

IEEE and its Queensland Section

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The Institute of Electrical and Electronics Engineers, Inc. IEEE

A non-profit organisation

**The world's leading professional
association for the advancement of
technology**

VISION

- Advancing global prosperity
- Fostering technological innovation
- Enabling members careers
- Promoting worldwide community.

MISSION

The IEEE promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro and information technologies and sciences for the benefit of humanity and the profession.

Today's Discussion

- Benefits of IEEE Membership
- Special Interest Memberships
- IEEE—the Organisation
- Queensland Section Introduction
- Local Activities

Benefits of IEEE Membership

[*www.ieee.org/join*](http://www.ieee.org/join)

Knowledge ...

staying current with the fast-changing world of technology

Community ...

unparalleled networking opportunities, and the buying power into low, members-only rates on benefits and services

Profession ...

empowering members to build their careers, and giving back to society

Knowledge: Stay Current

IEEE Spectrum Magazine

The Institute Newsletter

IEEE Potentials Magazine

IEEE Xplore Digital Library

What's New @ IEEE

Additional Benefits (add-ons)...

- ❑ IEEE Member Digital Library
- ❑ Proceedings of the IEEE
- ❑ Conference Attendance at reduced rates
- ❑ IEEE Society Membership



Community: Network

IEEE e-Mail Alias



IEEE Sections, Student
Branches, and Technical
Chapters

Online Membership
Directory (4Q-2006)

Volunteering

Having a Say



Profession: Development & Recognition

Awards

Continuing Education Partners
Program

IEEE Job Site, Career Alert

Scholarships

Career Alert

Consultants Database

Today's Engineer

Education Partners Program (EPP-IEEE)



IEEE Job Site FEATURED JOBS

Senior Research
Athlone, Ireland
Ericsson Ireland

Electrical Engineer
Palmetto, FL
ITW GSE Group -
Trilectron

**Electromagnetic
Research Scientist**
Champaign, IL
SAIC

**Automation/Controls
Engineer (Robotics)**
Carlsbad, CA 92008
Callaway Golf
Company

Aerospace Engineer
Hampton, VA
SAIC

**Cost Engineer/Cost
Manager**
Washington, DC
20560-0908
Smithsonian
Institution

**Staff Equipment
Engineer**
Santa Clara, CA
95128
Affymetrix, Inc.

Special Interest Memberships

[*www.ieee.org/join*](http://www.ieee.org/join)

Additional Memberships

- **39 IEEE Technical Societies**
- **IEEE Standards**
- **IEEE Women in Engineering**

Society Membership

**IEEE Society membership
enhances the benefits of
IEEE membership**

**39 Societies representing a
full spectrum of technical
interests**

- ❑ Subscriptions and online content
- ❑ Local technical chapters
- ❑ Network w/ innovators, experts, and practitioners
- ❑ Volunteering opportunities
- ❑ Technical committees
- ❑ Journal editors
- ❑ Member-only rates on additional publications



Technical Societies

- ☒ Aerospace & Electronic Systems
- ☒ Antennas & Propagation
- ☒ Broadcast Technology
- ☒ Circuits & Systems
- ☒ Communications
- ☒ Components, Packaging, & Manufacturing Technology
- ☒ Computer
- ☒ Computational Intelligence (formerly Neural Networks)
- ☒ Consumer Electronics
- ☒ Control Systems
- ☒ Dielectrics & Electrical Insulation
- ☒ Education
- ☒ Electromagnetic Compatibility
- ☒ Electron Devices
- ☒ Engineering in Medicine & Biology
- ☒ Engineering Management
- ☒ Geoscience & Remote Sensing
- ☒ Industrial Electronics
- ☒ Industry Applications
- ☒ Information Theory
- Instrumentation & Measurement
- Intelligent Transportation Systems
- Lasers & Electro-Optics
- Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Power Electronics
- Power Engineering
- Product Safety Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Society on Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology

IEEE Standards Association

A standards program that serves the global needs of industry, government, and the public.

Full range of standards services to support standards development job work.

- **Individual Membership**
 - Unlimited balloting
 - IEEE-SA news
 - IEEE-SA Member Central
 - Member discounts
 - Voting Rights, IEEE-SA governance
- **Corporate Membership**
 - Corporate Forum
 - Corporate Advisory Group
 - Online Community
 - Complimentary Individual memberships
 - Voting Rights, IEEE-SA governance



IEEE Women In Engineering

Mission – to facilitate the development of programs and activities that promote the entry into and retention of women in engineering programs.

An opportunity for members to network at the local level.

90+ local groups worldwide



-  **RECOGNIZES**
-  **ORGANIZES**
-  **ADVOCATES**
-  **PROVIDES**
-  **PROMOTES**
-  **FACILITATES**
-  **ADMINISTERS**

IEEE: the Organisation

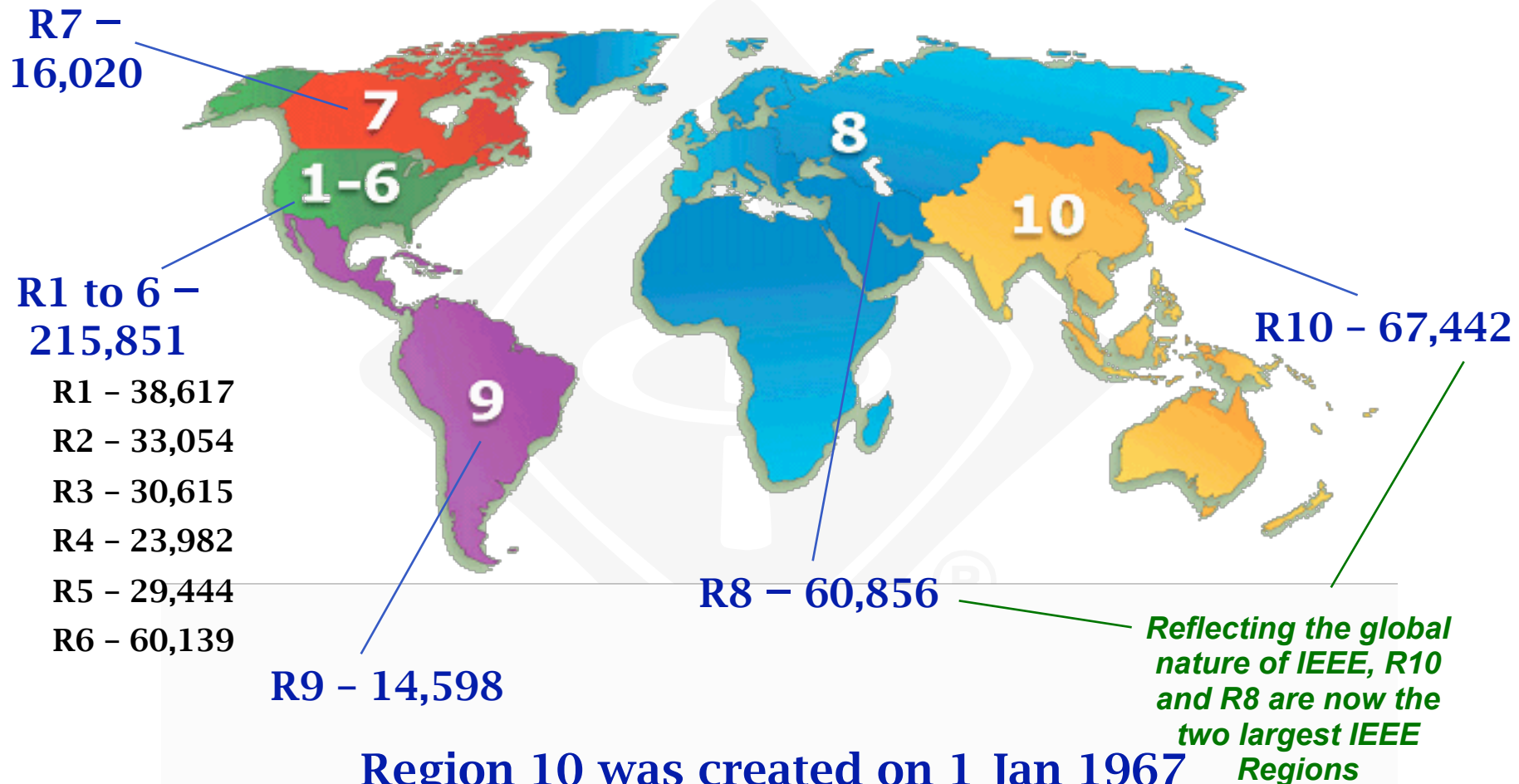
[*www.ieee.org/join*](http://www.ieee.org/join)

Thanks to its members IEEE is the World's largest technical professional society for the advancement of technology

- ☒ Over 374,000 members in 150 countries
 - ☒ More than 70,000 students
- ☒ Holds more than 350 international conferences annually
- ☒ Publishes over 30% of the world's literature in electrical engineering and computing
- ☒ Offers more than 900 active industry standards

IEEE Membership, 374,767, by Regions

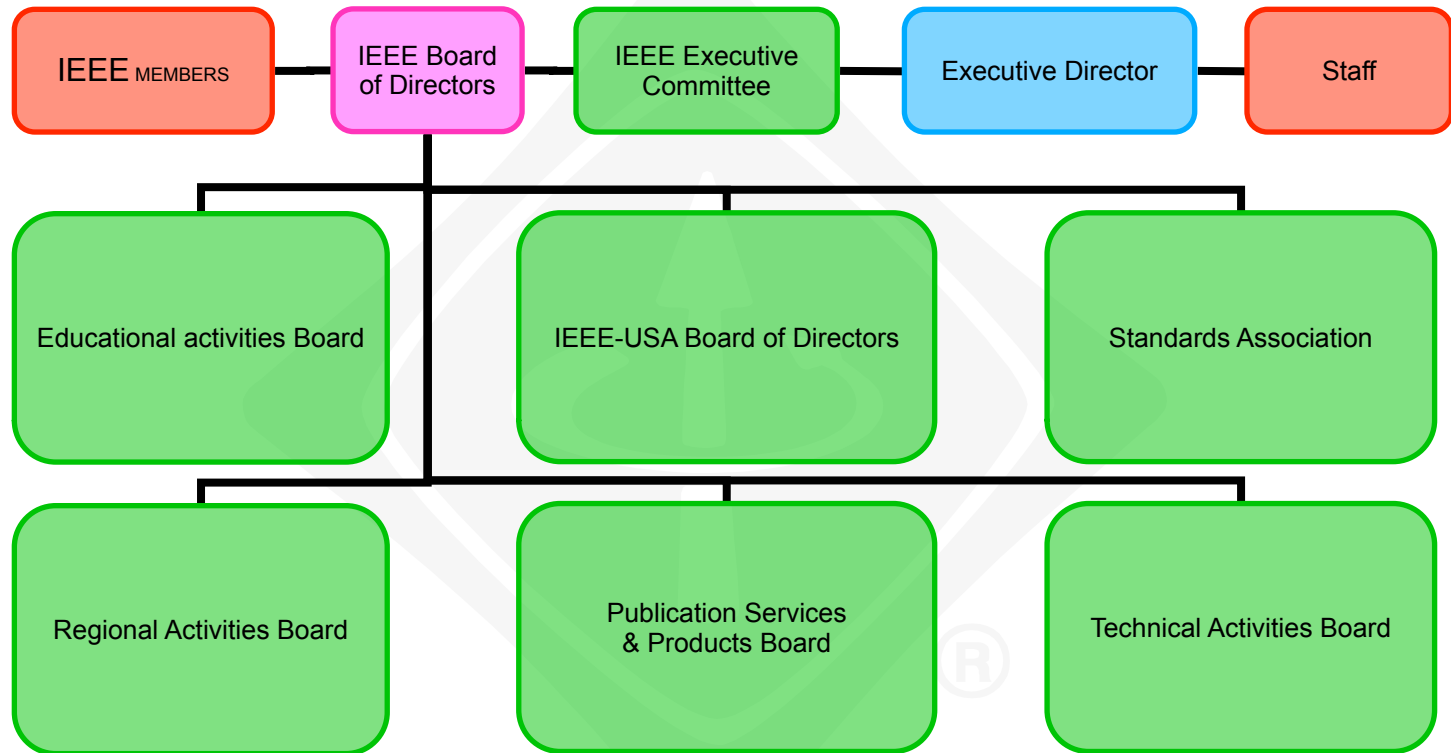
31 December 2006



Membership & Demographics

2006 Rank	Country	2006 Membership
1	UNITED STATES	216,942
2	INDIA	23,683
3	CANADA	16,157
4	JAPAN	12,961
5	UNITED KINGDOM	9,267
6	CHINA - including HONG KONG & MACAU	7,166
7	AUSTRALIA	6,231
8	GERMANY	6,225
9	KOREA	5,387
10	ITALY	4,064

Organisation Chart



Join IEEE & become a Member of Queensland Section

[*www.ieee.org/join*](http://www.ieee.org/join)

Join IEEE

- You make a difference when you join IEEE.
- IEEE membership helps support the IEEE mission of promoting the engineering profession for the benefit of humanity and the profession.
- Membership also enables affordable student membership, funds university program accreditation and helps introduce technology careers to young people around the world.

IEEE Membership

- <http://www.ieee.org/web/membership/Cost/dues.html>
- **IEEE Membership: From 1st January to 31st December**
- **Membership in IEEE's Technical Societies involves additional dues**
- **All IEEE members are given online access to Potential magazine as part of their basic IEEE membership.**

Queensland Section

www.ieee.org/queensland



History

- The Queensland Section was founded in 1985 through the efforts of Profs. Darveniza, Moody & Thiel.
- Prof. Thiel continues to serve to this day.

Structure

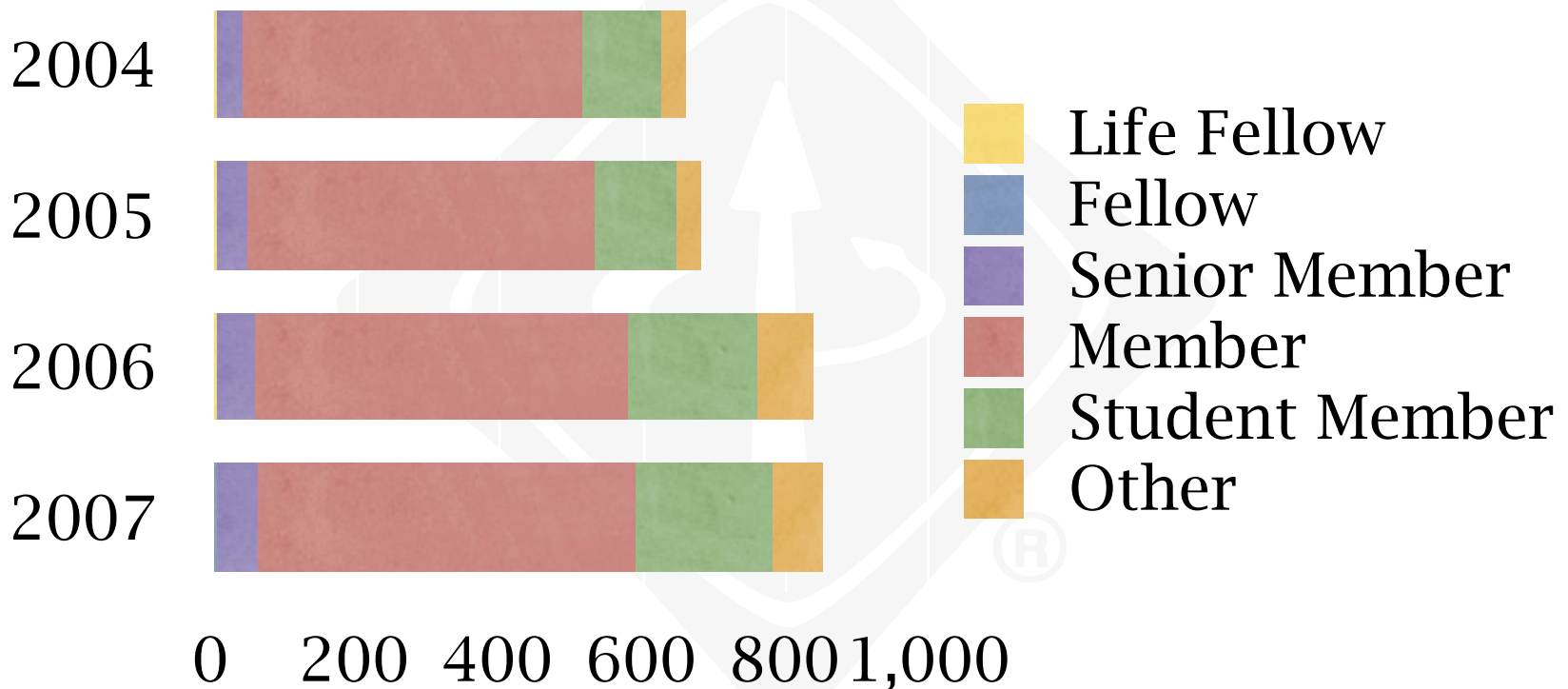
- The Section hosts several Chapters:
 - Computer Society
 - Computational Intelligence
 - Control Systems/Robotics & Automation
 - Microwave Theory & Techniques/Antennas & Propagation
 - Power Engineering
 - Signal Processing/Communications
 - Information Theory (*joint with SA/Vic/NSW/ACT*)

Student & Affinity Groups

- The main universities have student branches:
 - The University of Queensland
 - Queensland University of Technology
 - Griffith University (Nathan & Gold Coast campuses)
 - The University of Southern Queensland
 - Central Queensland University
- In 2006, we established a GOLD affinity group.

Membership

- Membership is growing strongly



- 23% growth from 2005 to 2006!

Photo Album



GOLD: Graduates of the Last Decade

- www.ieee.org/gold
- A new program to promote early careers through IEEE
- Queensland has a new affinity group
- Network, socialise, stay current
- We're looking for a new GOLD committee — we need you!