



Overview of the IEEE

Presented by:

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IEEE Region 3, Area 9 Chair

About IEEE

- A non-profit organization, IEEE is the world's leading professional association for the advancement of technology.
- The IEEE name was originally an acronym for the Institute of Electrical and Electronics Engineers, Inc. Today, the organization's scope of interest has expanded into so many related fields, that it is simply referred to by the letters I-E-E-E (pronounced Eye-triple-E).



Who IEEE Serves

- Through its global membership, IEEE is a leading authority on areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics among others.
- Members rely on IEEE as a source of technical and professional information, resources and services.
- To foster an interest in the engineering profession, IEEE also serves student members in colleges and universities around the world.
- Other important constituencies include prospective members and organizations that purchase IEEE products and participate in conferences or other IEEE programs.



IEEE Quick Facts

- More than 375,000 members including nearly 80,000 student members in more than 160 countries.
- 324 sections in ten geographic regions worldwide.
- 1,784 chapters that unite local members with similar technical interests .
- 1,616 student branches and 452 student branch chapters at colleges and universities in 80 countries.
- 38 societies and 7 technical councils representing the wide range of technical interests.
- 390 affinity groups consisting of Consultants' Network, Graduates of the Last Decade (GOLD), Women in Engineering (WIE) and Life Members (LM) groups.
- Nearly 1,300 standards and projects under development.
- More than 1.7 million documents in the IEEE/IET Electronic Library.
- Publishes a total of 144 transactions, journals and magazines.
- sponsors more than 850 conferences annually



Standards

- The IEEE is a **leading developer of international standards** that underpin many of today's telecommunications, information technology and power generation products and services.
- Often the central source for standardization in a broad range of emerging technologies, the IEEE Standards Association has a portfolio of some **900 active standards and more than 400 standards in development**. This includes the prominent IEEE 802® standards for wireless networking.



Global Reach

Globally recognized, the IEEE-SA has strategic relationships with the **International Electrotechnical Commission (IEC)**, **International Standard Organization (ISO)** and **International Telecommunication Union (ITU)**, and satisfies all Standards Development Organizations requirements set by the World Trade Organization, offering more paths to international standardization and is **making a difference in diverse fields.**



[Such as:-]

- Power and Energy
- Information Technology
- Telecommunications
- Transportation
- Medical and Healthcare
- New and emerging fields, such as nanotechnology, cybersecurity, information assurance, and green technology

IEEE 802 Standards

- [802-2001](#) - IEEE standard for local and metropolitan area networks: overview and architecture
Reaffirmed 2007 [Revision of 802-1990](#)
- [802.1AB-2005](#) - IEEE Standard for Local and metropolitan area networks Station and Media Access Control Connectivity Discovery
- [P802.1AB/REVD2.2, Dec 2007](#) - IEEE Standard for Local and metropolitan area networks Station and Media Access Control Connectivity Discovery
- [802.1ad-2005](#) - IEEE Std 802.1ad - 2005 IEEE Standard for Local and metropolitan area networks - virtual Bridged Local Area Networks, Amendment 4: Provider Bridges
- [802.1AE-2006](#) - IEEE Standard for Local and Metropolitan Area Networks-Media Access Control (MAC) Security



IEEE 802 Standards

- [P802.1af/D1.7, Nov 2007](#) - Draft Standard for Local and Metropolitan Area Networks--Port-Based Network Access Control--Amendment 1: Authenticated Key Agreement for Media Access Control (MAC) Security
- [802.1ag - 2007](#) - IEEE Standard for Local and metropolitan area networks - Virtual Bridged Local Area Networks Amendment 5: Connectivity Fault Management
- [P802.1ah/D4., Feb 2008](#) - Draft Standard for Local and Metropolitan Area Networks--Virtual Bridged Local Area Networks--Amendment 6: Provider Backbone Bridges (Amendment to IEEE Std 802.1Q - REV)
- [P802.1aj/D2.2, Oct 2007](#) - Draft Standard for Local and Metropolitan Area Networks--Virtual Bridged Local Area Networks--Amendment 08: Two-Port Media Access Control (MAC) Relay
- [802.1ak-2007](#) - IEEE Standard for Local and metropolitan area networks - Virtual Bridged Local Area Networks - Amendment 7: Multiple Registration Protocol
- [P802.1ak Cor 1/D1.0, Dec 2007](#) - Draft Standard for Local and Metropolitan Area Networks--Virtual Bridged Local Area Networks--Amendment 07: Multiple Registration Protocol--Corrigendum 1 (Corrigendum to IEEE 802.1ak-2007)
- [P802.1ap/D3.0, Oct 2007](#) - Local and Metropolitan Area Networks--Virtual Bridged Local Area Networks Amendment: Management Information Base (MIB) definitions for VLAN Bridges
- [P802.1ax/D2.1, Feb 2008](#) - Draft Standard for Local and Metropolitan Area Networks Link Aggregation
- [802.1D-2004](#) - IEEE Standard for Local and metropolitan area networks Media Access Control (MAC) Bridges



IEEE Region 3

- IEEE Region 3 encompasses the southeastern United States and includes the states of Alabama, Florida, Georgia, areas of Indiana, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and the country of Jamaica.



IEEE Jamaica Section

- The Jamaica Section is an association of local engineers and technologists (IEEE members) who network with colleagues, develop activities for professional development, and share expertise through technical presentations.
- All IEEE members in Jamaica and the public are invited to attend and participate in Section meetings which are usually held the third Wednesday of each month, a tradition for 31 years.



Section Membership

- There are over two hundred Section members.
- The original members of the Steering Committee were: Wilfred Roberts, S.A Mullings and Ruel Sammuels.
- **Members who served as Section Chair were:** Al Hall, Herbert Sharpe, Hugh Cross, Hopeton Heron, Andrew Jackson, Dennis Hartley, Basil Davidson, Andrea Small, Bryan Aikman, Stephen Legister, Halden Morris, Devon Gayle and Wilfred Roberts.
- **Members who served as Region 3, Area 9 Chairs were:** Hopeton Heron, Andrew Jackson, Dennis Hartley, Halden Morris, Devon Gayle and Life Senior Member Wilfred A. Roberts.



Senior Members

- **Senior IEEE members in the Jamaica Section** are: Hugh Brand, D.G. Campbell, Dennis Hartley, David Simm, Dr. Halden Morris, Wilfred A. Roberts, Devon Gayle, Basil Davidson, Richard Gibbs, Peter Henry, Winston Smith and Dave Reece.



Section Activities

- The following are some of the activities in which the Jamaica Section has been engaged:
- Electro-technology Seminars
- Packet Switching Seminars
- Annual Luncheons
- Video-Conferences
- Technical Visits
- Technical Presentations
- Presentations to clubs and schools
- Regional Conferences
- International Conferences
- Public Technical Fora

Major Technical Conference

- The Jamaica Section was the major host for **SoutheastCon 2003** which was held at the Renaissance Jamaica Grande Resort in Ocho Rios, Jamaica April 4-6, 2003.
- SoutheastCon is the annual Region 3 technical, professional, and student conference. It brought together electrical and computer engineering professionals and students to share the latest information through technical sessions, tutorials and exhibits.
- The student conference was the major event of Southeastcon, and the University of Technology, Jamaica was the host and sponsor of this program.

