



Institute of Electrical and Electronic Engineers

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IEEE Director, Division X
Sr. Past President, SMC Society
December 14, 2008**

Overview

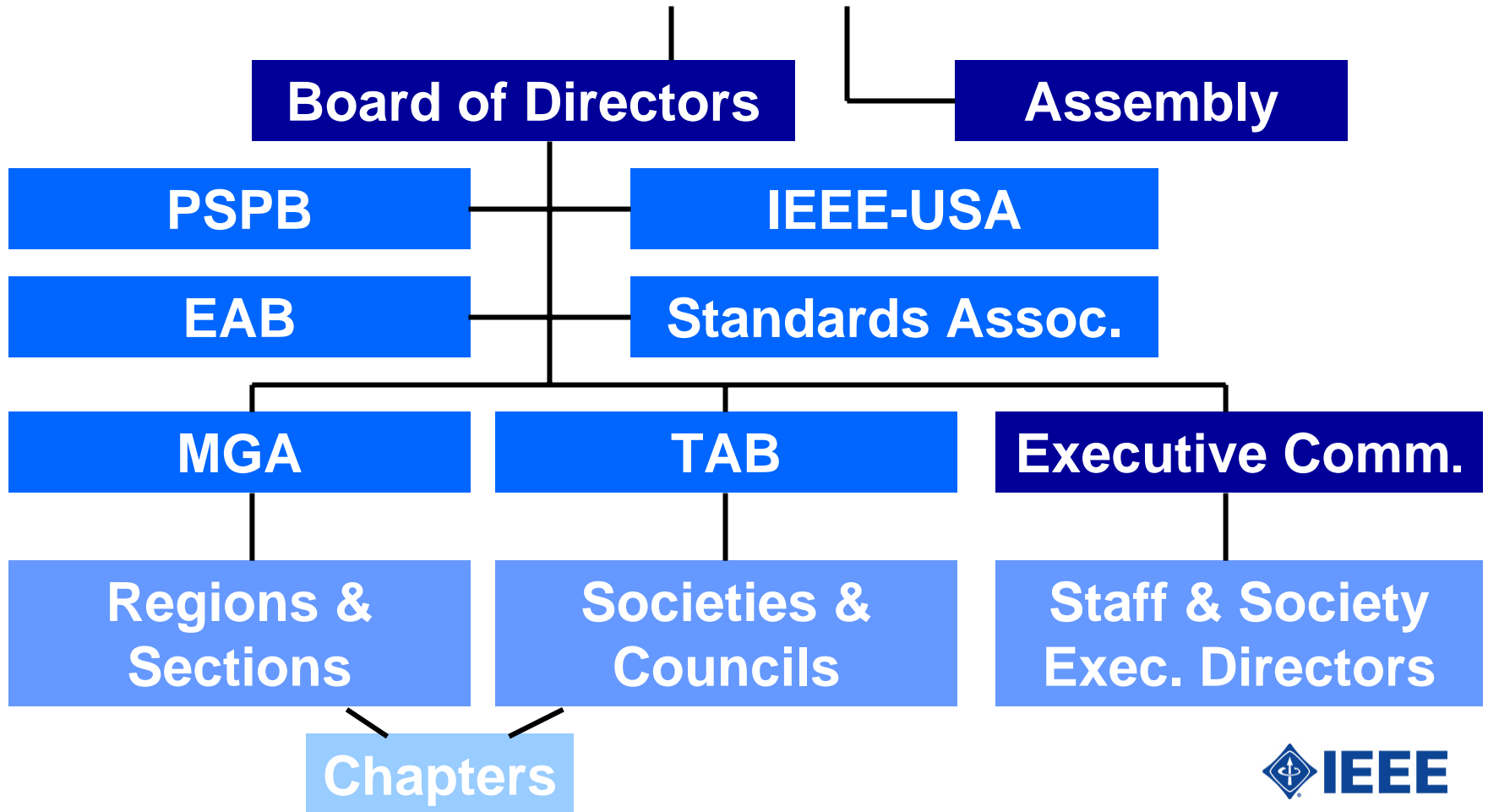
IEEE is the largest professional society dedicated to the advancement of technology

- 375,000 members
 - 80,000 student members
 - 160 countries
-
- Annually sponsors and cosponsors 900 conferences worldwide
 - Publishes 30% of the world's literature in electrical and electronics engineering and computing
 - Offers 400 active industry standards
 - Budget: ~ US\$300M, Reserves ~ US\$220M

IEEE Organization

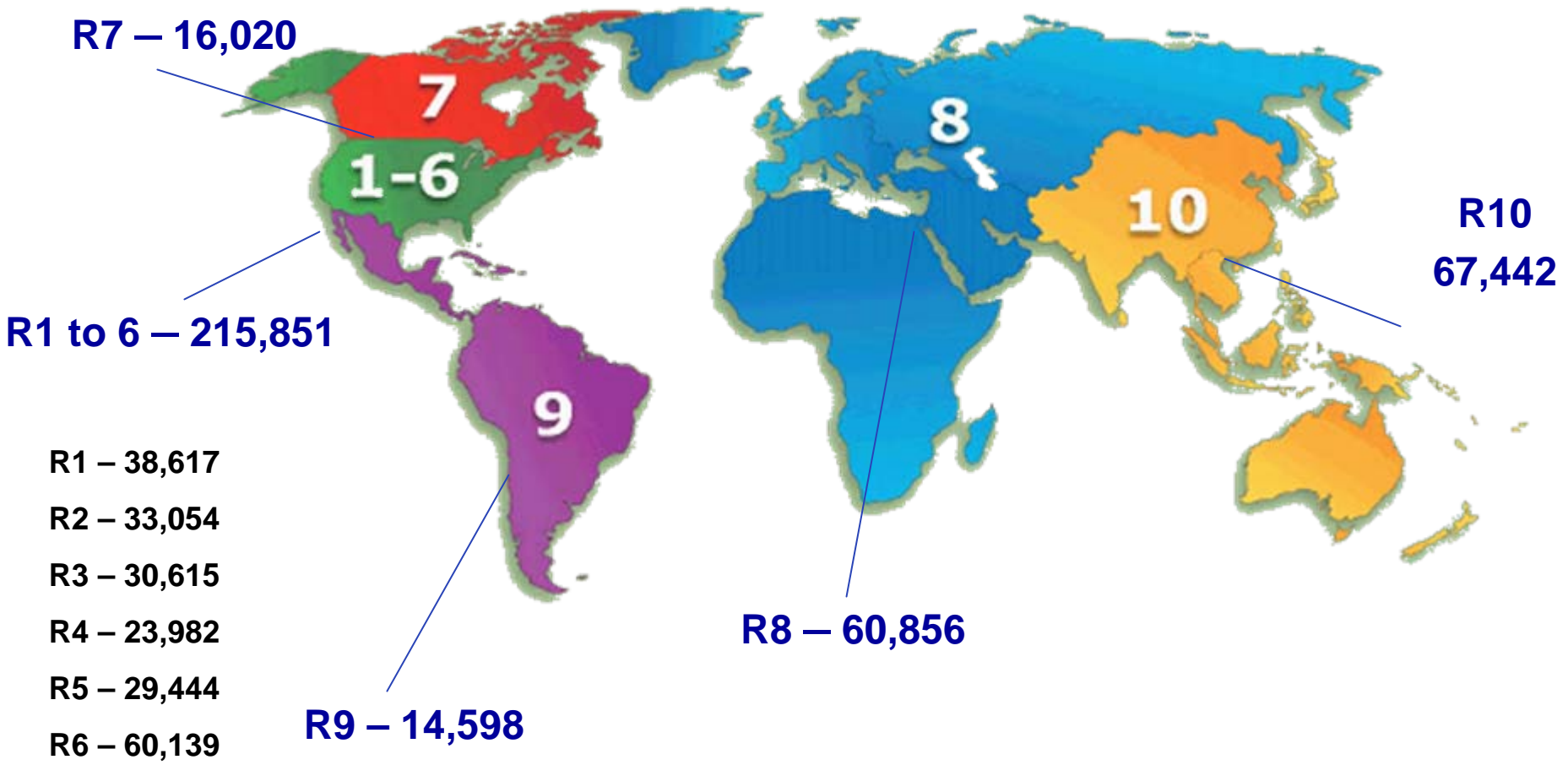


MEMBERS



IEEE Membership By Region

December 31, 2006



Board of Directors

- Voting Members:
 - 3 Presidents (past, present, future)
 - 1 Treasurer
 - 1 Secretary
 - 10 Division Directors *
 - 10 Region Directors
 - 6 Board Vice Presidents
- 31 voting members

Board of Directors

- Governing body of the IEEE
 - ultimate responsibility for IEEE operation
- Meets 3 times per year
- Delegates many responsibilities, allowing major boards to operate semi-autonomously
- Approves the IEEE budget, responsible for finances, and owns the reserves

Technical Activities Board

- TAB Chair (VP - Technical Activities)
- TAB Vice Chair (VP-elect Technical Activities)
- Past Chair (Past VP Technical Activities)
- Treasurer
- Secretary (non-voting)
- **10 Division Directors**
- **44 Society & Technical-Council Presidents**
- TAB Periodicals Committee Chair
- TAB/PSPB Chair
- IEEE Conferences Committee Chair
- Liaison Reps (non-voting)

→ 61 voting members

Member & Geographic Activities Board

- Mission is to serve the needs of members by maintaining, enhancing, and supporting the geographic units of IEEE
- Previously called Regional Activities Board
- Responsible for membership and member development
- Sections report to MGAB

Publication Services and Products Board (PSPB)

- Oversees policy
 - Information related products and services
 - Policies for quality, copyright and IP issues, publishing technical standards, etc.
- Provides support services
 - Publishing transactions, magazines, newsletters
 - IEEE Xplore
- Oversees IEEE-wide products
 - Proc. of the IEEE, IEEE Spectrum and The Institute
 - Electronic Library (IEL), Member Digital Library

Educational Activities Board (EAB)

- Policies and programs to serve IEEE members in educational pursuits, the engineering and scientific community, and the general public
 - Educational activities of the IEEE, Continuing education
 - Accreditation activities and reps to accreditation bodies
 - Pre-university programs
 - Represents IEEE in engineering education
- IEEE interface in education-related matters with external bodies, e.g., ABET, CAEB
- Responsible for administration of the annual assessment paid to ABET, Inc.

Standards Association

- Constituency
 - Individual (6675) and Corporate (74) Members
 - Thousands of stakeholder participants, engaged based on standards under development
- Technical Center of standards for
 - Networks-wired and wireless
 - Energy and electric power
 - Small portable batteries
 - ...

IEEE-USA

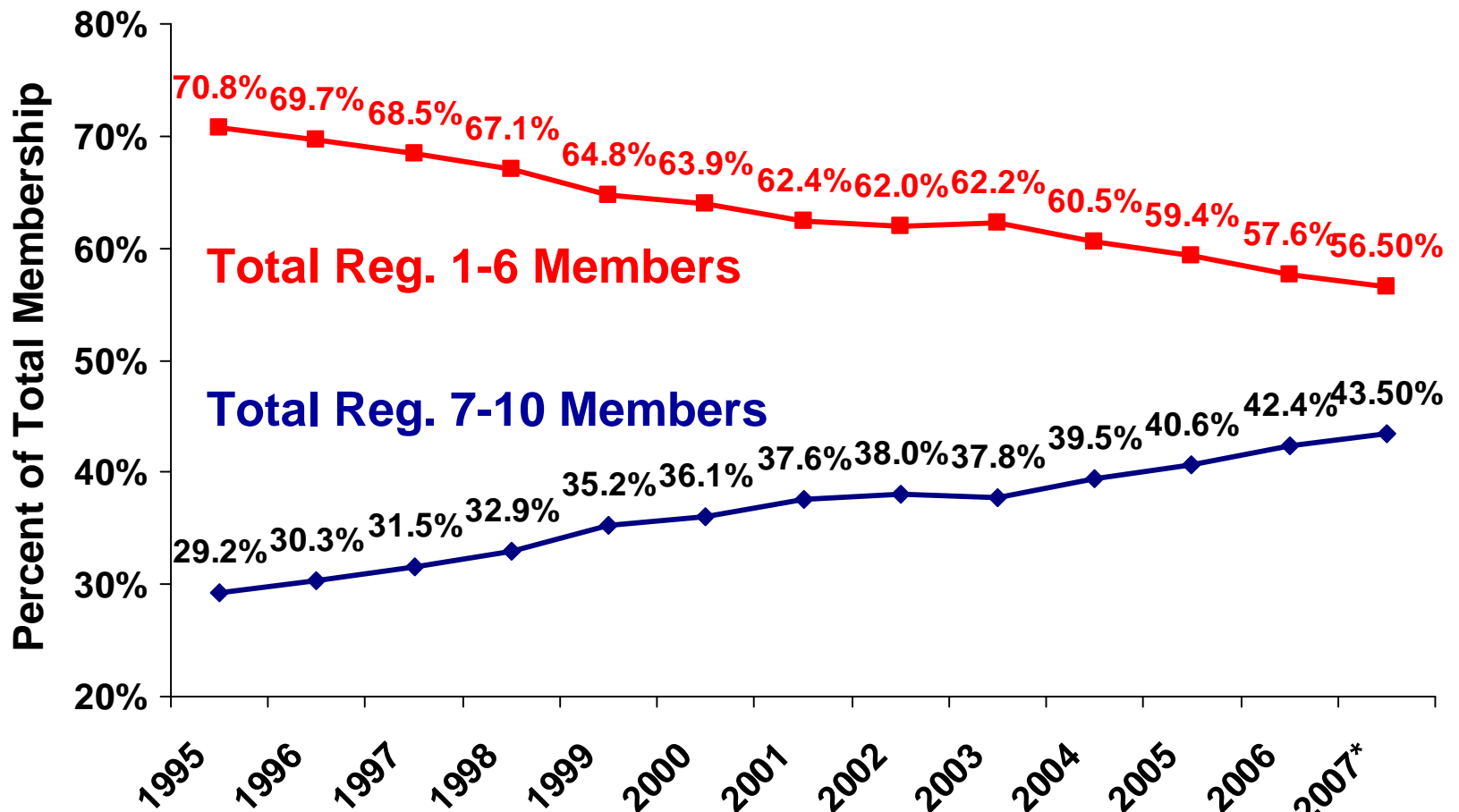
- Recommends policies and implements programs specifically intended to serve and benefit members, engineering professionals, and general public in USA
- Represents professional interests of IEEE before U.S. governmental bodies
- Programs
 - Career/Member Services
 - Professional Activities
 - Government Relations
 - Communications
 - Public Awareness

Division X

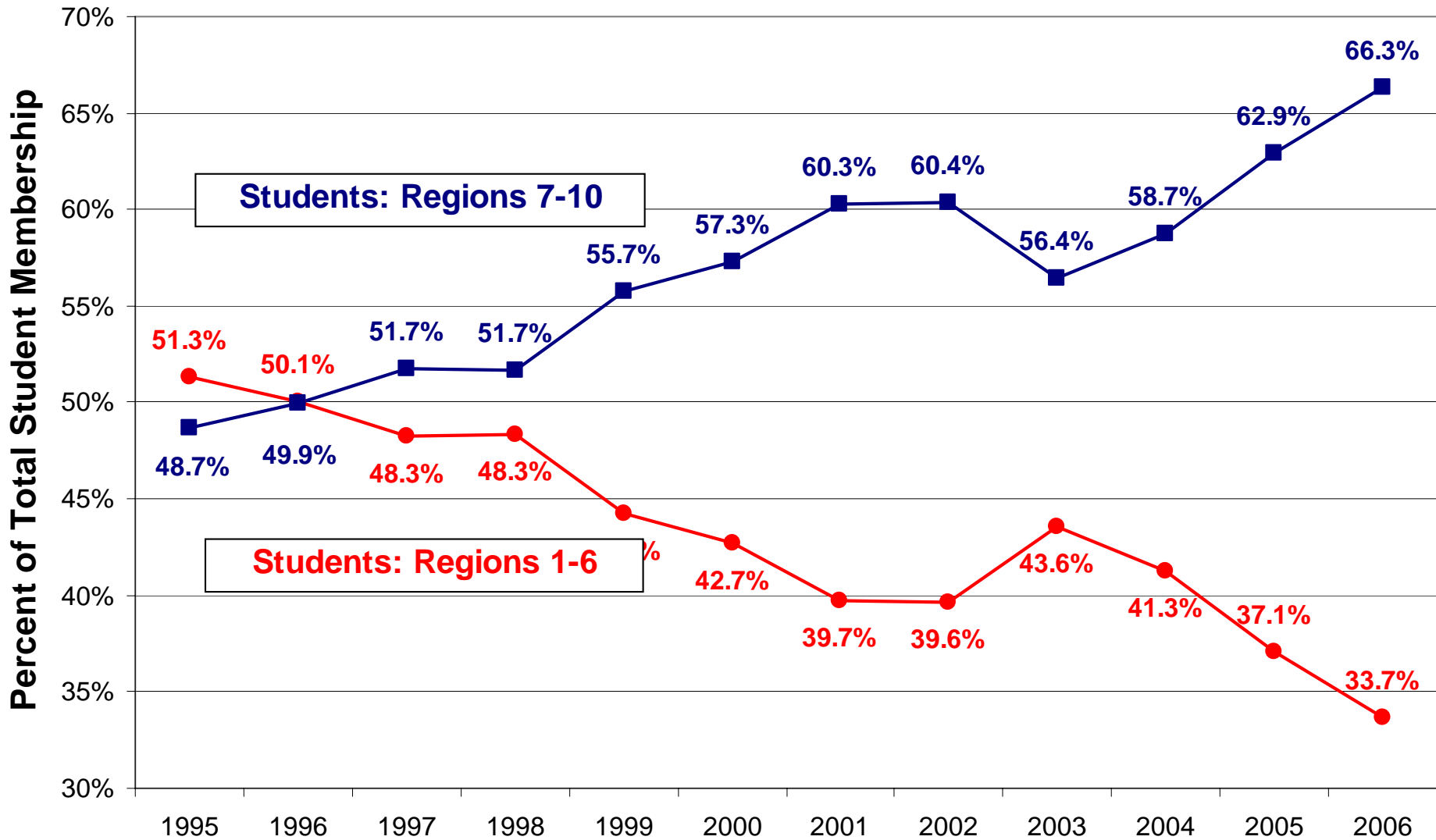
- Computational Intelligence Society
- Control Systems Society
- Engineering in Medicine and Biology Society
- Lasers and Electro-Optics Society
- Robotics and Automation Society
- Systems, Man, and Cybernetics Society
- Biometrics Council
- Sensors Council
- Systems Council

Challenges

- Globalization of IEEE membership



IEEE Student Membership



Challenges (cont.)

- Cost of membership and dues
 - particularly affecting Regions 9-10
- Availability of on-line publications
 - open access journals
- ASPP distribution
 - favors downloads
- Perceived lack of member value

Needs/Opportunities

- Alternative sources of revenue to offset increases in dues and fees
 - new programs and services
- Grow conference revenues to offset decreases in publication revenues due to open access
- Better fiscal control
 - reduce overbudgeting by societies
 - more accurate financial updates

Needs/Opportunities (cont.)

- More collaboration between societies/councils
 - conferences, publications, TC's
- More active chapters worldwide
 - rapid growth in Europe, India, China

Thanks for your attention...