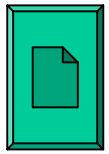
IEEE Overview

Costas Stasopoulos, Senior Member IEEE

2009-2010 Secretary, IEEE Region 8

June 2009

R8 Overview



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

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WHO WE ARE

- **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)**
- **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:

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

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Our History

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AIEE (1884)

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

IRE (1912)

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

In 1963 AIEE & IRE combine to form

Institute of Electrical and Electronics Engineers

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IEEE Today

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

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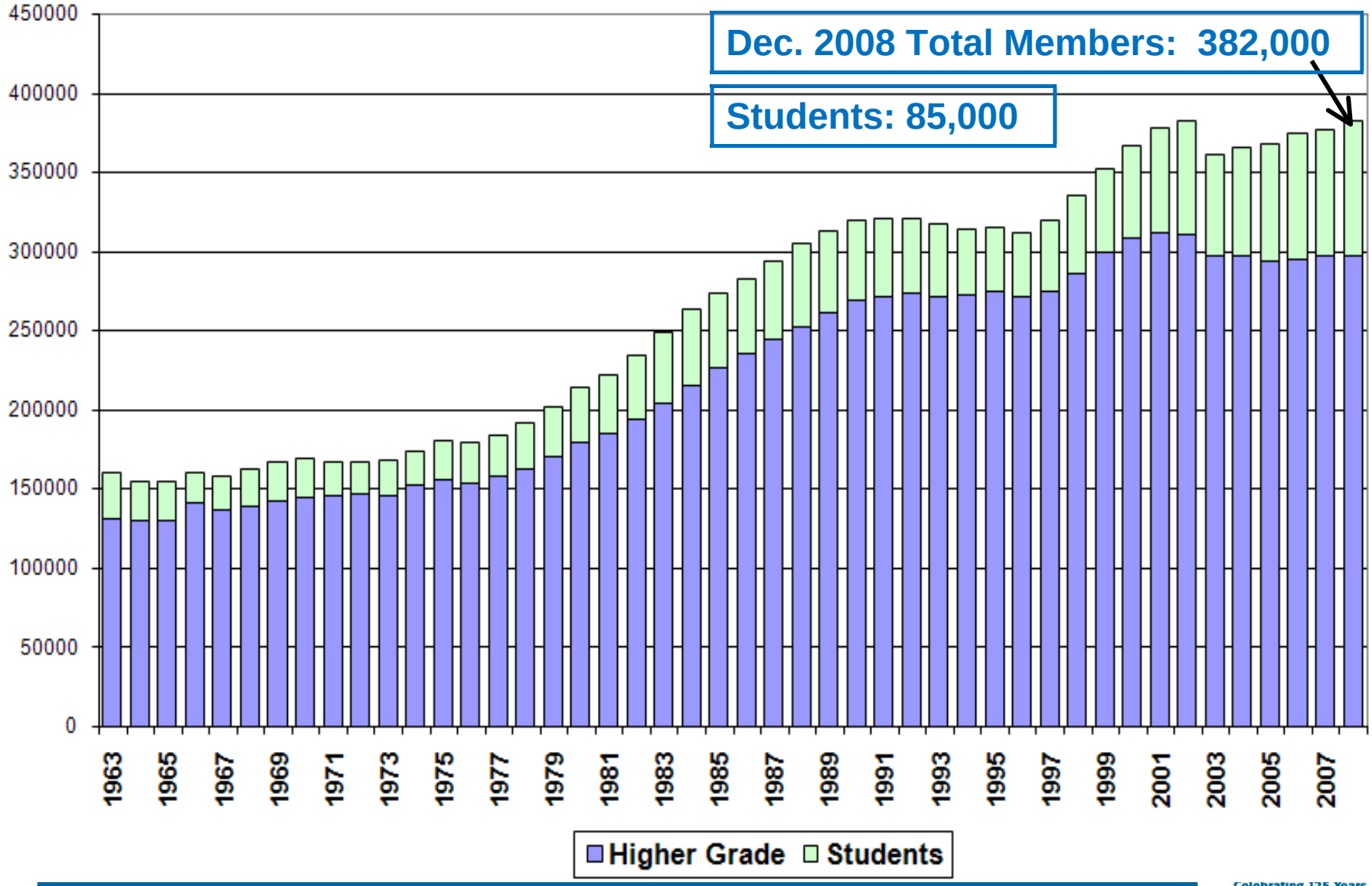
Historical IEEE Membership Trends - 1963 to 2008



IEEE is organized into:

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

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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.

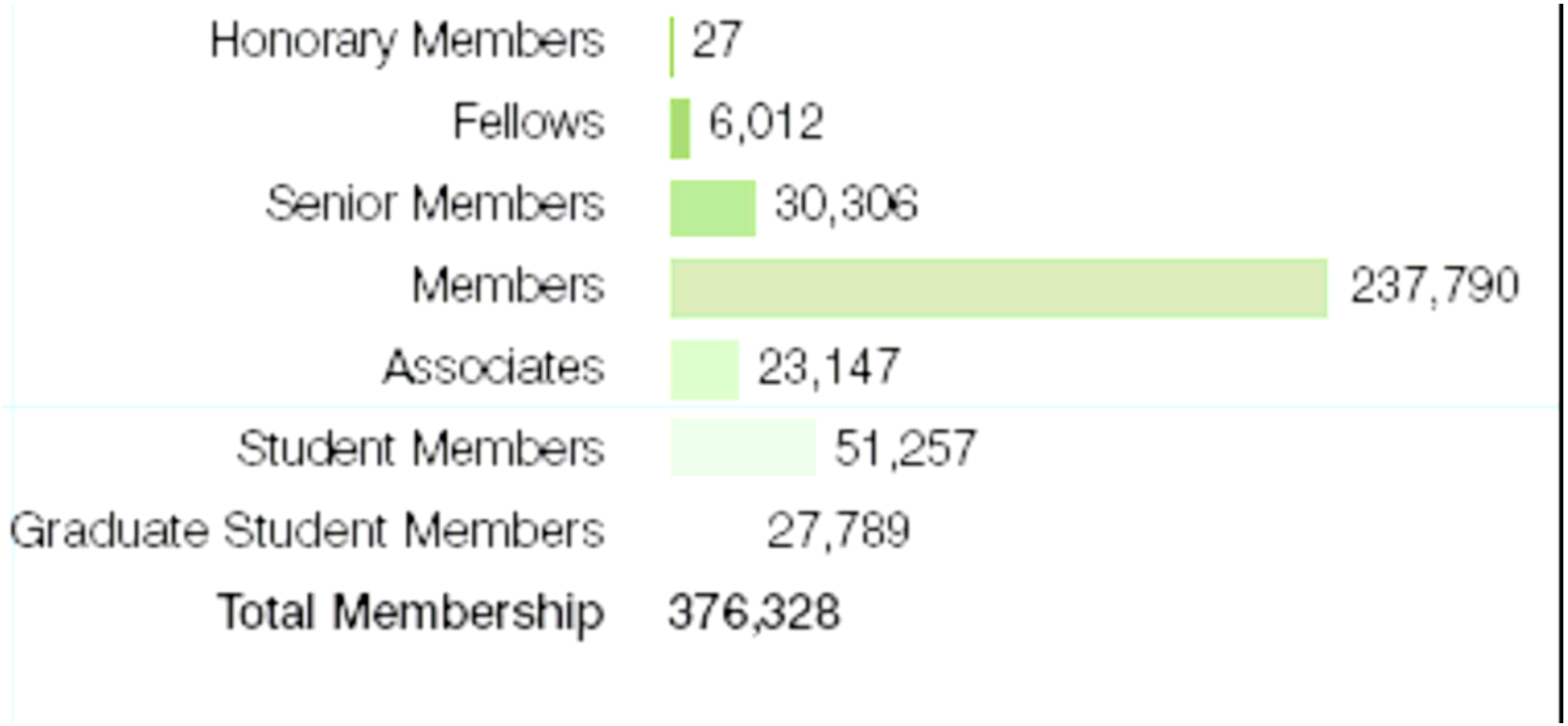
IEEE Committees

There are currently 23 Standing and 25 AdHoc Committees.

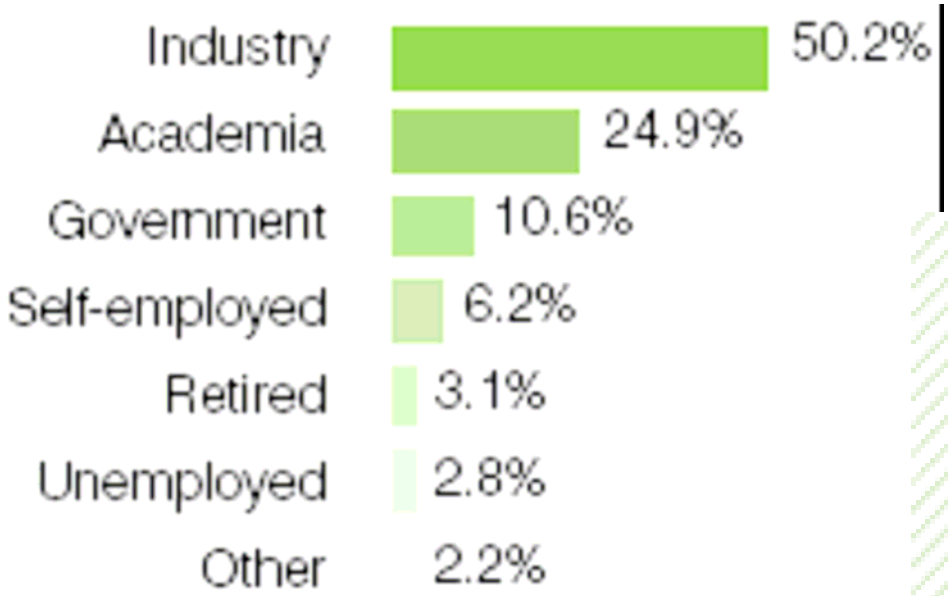
10 Technical Divisions

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

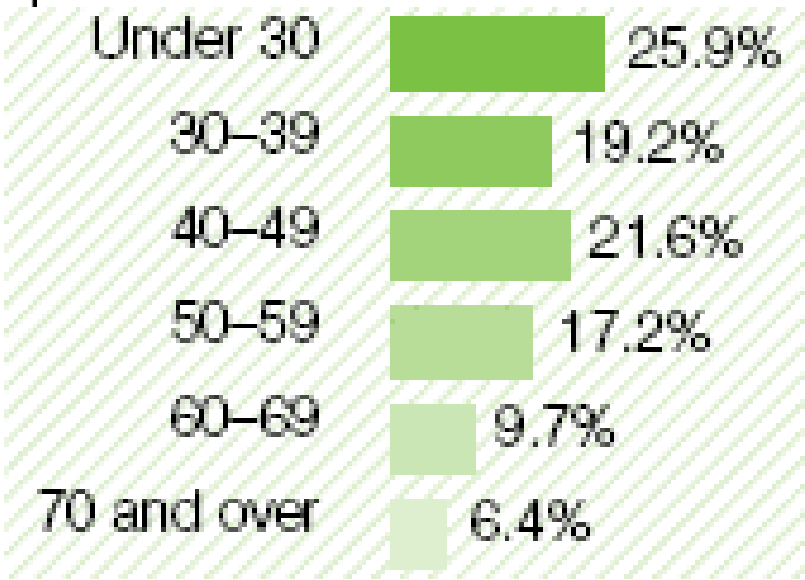
Membership Status



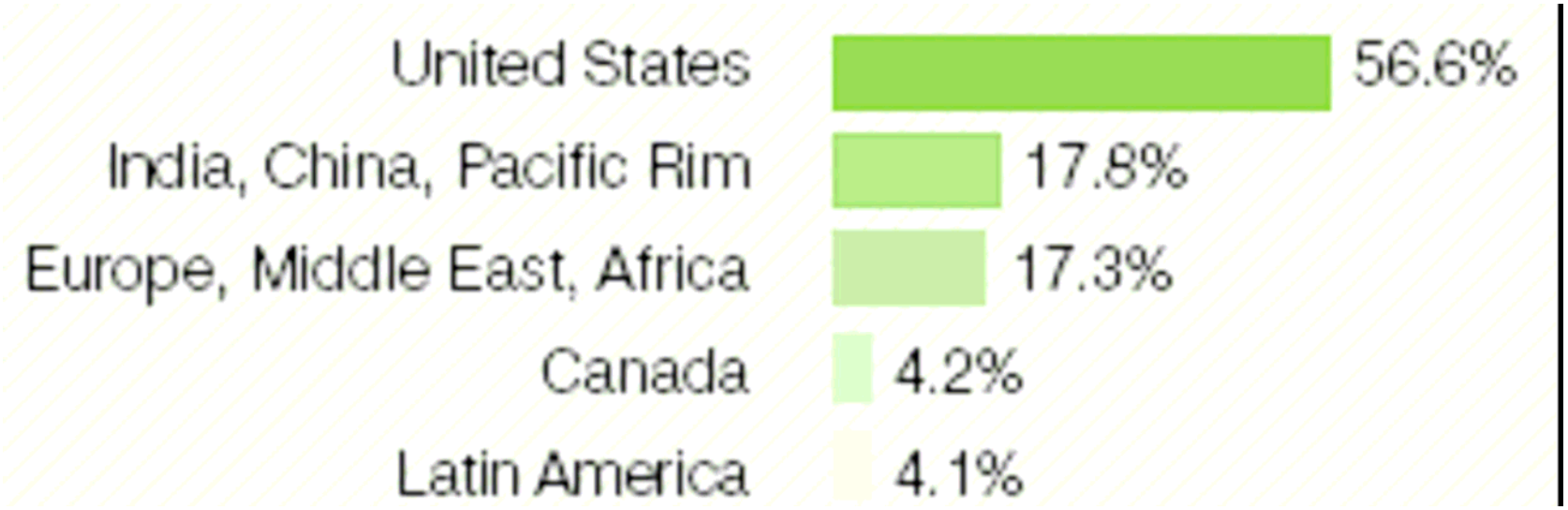
Members in Global Workforce



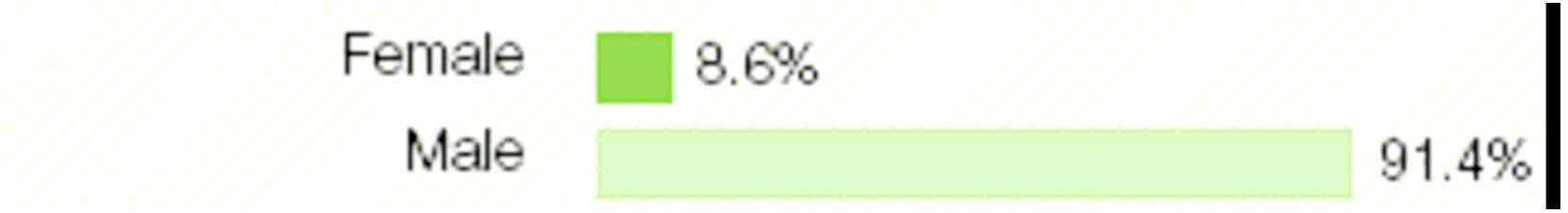
Ages of Members



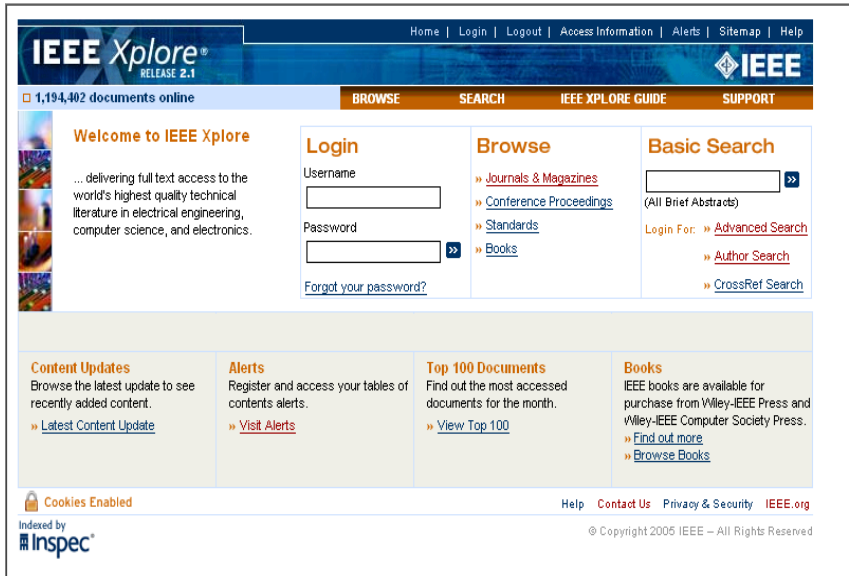
Geographic Distribution



Gender



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



- **Access through IEEE *Xplore* platform**
- **1.6+ million peer-reviewed, full-text articles online**
- **1,100** customers **from corporations, academic institutions and government**
- **Over 1 million** technical professionals **access this repository every month**
- **Average IEEE *Xplore* use:**

  Over 5 million downloads a month

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IEEE content is highly regarded

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

IEEE Fosters Technological Innovation: Conferences

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

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IEEE Fosters Technological Innovation: A World Leader in Standards Development

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

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

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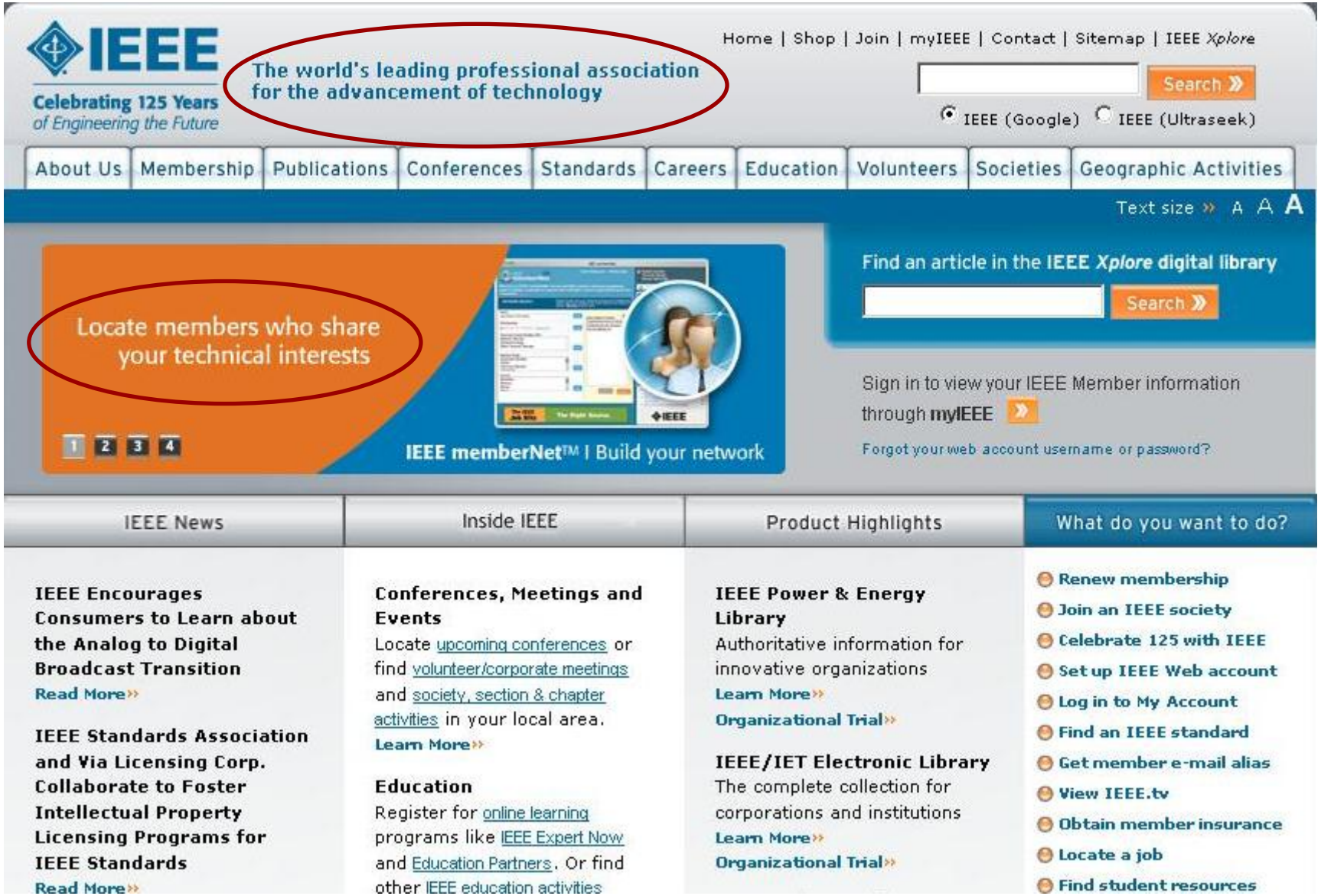
Leading Companies Worldwide Depend on IEEE

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

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

Emerging international markets for IEEE products

- China
  - 600 foreign–owned R&D centers in 2005 vs. 400 in 2002
  - 2K higher education institutes, 3.35M higher education students
  - 1st in cell phone users
- India
  - software development, knowledge-based industries, outsourcing of services
  - increasing output of trained engineering and IT human power
- Brazil
  - foreign direct investment in services: banking, electricity, and telecommunications
- Russia and FSU countries
  - 200,000+ science grads a year
  - excellent technical education, Students well-trained in computer science, physics, mathematics, and engineering
- Middle East
  - Growing economy and energy industry
  - Increasing number of engineers



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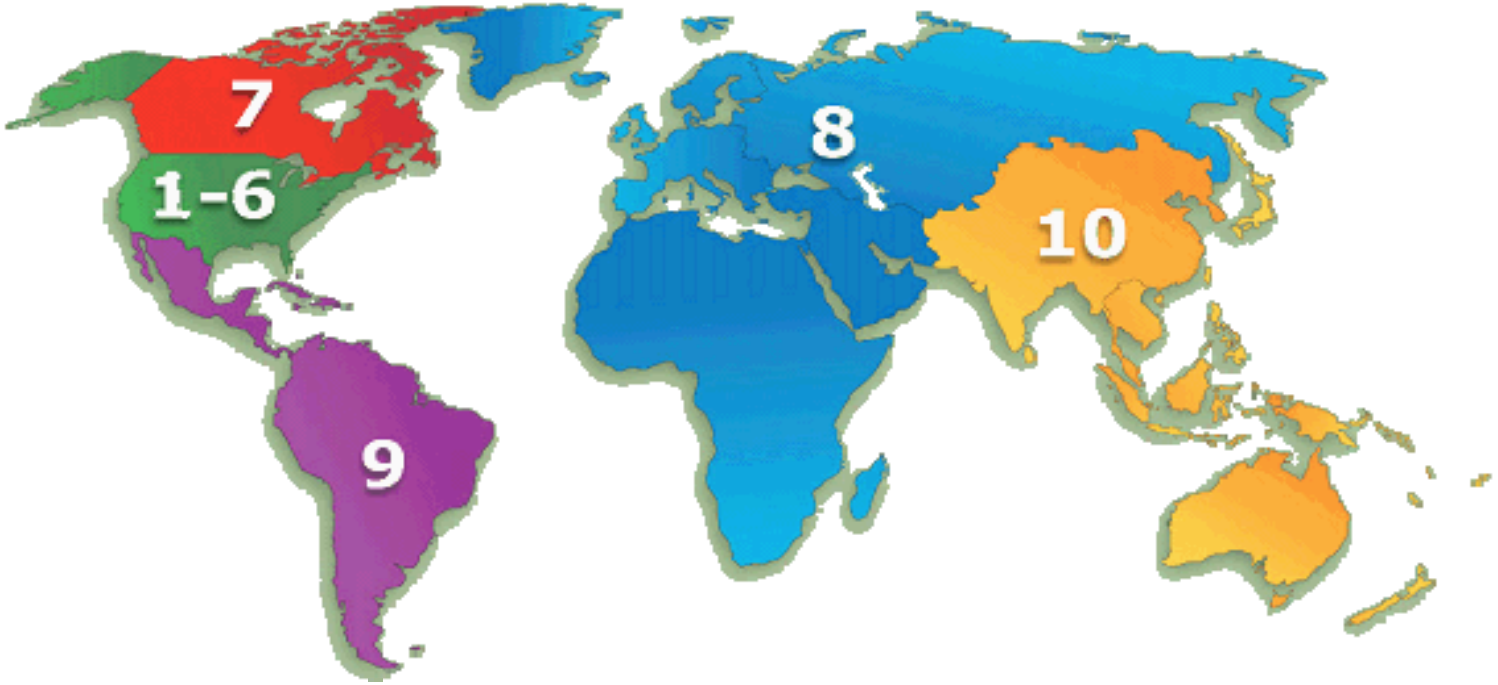
Region 8



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)

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Region 8 Director

Józef Modelski

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

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Region 8 Committee at Sections Congress, Quebec, September 2008

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IEEE Region 8 Management

Voting members

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

Non-voting members

Appointed Members - 15

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

Region 8 Committee Meeting, Venice, April 2009

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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

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

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

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THANK YOU !

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