical Committees. What ACOS must recommend is which TC or Subcommittee (SC) is the most appropriated place for the standards development work to take place and whether the work should be a horizontal safety function or a group safety function.

#### Horizontal vs. Group Documents

A horizontal safety function is assigned to the most suitable Technical Committee, which will prepare one or more basic safety publications that cover all safety aspects of a specific safety issue. The resulting horizontal safety standards will be applicable to many electrotechnical products. Horizontal standards are standards on fundamental principles, concepts, terminology, or technical characteristics, relevant to a number of TCs and of crucial importance to ensure the coherence of the collection of IEC standards. Examples of horizontal standards include standards for material flammability. These horizontal safety publications can then be referenced by other technical committees, keeping a consistent approach to safety.

Group safety publications apply to a specific group of product that are within the scope of two or more TCs. An example of a group safety standard would be a standard that relates to human exposure to lasers. Group safety publications are primarily intended to be stand-alone product safety publications, but may also be used by TCs as source material in the preparation of their publications.

#### IEC Guides

ACOS provides guidance to technical committees on the development of



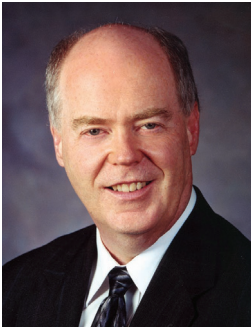
standards involving safety through a series of guides, which are available for free download from the IEC website. These guides are:

- ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*
- IEC Guide 104, *The preparation of safety publications and the use of basic safety publications and group safety publications*
- IEC Guide 110, *Home control systems – Guidelines relating to safety*
- IEC Guide 112, *Guide on the safety of multimedia equipment*
- IEC Guide 116, *Guidelines for safety related risk assessment and risk reduction for low voltage equipment*
- IEC Guide 117, *Electrotechnical equipment – Temperatures of touchable hot surfaces*

Guide 51 is jointly developed by ISO and IEC so that both organizations can maintain a similar philosophy on how and why safety requirements are included in standards. ACOS developed PowerPoint presentations that provide an overview on each of the guides. The presentations may be found at [www.iec.ch/acos](http://www.iec.ch/acos). The link may be found on the right-hand side of the page.

Many of the ACOS members are the representative of a specific Technical Committee. *(continued)*

## Advisory Committees – Weaving the Latticework of Standards *(continued)*



MARK EARLEY

Others are experts nominated by National Committees in the particular area concerned. The members are appointed by the Standardization Management Board. Most of the Technical Committees do not have a representative on ACOS. To facilitate outreach and to assist the committees, each member of ACOS is assigned as a contact point for one or more committees. The assignments change as the membership of ACOS changes. The current assignments are as follows:

Mr. P. Holm	22, 22E, 28, 82, 88, 105, 109, 112, 114, 117
Mr. B. Jaeckel	To be determined
Mr. P. Juhel	3D, 33, 34 and SCs, 37A, 38, 44, 57, 65C, 65E, 95, 121A, 121B
Mr. T. Kapper	70, 89, 101
Mr. Y. Lu	To be determined
Mr. G. Luber	77, 77A, 81, 89, 97, 101, 121, 121B
Mr. I. Maeda	3C, 39, 40, 47, 48D, 56, 110, 120, 122
Mr. J. Remy	21, 21A, 35, 86, 100, 106, 108, 111
Mr. R. Schultz	65, 65A, 72
Mr. C.D. Ziebell	23, 23A, 23B, 23E, 23G, 23H, 23J, 23K, 32B, 32C, 48B, 69, ACEE

A few TCs / SCs have two contact points:

- TC 56: M. Chevalier and I. Maeda
- TC 57: M.W. Earley and P. Juhel
- TC 64: J. Alves de Souza and E. Fajula
- TC 69: M.W. Earley and C.D. Ziebell
- TC 89 and TC 101: T. Kapper and G. Luber
- SC 121B: P. Juhel and G. Luber

ACOS has held several workshops around the world to promote awareness of the importance of safety requirements in product standards. Topics have included fire hazard assessment of electrical equipment, functional safety of programmable electronic systems, functional safety of programmable electronic safety-related systems, and safety of electromedical equipment. The most recent workshop was safety aspects in the area of e-mobility. It brought together experts from all affected IEC TCs, along with experts from ISO.

The current USNC representatives on ACOS are Tom Blewitt (UL), Larry Farr (Eaton) and Mark Earley (NFFA). ☺

RESPONSIBLE ACOS MEMBER	TECHNICAL COMMITTEES & SUBCOMMITTEES
Mr. J. Alves de Souza	64
Mr. T. Blewitt	3, 27, 61, 61B, 61C, 61D, 61H, 61J, 96, 116
Mr. M. Chevalier	56
Mr. M.W. Earley	31, 45, 57, 69, 79
Mr. E. Fajula	20, 64
Mr. L. Farr	7, 8, 9, 11, 14, 15, 17A, 17C, 18, 22G, 22H, 99, 115
Mr. J. Hamilton	13, 65B, 66, 78, 85
Mr. C. Hoepfner	29, 62, 62A, 62B, 62C, 62D, 76, 87, 104

For more information on ACOS, visit <http://www.iec.ch/acos>.

The screenshot shows the ACOS website interface. At the top, there is a navigation bar with links for 'myIEC', 'Subscribe', 'Sitemap', 'FAQs', and 'Contact us'. Below this is the IEC logo and the text 'International Electrotechnical Commission'. A search bar is also present. The main content area is titled 'ACOS Advisory Committee on Safety' and includes tabs for 'Scope', 'Structure', 'Documents', 'Guides/Projects', 'Meetings / Workshops', and 'Safety Functions'. The 'Scope' section is active, displaying text about ACOS's role in safety standards. A 'Further information' sidebar on the right lists links for 'Secretariat', 'Terms of Reference', 'ACOS Contact points', 'PPTs on IEC safety guides', 'IEC brochure on safety', and 'Chair'.

### The 2015 Annual FINCA Meeting

The annual meeting of the Forum of the IEC National Committees of the Americas - FINCA, was held in Cartagena, Colombia, on September 3 and 4, 2015.

The meetings began with a workshop that discussed various issues related to:

- IEC Conformity Assessment, presented by Argentina
- Electrical Code in Colombia and in the region, presented by Colombia
- Establishing and maintaining membership in a National Committee, presented by Mexico



Some highlights from the presentations and discussions included how Argentina has developed materials to analyze the logic framework for the establishment of ISO/CASCO systems; the great differences of harmonization in electrical installations in the region;

and raising awareness and engaging stakeholders to participate in the National Committees.

During the meeting working group sessions were conducted to discuss the following issues and actions which were prioritized and assigned ad hoc groups:

- Relations and communication interface with IEC, IEC LARC and FINCA
- List of volunteers or speakers for workshops/ seminars
- Early communication of IEC LARC agenda
- Development a FINCA website
- Action Plan to implement the MoU between COPANT and FINCA:
- Training, mentoring and awareness
- Organize FINCA meetings along with COPANT GA meetings
- Work with Rosario Uria, Leader of



- IEC Affiliate Program to engage and sensitize other countries in the region
- How to make FINCA more strategic regionally
- Develop a strategic plan to support candidates for positions in IEC in the region
- Promoting the establishment of groups of small economies membership in IEC
- Align COPANT strategic plan to include the issue in their electrotechnical work
- FINCA Newsletter - the group will work in maintaining and updating the FINCA newsletter developed by IEC LARC

Finally, as every year, the members of FINCA reported and exchanged views on positions for key issues to be discussed during the IEC General Assembly, which will take place on October 12-16, 2015, in Minsk, Belarus.

The next annual meeting of FINCA, in 2016, will take place in Argentina in conjunction with meetings of COPANT Technical Committee 151, *Electrotechnical and Smart Grids*, and Technical Committee 152, *Energy Efficiency and Renewable Energies*. ☺

#### DOCUMENTS OF INTEREST

Stay up on the latest policies, documents, and other offerings from the USNC, IEC, and ANSI by clicking on the titles below.



- [USNC Guidance Bulletins](#)
- [USNC Training Modules](#)
- [International Renewable Energy Agency International Standards and Patents in Renewable Energy platform \(INSPIRE\)](#)
- [Using & Referencing ISO/IEC Standards to Support Public Policy](#)
- [Smart Grid Standards Map](#)

## The Keys to the USNC

In 2007, as part of its Communication, Education, Marketing, and Promotion Plan, the USNC adopted a set of Key Messages to be included in communications to effectively promote USNC activities.



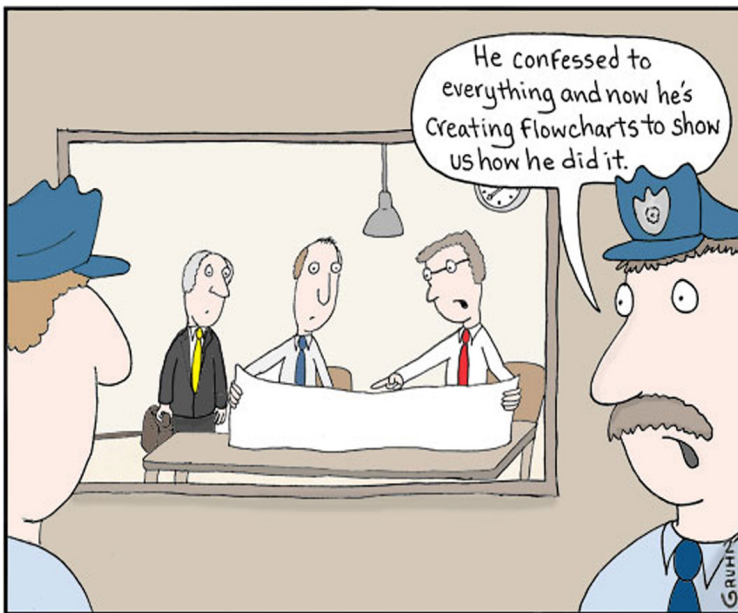
Many of those messages still hold relevance today, and can help accomplish our goal of developing a broad-based communications plan which demonstrates and promotes the USNC value propositions. In the Spring 2015 issue of USNC Current, the USNC Communication and Continuing Education Committee (C&CEC) shared the 10 key messages of the USNC. As part of this ongoing campaign, a member from our USNC C&CEC will highlight one of their favorite Key Messages in each of our issues.

After having just participated in the U.S. Celebration of World Standards Day, one key message rings particularly true for Sonya Bird, International Standards Manager, Underwriters Laboratories:

**Key Message #8:** Standardization is everywhere, and obtaining the commitment of all stakeholders to support that concept will reap benefits for society; these stakeholders include, but are not limited to, industry, regulatory agencies, electric utilities, and the academic community.

“It is important to establish an open and transparent process for developing standards, leading to easy participation by a diverse group of interests,” said Ms. Bird. “Standards are made stronger and more relevant when multiple inputs are heard and considered. As a result, the USNC continues to seek participation by individuals who may be impacted by standards, but who may not have been active in the past. In particular, in an effort to improve the US voice internationally, the USNC seeks additional participation from consumers, academia, regulators, and the utilities in matters related to IEC standardization.” ☺

### LAUGH TRACK



When Engineers Crack

## ANSI Site Licenses Support USNC



notification of updates and revisions. And the revenue ANSI receives directly supports the activities and initiatives of the USNC.

The USNC/IEC is a totally integrated committee of ANSI.

When you purchase a site license from ANSI, you are making a commitment to bolster U.S. leadership at the IEC table – and gaining the benefits of easy accessibility, total customization, and affordable pricing for all of your organization’s standards needs.

When buying IEC standards, USNC members’ organizations can obtain the greatest value and convenience by purchasing a site license from the American National Standards Institute (ANSI). ANSI site licenses enable standards to be shared within a network. They provide real-time access to standards data and offer automatic

For more information, visit [webstore.ansi.org/SiteLicense](http://webstore.ansi.org/SiteLicense) or email [sitelicenses@ansi.org](mailto:sitelicenses@ansi.org). ☺



### New USNC/IEC Training Resources and Guidance Bulletins

The screenshot shows the ANSI Standards Activities website. The main heading is "USNC/IEC Training Resources". Below this, there are four categories: Webinars, Guidance Bulletins, Training Modules, and Additional Resources. A small image shows a woman at a computer. Text on the page states: "The USNC and its members participate in approximately 90% of the technical work of the International Electrotechnical Commission (IEC). If your technology is electrotechnology, it is somewhere within the IEC." Another text block says: "To help make sure that U.S. participants are well informed, prepared, and effective in electrotechnical standardization, the USNC provides a number of education and training resources." There is also a "Webinars" section with a sub-heading: "The USNC periodically hosts webinars to help its members to understand the importance of standardization, and to help spread the message within their own organizations. The presentations given during those webinars are..."

The Guidance Bulletins include:

- USNC/IEC Guidance Bulletin 1, *Process for Inviting IEC TC/SCs to Meet in the U.S.*
- USNC/IEC Guidance Bulletin 2, *Process for Registering USNC Delegates to IEC TC/SC Plenary Meetings*
- USNC/IEC Guidance Bulletin 3, *Process for Appointing USNC Experts to IEC Working Groups (WGs), Maintenance Teams (MTs), Project Teams (PTs), etc.*

Additional Bulletins will be issued in the future, and a list of those anticipated will be circulated shortly. The USNC welcomes your comments of these documents and would also be happy to consider issuing such guidance documents on subjects that you feel are important and of interest. We look forward to hearing from you.

For more information, email [tzertuche@ansi.org](mailto:tzertuche@ansi.org).

The USNC/IEC has released new Training Resources and Guidance Bulletins on its webpage at: [http://www.ansi.org/standards\\_activities/iec\\_programs/usnc\\_training.aspx?menuid=3](http://www.ansi.org/standards_activities/iec_programs/usnc_training.aspx?menuid=3)

### About the conference

Learn about the many ways in which International Standards can support public policy goals at this IEC, ISO & UNECE conference! We will explore the benefits of referencing standards in regulations, how standards can help implement policy commitments taken at the global level (e.g. sustainability, resilience and development goals), and much more.

The event is a unique opportunity to connect national and international policymakers with standards developers, in order to share experience and best practices.

To learn more on how standards can help you, see the brochure: [Using ISO and IEC standards to support public policy](#).

**Venue: United Nations 'Palais des Nations', Room XXI, Geneva, Switzerland.** See the registration website for more details.

### Registration

To register for this event please go to <http://www.cvent.com/d/9rqv3d>. There are limited places for this event. Registration is on a first come, first served basis.

### Training

Please note that this conference is followed by a half-day training course on 'Using and referencing International Standards to support public policy'. The training course will be held at the offices of ISO/IEC in Geneva. Please register separately for the training course. Details can be found on the event website: <http://www.cvent.com/d/9rqv3d>

### About IEC, ISO & UNECE

The IEC and ISO are both independent, non-governmental, not-for-profit organizations that develop and publish fully consensus-based International Standards. The members of the two organizations include government, private and public-private entities. The IEC and ISO promote world trade and economic growth and encourage the development of products, systems and services that are safe, efficient and environmentally friendly.

The United Nations Economic Commission for Europe (UNECE) was set up in 1947 by ECOSOC. It is one of five regional commissions of the United Nations. As a multilateral platform, it facilitates greater economic integration and cooperation among its fifty-six member States and promotes sustainable development and economic prosperity.

<p><b>International Electrotechnical Commission</b> IEC Central Office 3, rue de Varembe P.O. Box 133 CH - 1211 Geneva 20 Switzerland <b>iec.ch</b></p>	<p><b>International Organization for Standardization</b> ISO Central Secretariat Ch. de Blandinnet 8 Case Postale 401 CH - 1214 Vernier, Geneva Switzerland <b>iso.org</b></p>	<p><b>United Nations Economic Commission for Europe</b> UNECE Information Service Palais des Nations CH-1211 Geneva 10 Switzerland <b>unece.org</b></p>
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The poster features a background image of classical architecture with columns. The word "conference" is written in large, semi-transparent letters at the top. Below it, the date and location are given: "02 November 2015, Geneva, Switzerland". The main title of the conference is "Using and referencing International Standards to support public policy". At the bottom, the logos for IEC, ISO, and UNECE are displayed.

## USNC Congratulates U.S. Winners of IEC's Thomas A. Edison and 1906 Awards

The U.S. National Committee (USNC) congratulates **Margie Burk**, one of eight recipients of the IEC's prestigious Thomas A. Edison Award, which honors exceptional achievement.

Ms. Burk holds the title of international standards specialist at Underwriters Laboratories (UL). She has supported three large IEC technical committees (TCs) for a number of years: TC 61: *Safety of household and similar electrical appliances* (10 years); TC 72: *Automatic electrical controls* (5 years); and TC 108: *Safety of electronic equipment within the field of audio/video, information technology and communication technology* (10 years).

During this time she has been an invaluable resource for the management of these TCs, which are very active with a constant flow of work in various stages. Ms. Burk has facilitated timely management of all reporting and coordination with members of the TCs. The success of each of these TCs is due, to a large extent, to the support that has been provided by Ms. Burk over the years.

Created in 2010, the Thomas A. Edison Award recognizes exceptional achievement (within the past five years), dedicated service, and significant contributions to the IEC through the effective management of their committees

of currently active TC/SC Officers (Chair, Secretary, or Assistant Secretary of a TC or SC) and officers of the IEC Conformity Assessment Systems and their subsidiary bodies.

Thirty-six USNC members have been selected to receive the prestigious IEC 1906 Award in recognition of their noteworthy contributions to the IEC and the electrotechnical industry.

The award is bestowed annually upon technical experts from around the globe whose exceptional involvement in IEC activities have brought about significant advancements in international electrotechnical standardization.

The USNC proudly recognizes the following IEC 1906 Award recipients for 2015:

- **Donald Barta**, TC 55
- **Ronald Battema**, TC 59
- **John Benito**, ISO/IEC JTC 1
- **Charles Biss**, ISO/IEC JTC 1
- **Dan Brake**, IECRE
- **Thomas Burke**, TC 108
- **Hui Min (Bill) Chai**, TC 33
- **Jonathan Colby**, IECRE
- **Lance Cooley**, TC 9
- **William Finley**, TC 2



- **Steven Fleshler**, TC 90
- **Elik Fooks**, TC 121
- **John Hedley-Whyte**, TC 62
- **David Holmberg**, PC 118
- **Joshua Jacobs**, TC 110
- **Ben Johnson**, TC 31
- **George Kelly**, IECRE
- **Robert Konnik**, TC 45
- **Brenda Langston**, TC 66
- **William Long**, TC 17
- **James Luther**, TC 86
- **Steven Margis**, IECRE
- **David Mazzaresse**, TC 86
- **Sharon Miller**, TC 61
- **Bob Mitchell**, TC 47
- **Enio Montenegro**, TC 62
- **Gregory Nieminski**, TC 69
- **David Osborn**, TC 62
- **John Quigley**, IECRE
- **William Radasky**, TC 77
- **Brian Rodgers**, TC 61
- **Penny Smalley**, TC 76
- **Robert Spears**, TC 22
- **Jeroen Van Dam**, IECRE
- **Ed Van Vooren**, TC 112
- **Grace Wei**, TC 100



A number of the U.S. 1906 Award winners with USNC leadership at the USNC Council Meeting in Arlington, VA.

The IEC 1906 Award was established in 2004 to commemorate the IEC's year of foundation. The USNC congratulates all the 2015 Award winners.

For more information, visit [www.iec.ch/about/awards/](http://www.iec.ch/about/awards/).

## USNC Wins Big at the 2015 ANSI Awards Banquet and Ceremony

The American National Standards Institute (ANSI) honored leaders of the U.S. and global voluntary standards and conformity assessment community on September 30 at the 2015 ANSI Awards Banquet and Ceremony. ANSI's annual leadership and service awards program is a long-standing tradition that recognizes and honors creativity, dedication, and vision in the field of standards and conformity assessment.

Held at the Fairmont Washington hotel in Washington, DC, the awards ceremony and dinner was one of many ANSI-hosted events comprising the celebration of World Standards Week 2015. Of the twenty-one distinguished individuals recognized at the ceremony, the following 11 are current or former USNC members:

**Philip Piqueira** (USNC President), vice president, global standards for Underwriters Laboratories (UL), was awarded the Astin-Polk International Standards Medal, which honors distinguished service in promoting trade and understanding among nations through the advancement, development, or administration of international standardization, measurements, or certification.

**Paraskevas (Paris) Stavrianidis** (former USNC Council Member), vice president and general manager of FM Approvals LLC, received the Howard Coonley Medal, which recognizes an executive who has benefited the national economy through voluntary standardization and conformity assessment and has given outstanding support to standardization as a management tool.



ANSI 2015 Leadership and Service Award winners

**Gary Schrempp** (current USNC Council Member), director of global regulation and product safety investigations with Dell, Incorporated, was awarded the Edward Lohse Information Technology Medal, which recognizes outstanding efforts to foster cooperation among the bodies involved in global IT standardization.

**James Matthews** (IEC Vice President/SMB Chair), director of technical standards and standards policy with Corning, Incorporated, was awarded the Elihu Thomson Electrotechnology Medal, which honors an individual who has contributed in an exceptional, dedicated way to the field of electrotechnology standardization, conformity assessment, and related activities at the national and international levels.

Three of the five Next Generation Award winners were also USNC Young Professionals for 2014. They are:

- **Ryan Franks**, technical program manager, National Electrical Manufacturers Association (NEMA)
- **Kevin Mangold**, computer scientist,

National Institute of Standards and Technology (NIST)

- **Carin Stuart**, senior technology engineer, Energizer Battery Manufacturing, Inc.

The following four Meritorious Service Awards are also USNC Council Members:

- **C.P. (Sandy) Butterfield** (USNC CAPCC Member), president, Boulder Wind Consulting
- **JoAnn Emmel** (USNC Council Member/Consumer Representative), associate professor emerita, Virginia Tech University
- **Carol Herman** (USNC Council Member), senior vice president, standards policy and programs, Association for the Advancement of Medical Instrumentation (AAMI)
- **Stephanie Montgomery** (USNC Council Member), vice president, technology and standards department, Telecommunications Industry Association (TIA)

The USNC congratulates all the 2015 ANSI Award winners. For more information, visit [www.ansi.org/awards](http://www.ansi.org/awards). ☺

SAVE THE DATE

## Mark Your Calendar for Upcoming Meetings & Events

### ABOUT THIS PUBLICATION

The USNC Current newsletter is distributed to the constituency of the U.S. National Committee (USNC) of the International Electrotechnical Commission (IEC). It provides updates on technical activities and other information of interest to members of the electrotechnical community. Some articles are reprinted with permission from the IEC News log.

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### HOW TO CONTRIBUTE

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## 2015

**12 – 16 October**  
**79th IEC General Meeting**  
**Minsk, Belarus**  
Monday 12: SMB, CAB  
Wednesday 14: CB  
Friday 16: Council  
(Technical meetings  
5–16 October)

## 2016

**12 – 14 January**  
**CAPCC/TMC/Council Meetings**  
**Sony Offices, San Diego, CA**

**23 February**  
**SMB Meeting**  
**Geneva**

**15 – 17 April**  
**USA Science & Engineering Festival**  
**Washington, DC**

**18 – 22 April**  
**COPANT General Assembly**  
**Quito, Ecuador**

**8 – 12 May**  
**Pacific Area Standards Congress (PASC) 39**  
**Bali, Indonesia**

**13 June**  
**CAB Meeting, Geneva**

**14 June**  
**SMB Meeting, Geneva**

**15 June 2016**  
**Council Board, Geneva**

**30 August – 1 September**  
**CAPCC/TMC/Council Meetings**  
**IEEE, Piscataway, NJ**

**10 – 14 October**  
**80th IEC General Meeting**  
**Frankfurt, Germany**  
Monday 10: SMB/CAB  
Wednesday 12: CB  
Friday 14: Council

For additional event info, visit [www.ansi.org/calendar](http://www.ansi.org/calendar) and search for "USNC" or "IEC."

### UPCOMING ISSUES OF THE USNC CURRENT

Q IV Health & Fitness

[www.ansi.org/usnc](http://www.ansi.org/usnc)