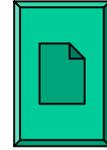


# IEEE Overview



**Costas Stasopoulos, Senior Member IEEE**  
**2009-2010 Secretary, IEEE Region 8**  
**June 2009**

# R8 Overview



- 1 ***Costas Stasopoulos,*      IEEE M'87, SM'00**
- 1     **B.Sc. in Electrical Engineering from Rutgers University in New Jersey USA in 1987**
- 1     **Masters in Business Administration from the Maastricht Business School of Management in 1992**
- 1     **Assistant Area Manager in the Electricity Authority of Cyprus**
- 1     **Cyprus Section Chair 2002-2004**
- 1     **Cyprus Communications Chapter Chair 2006-Present**
- 1     **IEEE Region 8 Secretary 2007-Present**
- 1     **Responsible for IEEE Region 8 Web Page**
- 1     **IEEE Individual Benefits & Services Committee**
- 1     **IEEE Information Technology Strategy Committee**
- 1     **Organized several Conferences, Lectures and Semir**

# WHO WE ARE

- 1 A non-profit organization, IEEE is the world's leading professional association for the advancement of technology.
- 1 The IEEE name was originally an acronym for the Institute of Electrical and Electronics Engineers, Inc.
- 1 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)
- 1 IEEE members worldwide – some **382,400** members in **160** countries at the end of 2008

# IEEE: A Global Community Making a Difference

## The IEEE Vision

To advance global prosperity by:

- 1 **Fostering technological innovation**
- 1 **Promoting IEEE communities world-wide**
- 1 **Enabling members' careers**



# Our History



## AIEE (1884)

- 1 **Founded by American industrialists to develop a skilled workforce; prepare standards for U.S. electrical industries**

## IRE (1912)

- 1 **Founded by radio electronics pioneers**
- 1 **Did not feel fully at home in electric power-oriented AIEE**
- 1 **Differed from the AIEE - positioned at inception to be global**

In 1963 AIEE & IRE combine to form

**Institute of Electrical and Electronics Engineers**

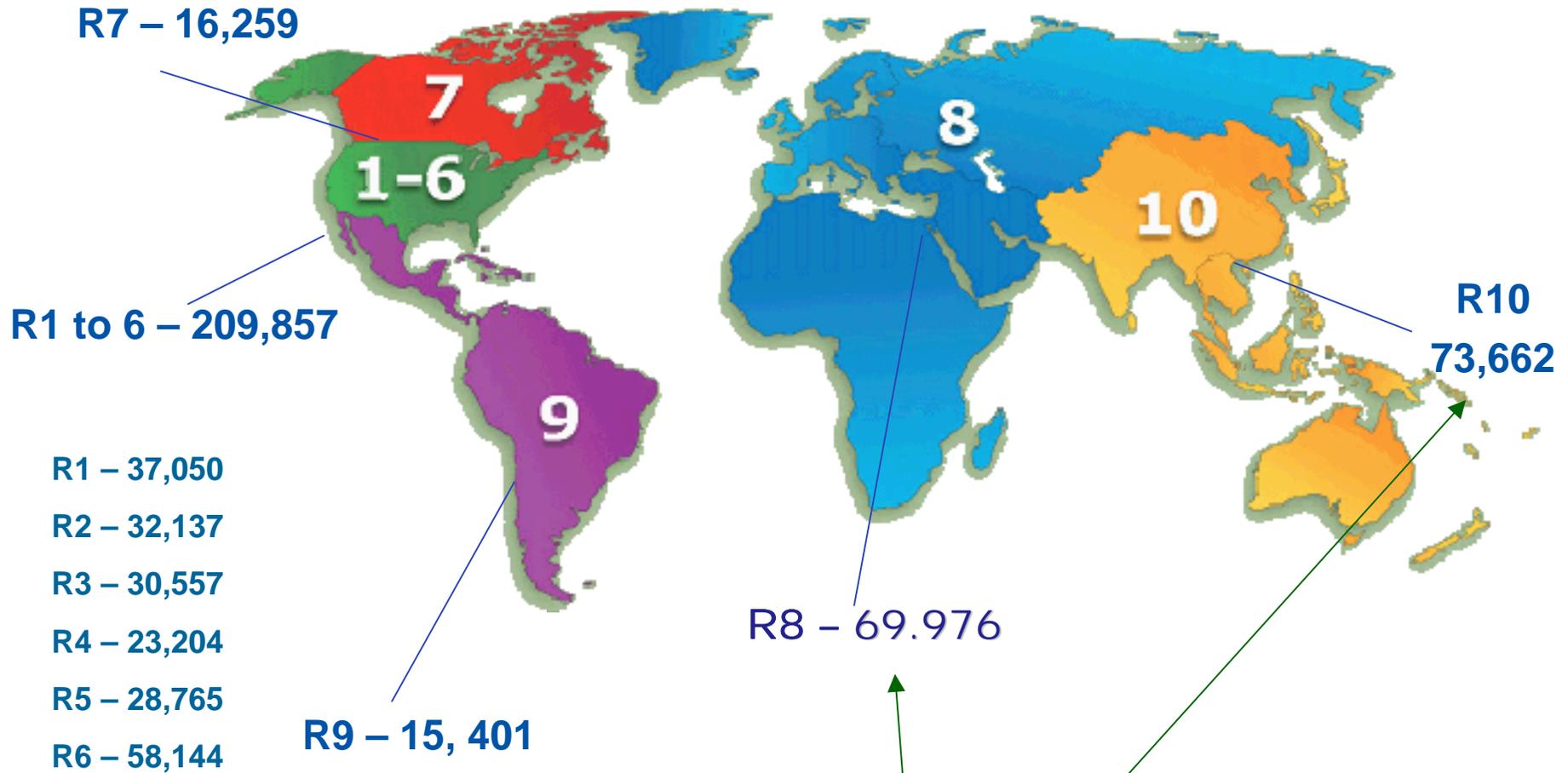


# IEEE Today

- 1 **The world's largest professional society dedicated to the advancement of technology**
- 1 **Creating a level playing field for technical professionals regardless of geography**
- 1 **Enabling technical professionals to distinguish themselves in a globally competitive environment**
- 1 **Promoting the public understanding and appreciation of engineering**
  - 1 **Engineering is an honored profession**
  - 1 **IEEE member contributions improve the quality of life and make the world a better place**

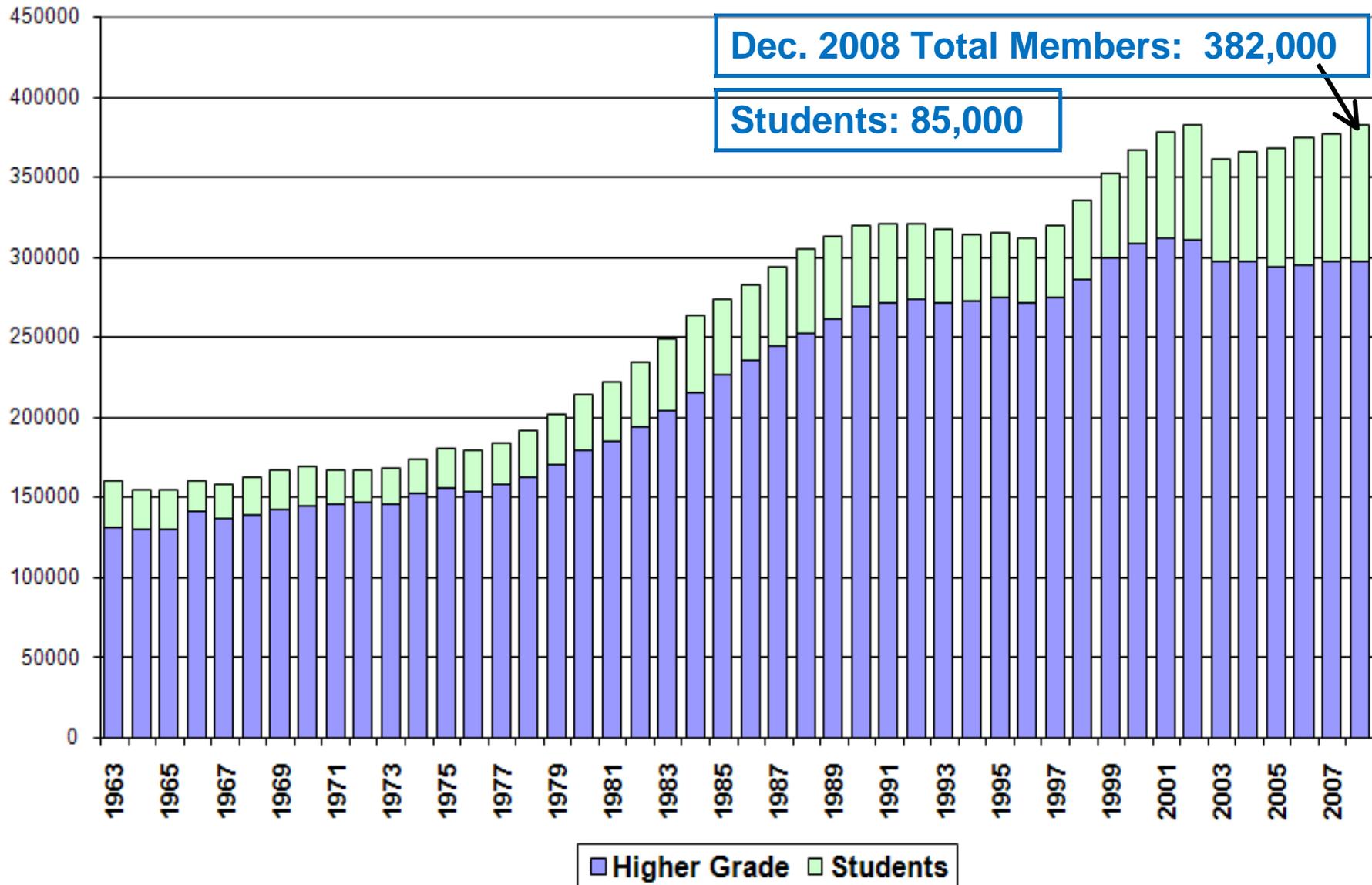
# IEEE Membership By Region

December 2008



Reflecting the global nature of IEEE, R8 and R10 are now the two largest IEEE Regions

# Historical IEEE Membership Trends - 1963 to 2008



## IEEE is organized into:

- 1 **324** local sections in **10** geographic regions;
- 1 **1,784** chapters comprised of local members with similar technical interests;
- 1 **38** societies and **7** technical councils;
- 1 **1,616** student branches at colleges and universities in **80** countries;
- 1 **452** student branch chapters.



# Organization of IEEE

## IEEE Executives

The voting membership of IEEE elects a new **president** each year, who serves for three years – first as **President-elect**, then as **President and CEO**, and finally as **Past President**.

IEEE presidents also serve on the three top-tier IEEE governing bodies:

- **IEEE Board of Directors**
- **IEEE Executive Committee**
- **IEEE Assembly**

Elections are held annually for top IEEE officers.

## IEEE Major Boards

Six subordinate boards govern major areas of IEEE interest:

- **Educational Activities**
- **IEEE-USA**
- **Publication Services and Products Board**
- **Member and Geographic Activities**
- **Standards**
- **Technical Activities**

Each has an elected volunteer leader.

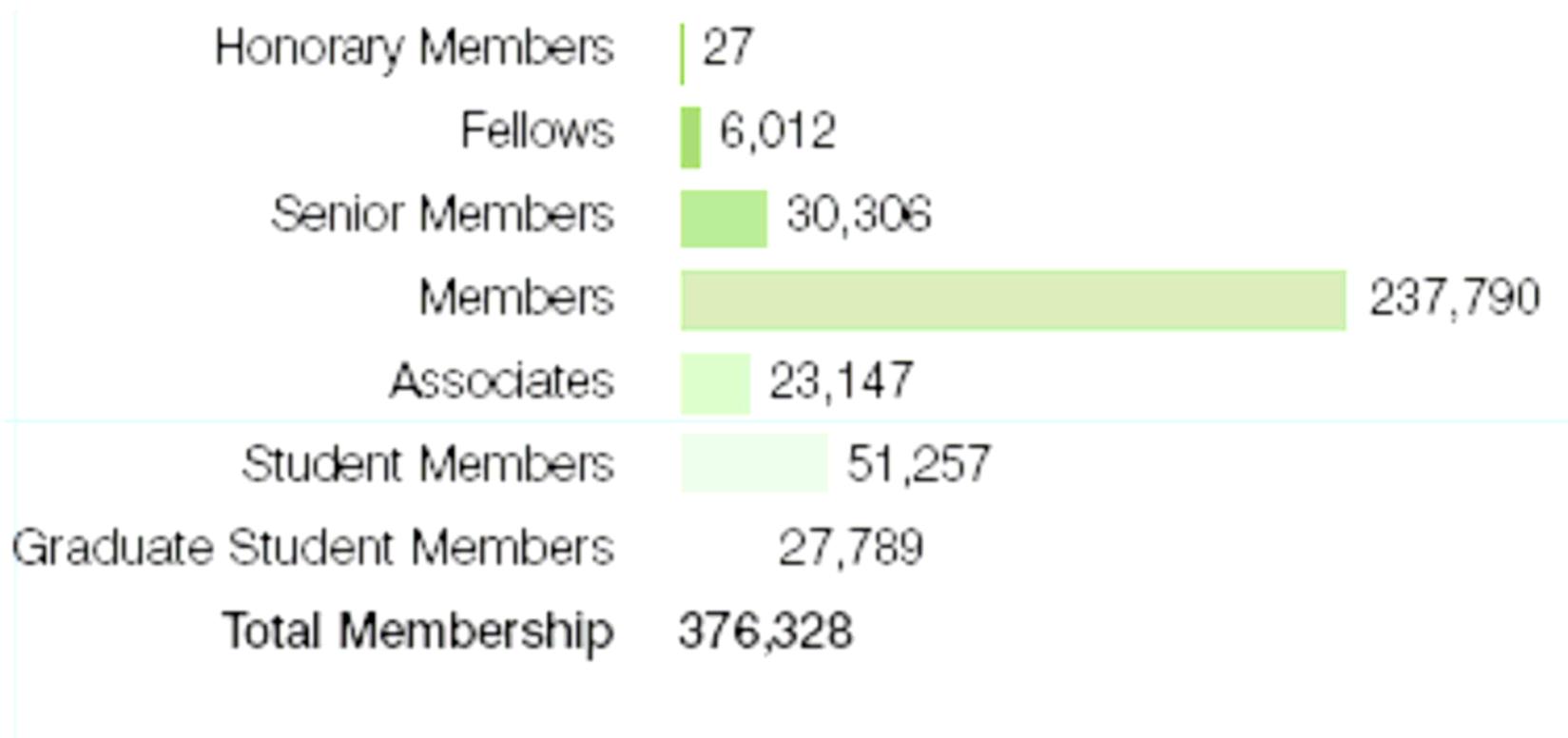
## IEEE Committees

There are currently **23 Standing** and **25 AdHoc Committees**.

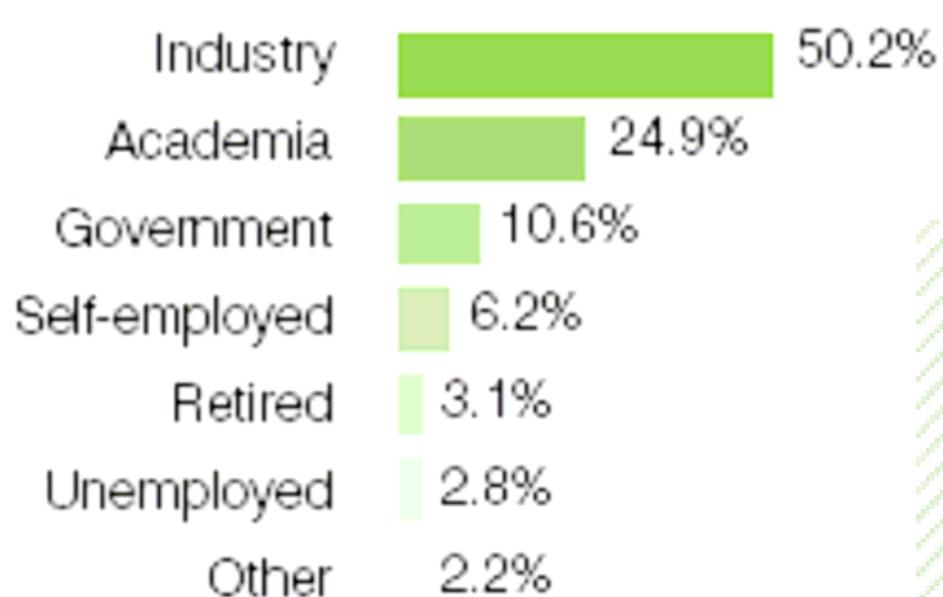
## 10 Technical Divisions

<b>Division I</b>	<b>Circuits and Devices</b>
<b>Division II</b>	<b>Industrial Applications</b>
<b>Division III</b>	<b>Communications Technology</b>
<b>Division IV</b>	<b>Electromagnetics and Radiation</b>
<b>Division V</b>	<b>Computer</b>
<b>Division VI</b>	<b>Engineering and Human Society</b>
<b>Division VII</b>	<b>Energy and Power Engineering</b>
<b>Division VIII</b>	<b>Computer</b>
<b>Division IX</b>	<b>Signals and Applications</b>
<b>Division X</b>	<b>Systems and Control</b>

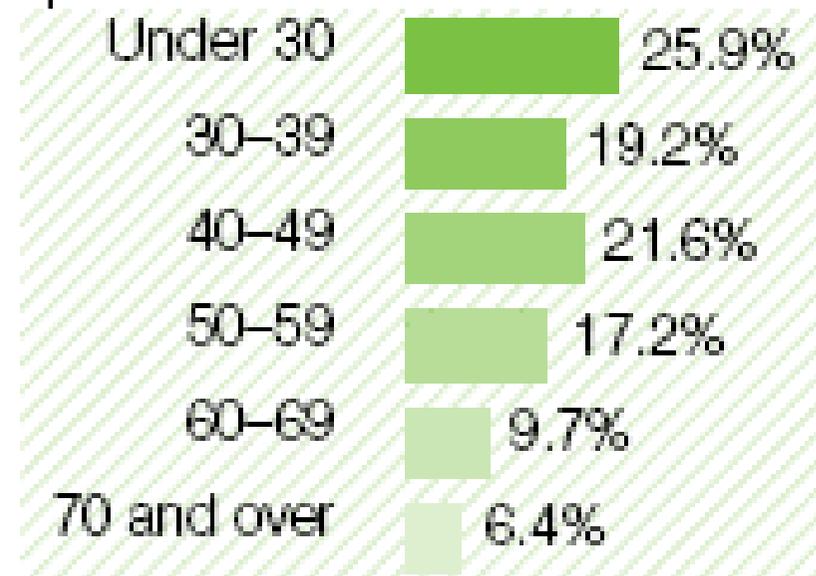
# Membership Status



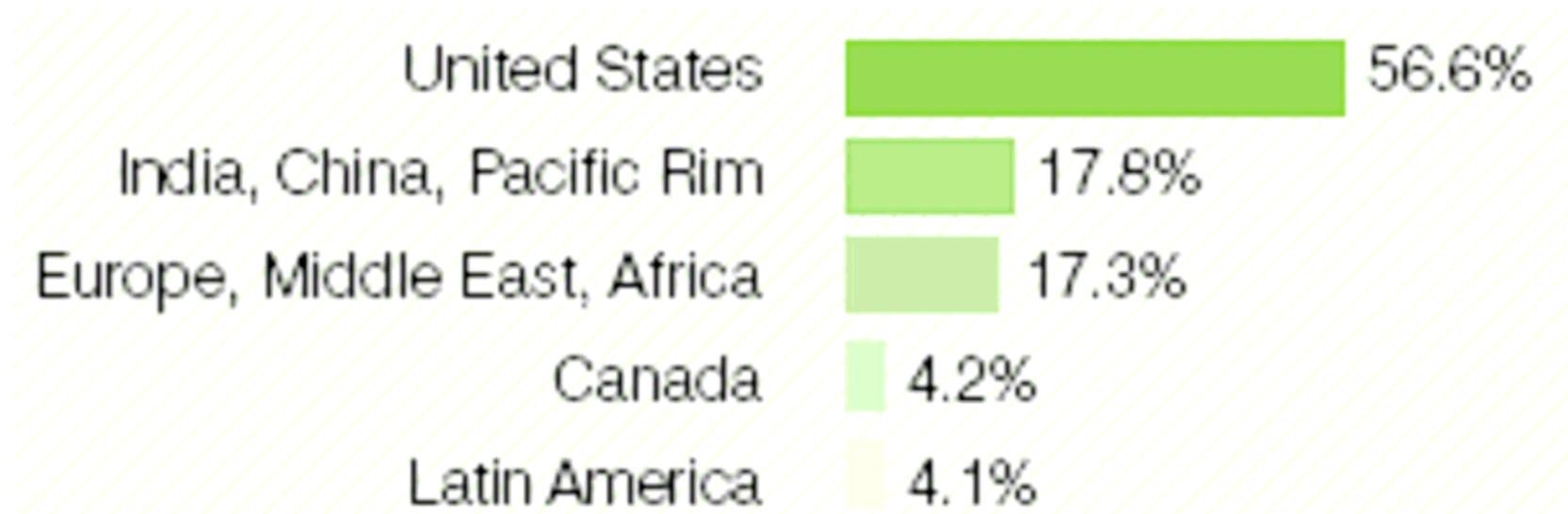
# Members in Global Workforce



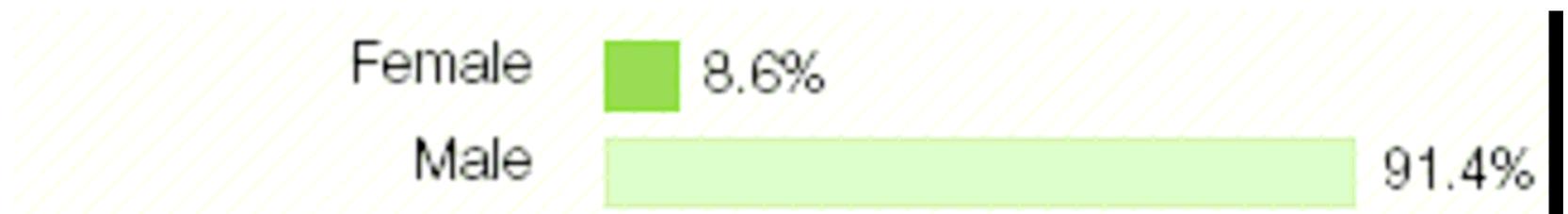
## Ages of Members



## Geographic Distribution



## Gender



# IEEE Fosters Technological Innovation: Publications -- IEEE *Xplore* Digital Library

The screenshot shows the IEEE Xplore Digital Library homepage. At the top, there is a navigation bar with links for Home, Login, Logout, Access Information, Alerts, Sitemap, and Help. Below this, a banner displays the IEEE Xplore logo and the text 'RELEASE 2.1'. A secondary navigation bar includes '1,194,402 documents online', 'BROWSE', 'SEARCH', 'IEEE XPLORE GUIDE', and 'SUPPORT'. The main content area is divided into several sections: 'Welcome to IEEE Xplore' with a brief description of the platform; a 'Login' section with fields for Username and Password; a 'Browse' section with links to Journals & Magazines, Conference Proceedings, Standards, and Books; and a 'Basic Search' section with a search input field and links for Advanced Search, Author Search, and CrossRef Search. Below these are four smaller boxes: 'Content Updates', 'Alerts', 'Top 100 Documents', and 'Books'. The footer contains a 'Cookies Enabled' notice, a 'Help' link, and contact information for IEEE.org, along with a copyright notice for 2005.

1 Access through IEEE *Xplore* platform

1 1.6+ million peer-reviewed, full-text articles online

1 1,100 customers from corporations, academic institutions and government

1 Over 1 million technical professionals access this repository every month

1 Average IEEE *Xplore* use:

Over 5 million downloads a month

# IEEE content is highly regarded

- 1 **Quality information from an authoritative source**
- 1 **Technological innovations often appear first in IEEE publications**
- 1 **Breakthrough ideas presented first at IEEE conferences**
- 1 **IEEE subscribers save time and money by not “reinventing the wheel”**
- 1 **More efficient R&D helps accelerate time to market**
- 1 **Depth and range of IEEE content is increasing -- not just EE**

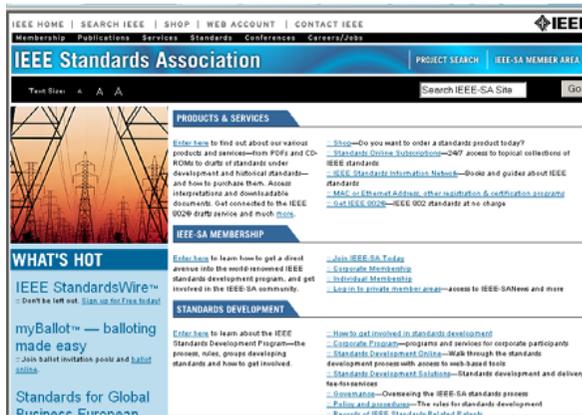
# IEEE Fosters Technological Innovation: Conferences

- 1 IEEE annually sponsors and cosponsors more than **600** conferences worldwide
- 1 Involved in the technical programming of over 400 additional conferences.
- 1 Approximately **150,000** attendees overall
- 1 First-hand information on the latest developments from leaders in their fields
- 1 More than 3,000 annual technical meetings, and other local events
- 1 Opportunities to meet leaders in technical interest areas



# IEEE Fosters Technological Innovation: A World Leader in Standards Development

- 1 Standards are a balanced blend of technical alternatives, economic needs, and global requirements
- 1 Standards create a level playing field for business competition
- 1 Over **900** active standards; more than **400** in development
- 1 Newest areas: Wireless LAN/MAN, Broadband Over Power Lines, Nanotechnology,...



- Increased global adoption of IEEE standards through:
  - IEC
  - ISO
  - ITU

# Leading Companies Worldwide Depend on IEEE

- 1 **8 of Top 10 Semiconductor companies**
- 1 **8 of Top 10 Aerospace companies**
- 1 **8 of Top 10 Networking & Communication  
Equipment companies**
- 1 **6 out of Top 7 Computer companies**
- 1 **Top 3 Telecommunications companies**
- 1 **Top 3 Automotive companies**
- 1 **#1 company in Computer Software**
- 1 **Japan's "Big Five" Electronics companies**

Source: Fortune magazine,  
Top 1,000 Companies Worldwide 2007

# Emerging international markets for IEEE products

## 1 China

- 1 600 foreign-owned R&D centers in 2005 vs. 400 in 2002
- 1 2K higher education institutes, 3.35M higher education students
- 1 1<sup>st</sup> in cell phone users

## 1 India

- 1 software development, knowledge-based industries, outsourcing of services
- 1 increasing output of trained engineering and IT human power

## 1 Brazil

- 1 foreign direct investment in services: banking, electricity, and telecommunications

## 1 Russia and FSU countries

- 1 200,000+ science grads a year
- 1 excellent technical education, Students well-trained in computer science, physics, mathematics, and engineering

## 1 Middle East

- 1 Growing economy and energy industry
- 1 Increasing number of engineers



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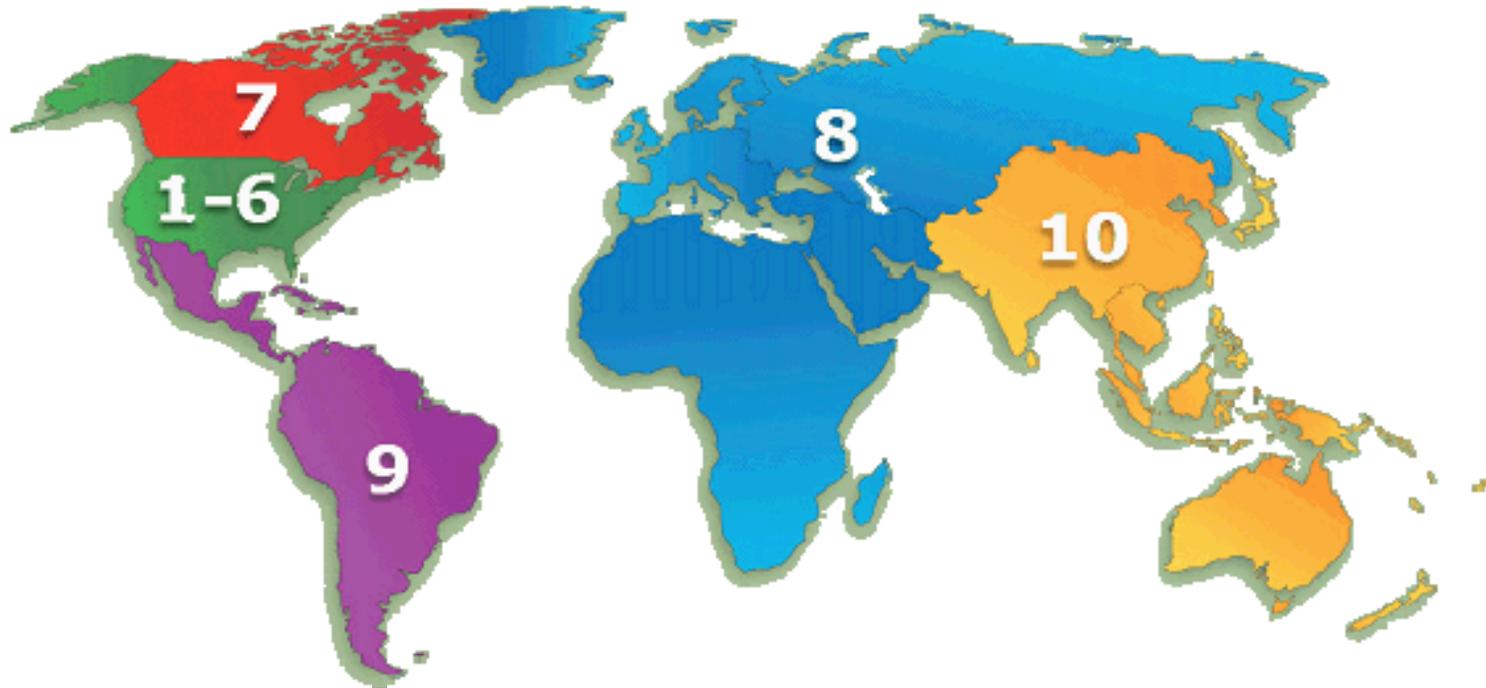
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# Region 8



# Region 8 - facts



- | Members **69.976**  
**(Jan 2009)**
- | Sections **56**
- | **basically compatible with countries, exceptions: Russia and Saudi Arabia**
- | **different history, traditions, size**
- | **big mosaic of cultures and technical backgrounds**
  
- | Chapters **448**  
**(April 2009)**
  
- | Student Branches **305**  
**(April 2009)**

Region 8  
Director

**Józef Modelski**

**Sends you his warmest  
wishes for the success  
of the Student Branch  
Congress!!**





**Region 8 Committee at Sections Congress, Quebec, September 2008**

# IEEE Region 8 Management

## Voting members

- 1 **IEEE Region 8 Section Chairs - 56**
- 1 **The IEEE Region 8 Operating Committee - 8**

## Non-voting members

### **Appointed Members - 15**

- 1 **Subcommittees (7 Standing, 5 AdHoc)**



**Region 8 Committee Meeting, Venice, April 2009**

# IEEE Region 8 Management cont.

## Operating Committee (OpCom)

**Director**

Jozef Modelski

**Director-Elect**

Marko Delimar

**Past-Director**, V/C Strategic Planning

Jean-Gabriel Rémy

**Secretary**

Costas Stasopoulos

**Treasurer**

Brian Harrington

**V/C Membership Activities**

Pilar Molina Gaudo

**V/C Student Activities**

Eva Lang

**V/C Technical Activities**

Rami Mushcab

# Main events 2009-2010

## Conferences

<b>EuroCon</b>	<b>Saint-Petersburg, Russia, 18-23 May 2009</b>
<b>AfriCon</b>	<b>Nairobi, Kenya, 23-25 September 2009</b>
<b>MeleCon</b>	<b>Valletta, Malta, April 2010</b>
<b>EnergyCon</b>	<b>Manama, Bahrain, 18-20 December 2010</b>

## Student Branch and GOLD Congress 2010

## IEEE 125th Anniversary Celebration (main)

- **Munich, April 27th, 2009**
- **London, October 6th, 2009**

# Main Student Congresses / Conferences

SBC 2010

Region 8 Student Branch and GOLD Congress

in 2009



**Middle East Student Branch Congress**  
Amman, Jordan, 11-14th May 2009



**International Youth Conference on Energetics**  
Budapest, Hungary, 4-6th June 2009



THANK YOU !