Benefits of Standards Work for Emerging Professionals

Presented by:
USNC Communications and Continuing Education Committee
Moderator
Phil Piqueira, USNC President, UL

Speakers
Manyphay Viengkham, Client Implementation Manager, General Electric
Ethan Biery, Design and Development Leader, Lutron Electronics
Ryan Franks, Program Manager, NEMA
What is the IEC?

- The International Electrotechnical Commission is the leading global organization that publishes consensus-based International Standards and manages conformity assessment systems for electric and electronic products, systems and services, collectively known as electrotechnology.
What Is the USNC?

- United States National Committee

- Represents the interests of the U.S. electrotechnical industry before its international counterparts in the standardization arena

- Committee of the American National Standards Institute (ANSI)
What Does the USNC/IEC Do?

- Serves as the U.S. point of contact for industry, government, consumers, academia, and other stakeholders in the electrotechnical industry
- Represents U.S. interests before the IEC and selected international electrotechnical forums
- Provides guidance to ANSI’s Board of Directors on policy issues and procedures involving the electrotechnical industry
Presentation Areas

1. Introduction - *Phil Piqueira*
   - How getting involved with standards early on positively impacts your career

2. Benefits to the Individual - *Manyphay Viengkham*
   - What organizations stand to gain from employees’ participation in the standards process

3. Benefits to Employers - *Ethan Biery*
   - How young and emerging professionals contribute to the regional and global community

4. Benefits to the Standards Community - *Ryan Franks*
Benefits of Standards Work for Emerging Professionals

Benefits to the individual
Why should I get involved in standards early in my career?
Our Members

**Industry / Companies**
- Corning Incorporated
- Dell Inc.
- Eaton Corporation
- FM Approvals
- Hubbell Inc.
- Intertek
- Pass Seymour/Legrand (NEMA)
- Philips Healthcare
- Qualcomm
- Rockwell Automation
- Schneider Electric
- Siemens Industry Inc.
- Sony Electronics Inc.
- The Boeing Company
- Thomas & Betts (NEMA)
- Underwriters Laboratories

**Organizations**
- Association for the Advancement of Medical Instrumentation
- CSA Standards
- Consumer Electronics Association
- IEEE
- Electronic Components Industry Association
- National Electrical Manufacturers Association
- National Fire Protection Association
- Telecommunications Industries Association

**Government**
- Food and Drug Administration
- National Institute of Standards and Technology
- U.S. Department of Defense

**Other**
- U.S. Representative IEC Conformity Assessment Board
- Virginia Tech University (Consumer Advocate)
Why should I get involved in standards early in my career?

- The communication and negotiation skills learned and practiced in the standards environment help people become better mentors, leaders and managers.

- Get your voice heard in the international arena and help shape the future of global standardization and conformity assessment.
Regional Organizations

The Americas
- CANENA
- COPANT
- FINCA

Europe
- CENELEC, CEN, ETSI
- E Secondary

Middle East
- AIDMO, GSO, GCC

Africa
- ARSO, SADC

Pacific Rim
- PASC
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Benefits to Employers
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IEC Areas of Work

- A/V and multimedia
- Alternative energies
- Assembly technology
- Capacitors and resistors
- Connectors
- E-Mobility
- Electric cables
- Electroacoustics
- Fiber optics
- Industrial process automation
- Information technology
- Nanotechnology
- Power systems management
- Railway equipment and systems
- Safety of household appliances
- Smart Grid
- Solid electrical insulating materials
- Renewables
New Technical and Systems Committees

TC 113 Nanotechnology standardization for electrical and electronic products and systems
TC 114 Marine energy - Wave, tidal and other water current converters
TC 115 High Voltage Direct Current Transmission for DC voltages above 100kV
TC 117 Solar Thermal Electric Plants
TC 119 Printed Electronics
TC 120 Electrical Energy Storage (EES) Systems
SyC SE Smart Energy
SyC AAL Active Assisted Living
The USNC at Work

- IEC Standards and Conformity Assessment services offer
  - market access
  - global awareness
  - technology transfer
  - business efficiency
  - competitive advantage

- Every year hundreds of U.S. experts participate in IEC meetings, directly affecting the development of international standards
Why Young Professionals are important to the Standards community

Benefits to the Standards Community
How do young and emerging professionals affect the standards community?
Fresh Ideas and Perspectives
Hot Button Issues

- **IEC Systems Approach**
  - Specialized Committees working at the systems instead of the product level to define reference architectures, use cases and appropriate standards and interaction of a system within the scope of their charter.

- **China**
  - Fast becoming a major player in the international standards arena and a vital contributor with which you will interface.

- **Renewable Energies**
  - IEC international standards and certification schemes for technical performance and safety.
In Summary - *Join us!*

- Without new faces, the U.S. will be unprepared for the growth and change required by today’s global markets
- Every year, hundreds of U.S. delegates participate in USNC and IEC activities
- The standards development process offers unique growth and enrichment opportunities for young and emerging professionals
USNC Young Professionals Competition

- The U.S. National Committee (USNC) is currently seeking nominations of emerging electrotechnology professionals for the upcoming IEC Young Professionals Workshop, being held on October 12-16, 2015, in Minsk, Belarus, in conjunction with the 79th IEC General Meeting.
- Nominations can be submitted by completing the USNC Young Professionals Workshop Nomination Form and submitting it to Charlie Zegers, General Secretary of the USNC, via email at czegers@ansi.org by Thursday, April 30, 2015.
Thank you!
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