IEEE Standards Association Workshop

IEEE's Power and Energy Standards

1-4 PM
Friday, 14 June 2019
Panama Hilton, Panama City, Panama

Agenda

1:00-1:10	Welcome and IEEE in Panama *Guadalupe Gonzalez, Assistant Professor, Technological University of Panama; president, IEEE Panama Section*
1:10-1:35	Introduction to IEEE Standards Association (IEEE-SA) and IEEE Standards Development Process *Mary Lynne Nielsen, Director, IEEE-SA Business Operations*
1:35-2:00	Intro to IEEE's Power & Energy Society *Gary Hoffman, President and Founder, Advanced Power Technologies; chair, IEEE-SA Standards Board*
2:00-2:20	IEEE's Switchgear Standards *Doug Edwards, Director of Engineering and Plant Manager, Customer Service Division, Siemens; member, IEEE-SA Standards Board*
2:20-2:45	IEEE's Transformer Standards *Gary Hoffman, President, Advanced Power Technologies; chair, IEEE-SA Standards Board*
2:45-3:10	Networking Break
3:10-3:30	IEEE's Power-Line Communication and Smart Grid Standards *Jean-Philippe Faure, CEO and Co-Founder, Progilon; past chair, IEEE-SA Standards Board*
3:30-3:55	IEEE Industrial Application Society Standards *Daleep Mohla, Owner and Principal Consulting Engineer, DCM Electrical Consulting Services; member, IEEE-SA Standards Board*
3:55-4:00	Wrap up and questions

(Agenda as of 3 May 2019)

Doug Edwards is employed by Siemens Industries, Inc., currently serving as director of engineering and plant manager for the customer service division, leading Siemens' business associated with legacy low-voltage, medium voltage, and high-voltage circuit-breaker and switchgear products. He is a licensed professional engineer, electrical contractor, and project management professional.

Doug is active with various industry standards activities of the IEEE Standards Association (IEEE-SA), serving on the IEEE-SA Standards Board and as the IEEE Power & Energy Society Switchgear Committee secretary/treasurer. He served as a leader for various IEEE switchgear standards working groups and is a current subcommittee and working group chair for Standards Coordinating Committee (SCC) 14 (quantities, units and letter symbols).

Doug is active with NEMA and with Accredited Standards Committee (ASC) C37. He is a graduate of North Carolina State University with a degree in electrical engineering.

Jean-Philippe Faure is the CEO of Progilon, a global consulting company in the fields of communication technologies and standards that he co-founded in 1994.

Jean-Philippe was chair of the IEEE Standards Association (IEEE-SA) Standards Board in 2016-2018, continuously overseeing 650+ standards development projects involving 20,000+ developers worldwide. He currently serves as member of the IEEE-SA Board of Governors.

Jean-Philippe is a world-class expert in power-line communications (PLC). He was a pioneer of PLC activities in IEEE and IEC-CISPR. As founding chair of the IEEE 1901 working group, he led the development by 90 companies and 350 individuals of the first global broadband powerline communication MAC/PHY standard, IEEE 1901-2010. He also led, as founding chair of the IEC-CISPR/I PLT project team on PLC electromagnetic compatibility (EMC), the development of an EMC draft standard that was approved as harmonized standard CENELEC EN 50561-1 in 2013.

Since 2010, Jean-Philippe has been the founding chair of the IEEE Communications Society PLC Standards Committee that develops and maintains IEEE PLC standards for in-home networking, smart grid, smart metering, vehicle to grid, Internet of Things, and IEEE PLC-related standards for heterogeneous networks using wireless and wired technologies.

Jean-Philippe has been a member of several European standardization committees in CENELEC, ETSI, and AFNOR; consultant for the European Commission; and has worked with regulatory authorities in Europe and Asia-Pacific. Jean-Philippe received his master's degree in engineering from Ecole Centrale Marseille in France in 1987.

Guadalupe Gonzalez is an assistant professor in the department of electrical engineering at the Technological University of Panama (UTP), where she is also director of the SMARTS-E research program. She is a member of the Panamanian Association for the Advancement of Science (APANAC); Sigma Xi, The Research Society; and IEEE, where she is a senior member.

Guadalupe has served in multiple IEEE roles in Panama and regionally, including coordinator of the Technical Committee of CONCAPAN XXXIV and as the representative for the Power & Energy Society for Central America and Panama (CAPANA). She is currently president of the IEEE Panama Section. She has received an IEEE MGA Achievement Award and the IEEE Panama Section's Manuel Lopez Spla Award.

She is also a consultant and active member of the Regional Initiative for Developing Patents for CAF (Development Bank of Latin America). Since 2018, Guadalupe has been the executive secretary and representative of academia on the board of directors of The World Energy Council's Panama chapter.

Guadalupe's areas of interest include energy planning, smart cities, sustainable engineering, design and control of electrical machines, power electronics, renewable energy systems, and modeling of energy systems. Currently, she is studying modeling of physical properties of biological materials. Guadalupe has published multiple articles in indexed journals and conference proceedings at national and regional levels.

Guadalupe graduated from UTP with a bachelor's degree in electromechanical engineering. She earned a PhD in electrical engineering from Texas A&M University.

Gary Hoffman founded and has been the president of Advanced Power Technologies for the last 20 years. Prior to starting APT, Gary was general manager of ALSTOM's T&D protection and control division in the United States. Prior to ALSTOM, he was with RFL Electronics, where he held various executive positions including senior vice president of sales and marketing, vice president of operations, and vice president of engineering. Gary holds 13 US and foreign patents and is a Fellow grade member of IEEE.

He is a member of the IEEE Power & Energy Society (PES); the IEEE-PES Transformers Committee; and the chair of IEEE standards working groups C57.12.10, C57.116, C57.167, and 260.4 as well as vice chair of C57.163. Gary is a member of CIGRE and a member of its WG A2.57. He is chair of the IEEE SA Standards Board (IEEE SASB), a member of the IEEE-SA Board of Governors, and chair of IEEE Standards Coordinating Committee (SCC14). He is the prior chair of the IEEE SASB Review Committee and a prior member of the IEEE SASB Procedures, Patent, and Industry Connections Committees.

Gary is the author of Chapter 24, "On-Line Monitoring," of *Liquid-Immersed Power Transformers*. He also contributed Chapter 9, "Monitoring and Diagnostics," to EPRI's *The Copper Book*. Gary holds a BS degree in engineering and an MS degree in electrical engineering from the State University of New York at Stony Brook.

Daleep Mohla is the owner and principal consulting engineer for DCM Electrical Consulting Services, providing National Electrical Code and National Fire Protection Association (NFPA) 70E training, preparation and audit of electrical safety programs and facilities, and forensic investigations.

Daleep is a registered professional engineer in the state of Texas. He is active in IEEE and NFPA standardization, serving as chair of IEEE 1584, IEEE Guide for Performing Arc-Flash Hazard Calculations, and chair of the Industrial Applications Society (IAS) Standards Committee. He is also a member of the IEEE-SA Standards Board. Daleep participates in the NFPA 70E Technical Committee and the National Electrical Code Panel 5 on grounding and bonding.

He received the 2007 IEEE IAS Petroleum and Chemical Industry Committee's (PCIC's) David Azbill award and the 2011 IEEE Charles Proteus Steinmetz award "for contributions to the preparation, dissemination, and advocacy of consensus safety standards for operation and maintenance of industrial and commercial power systems to include safety concepts." He received the Safety Excellence Award from IEEE PCIC in 2014. Daleep was elevated to IEEE Life Fellow in 2006 for contributions to electrical safety design concepts to reduce workplace hazards.

Mary Lynne Nielsen has worked in the technology standards field for over 30 years, supporting the creation of industry consensus at the IEEE Standards Association (IEEE-SA). Currently, she is the director of business operations for the IEEE-SA, managing responsive and complex staff support services to units within the IEEE-SA. She offers thought leadership, planning, and execution in support of IEEE-SA's event and outreach programs, working to ensure appropriate activities and relationships are managed with a variety of internal departments and external organizations.

Mary Lynne's responsibilities at IEEE have included program creation and directorship, strategic program management, policy creation and management, editing, process management, global outreach, project management, membership, and envisioning the future. She is proud to have co-crafted the documents that led to the creation of the IEEE Standards Association and the IEEE Industry Standards and Technology Association (IEEE ISTO), as well as developing the process and procedures for IEEE-SA's corporate membership program.

Mary Lynne also acts as a catalyst for collaboration within IEEE and between IEEE and others in advancing emerging and converging technologies and supporting multi-stakeholder discussions, serving as a speaker at and developer of multiple conferences. A graduate of Indiana University, Mary Lynne has also completed executive education at Cornell University. Prior to her work at IEEE, she was employed by Oxford University Press. She is the recipient of an IEEE Computer Society Certificate of Appreciation as well as an Appreciation Award from the IEEE-SA Standards Board.