

## IGF 2015

### IEEE Open Forum Report

**Title of the Open Forum:** IEEE@IGF: Advancing Technology for an Open Internet

**Date:** 13 November 2015

**Time:** 12:00-13:00

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#### ***Brief Summary of Forum:***

This Open Forum introduced IEEE and its mission to advance technology for the benefit of humanity. It described how the technical communities of IEEE work to develop technology solutions to support an open Internet and sustainable development across technology domains and industry sectors, and it discussed how IEEE works with partners on a global scale on issues related to open standards, Internet governance, cybersecurity, and privacy.

- IEEE's goals are to:
  - Expand and enable dynamic, nimble, flexible, diverse, communities to help individuals from around the world to share, collaborate, network, debate, and engage with one another.
  - Provide technically vital forums for the discussion, development, and dissemination of authoritative knowledge related to traditional technologies while focusing more of IEEE's resources towards serving the professionals working on emerging and disruptive technologies.
  - Lead humanitarian efforts around the world to use technology to solve the world's most challenging problems.
  - Leverage IEEE's technology-related insight to provide governments, NGOs, and other organizations and the public with innovative, practical recommendations to address public policy issues.
- IEEE represents a set of values that are common to engineering practices and that are used by IEEE members in their technical contributions to develop the Internet and related technologies, such as transparency, open discussion, protection of privacy, bottom-up development, transnational cooperation and consensus standards.
- IEEE is uniquely suited as a neutral, credible forum for information exchange, knowledge growth and capacity building at the intersection of public policy and technology.
- IEEE has a proven standards process that is rooted in consensus, due process, openness, right to appeal and balance.
- IEEE has communities of thousands of engineers, scientists, and industry leaders globally, across an unmatched array of technology and industry domains
- The footprint of IEEE extends into the areas of education, humanitarian outreach, and professional development
- The IEEE Internet Initiative connects the technical community to global policymaking for Internet governance, cybersecurity and privacy—to inform debate and decisions, and to help ensure trustworthy technology solutions and

best practices.

- Policy experts need reliable guidance to make informed Internet public-policy decisions, and the IEEE Internet Initiative delivers a neutral, credible forum to help ensure trustworthy technology solutions and best practices in Internet policymaking.
- Technologists need an understanding of the Internet public-policy landscape to help drive proactive technology design, and the IEEE Internet Initiative brings technologists into Internet public-policy discussions—both boosting their awareness of issues and processes and increasing their influence.
- Industry needs sound Internet policy because it helps fuel Internet innovation, sustainability and market growth, and the IEEE Internet Initiative encourages sound policy informed by the technical community in Internet governance, cybersecurity and privacy discussions.
- From across varied technology domains and industry sectors, technical experts have worked through IEEE to expand Internet interoperability, fuel innovation and hone solutions that support an open Internet and sustainable development.
- IEEE has facilitated development of standards for the Internet that span wired and wireless connectivity, encryption, data security, etc.:
  - IEEE 802.3™ (Ethernet), IEEE 802.11® (“Wi-Fi®”) and a host of other complementary, foundational standards support simple and universal connectivity to the Internet, for example.
  - IEEE has a number of security-related standards that address specific technical areas, such as IEEE 1363™ for encryption, IEEE 1619™ and IEEE 1667™ for fixed and removable storage, IEEE 2600™ for devices such as printers and copiers, IEEE 802.1AE™ for data integrity and user data confidentiality and IEEE 802.1Xbx™ for MAC security key agreement protocol data elements and procedures.
  - IEEE has consensus activities in cybersecurity areas such as anti-malware and anti-phishing.
- IEEE has many initiatives directed to new and emerging technologies, such as smart cities, cybersecurity, and big data.
- IEEE highlighted one of its new technology initiatives on the Internet of Things, sharing details of the program and the potential opportunities it offers.

**Panelists:** Karen McCabe, Mary Lynne Nielsen, and Jim Wendorf, IEEE; Roberto Minerva, IEEE/Telecom Italia

**Reported out by:** Karen McCabe, IEEE