

An Introduction to Div IX

to AES BoG

Al Hero

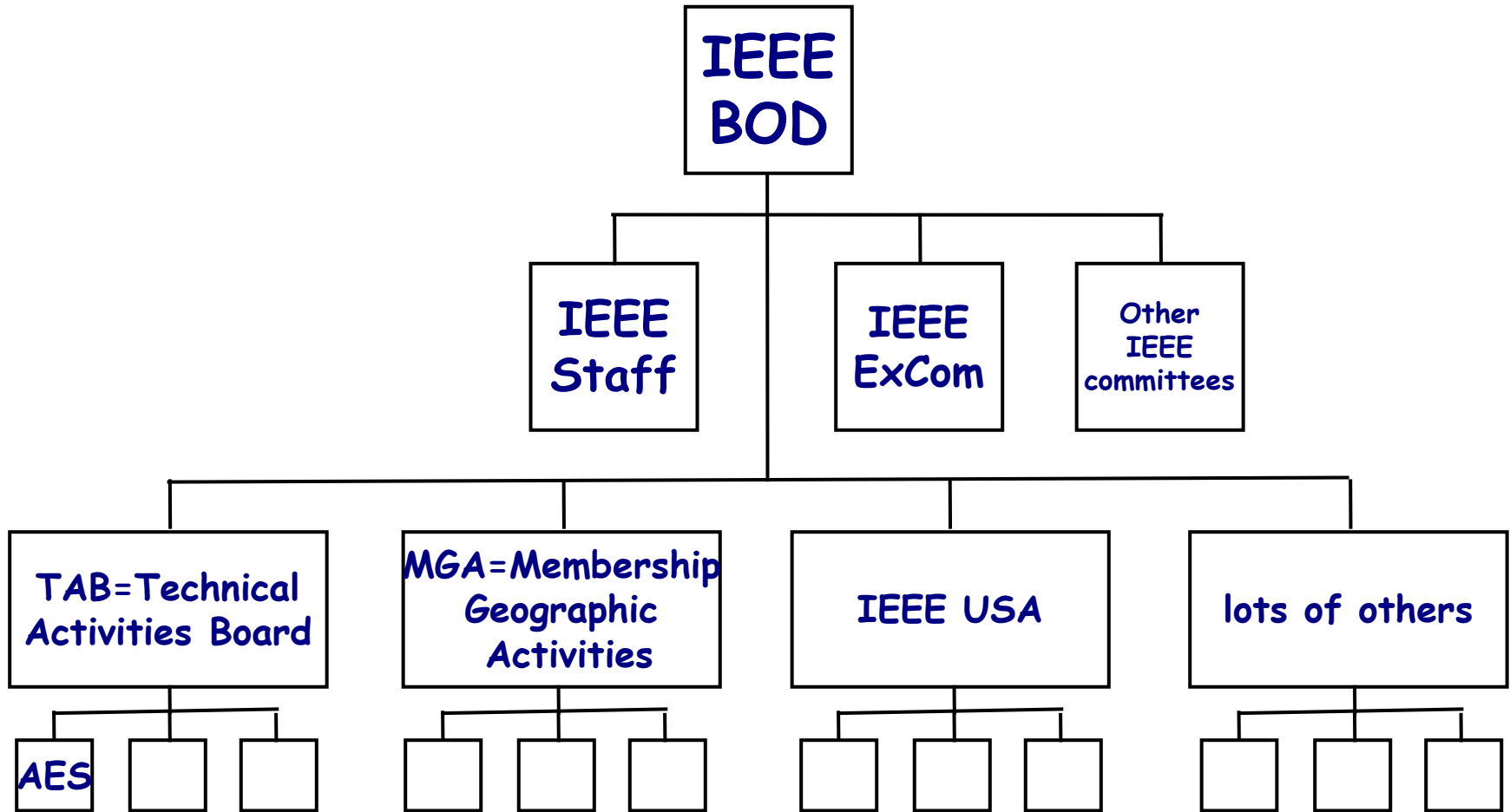
Division IX Director 10-11

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15 April, 2011

Arlington, VA

Division IX is an organizational unit of IEEE administered by TAB



Role of TAB

TAB = Technical Activities Board, which

- Represents the Societies and Councils to the IEEE Board of Directors
- Develops policy for Societies and Councils
- Provides support and guidance to Societies and Councils
- Monitors operation of Societies and Councils
 - Reviews Societies and Publications
 - Approves Society Budgets
 - Approves New Publications and changes in Publications
 - Approves Society/Council Field of Interest Statements
- Voting members of TAB include
 - 45 society and council presidents
 - 10 division directors
 - 7 other officers/committee chairs

TAB organizational structure

- TAB has a number of standing committees, whose members are elected/appointed by TAB
 - Finance a.k.a. FinCom
 - Periodicals
 - Products and Services, a.k.a. PSPB
 - Meetings and Services
 - Nominations and Appointments
 - Strategic Planning and Review
 - Management

- TAB also has staff
Administration, financials, chapters, conferences, publications, other

Member Societies in Div IX

- ***Division IX Societies***
 - **Aerospace and Electronic Systems Society**
 - Geoscience and Remote Sensing Society
 - Information Theory Society
 - Intelligent Transportation Systems Society
 - Oceanic Engineering Society
 - Signal Processing Society
 - Vehicular Technology Society

Div IX Director

- ***Division IX Director Duties***
 - A one year term as Director-Elect (2009)
 - A two year term as Director (2010, 2011)

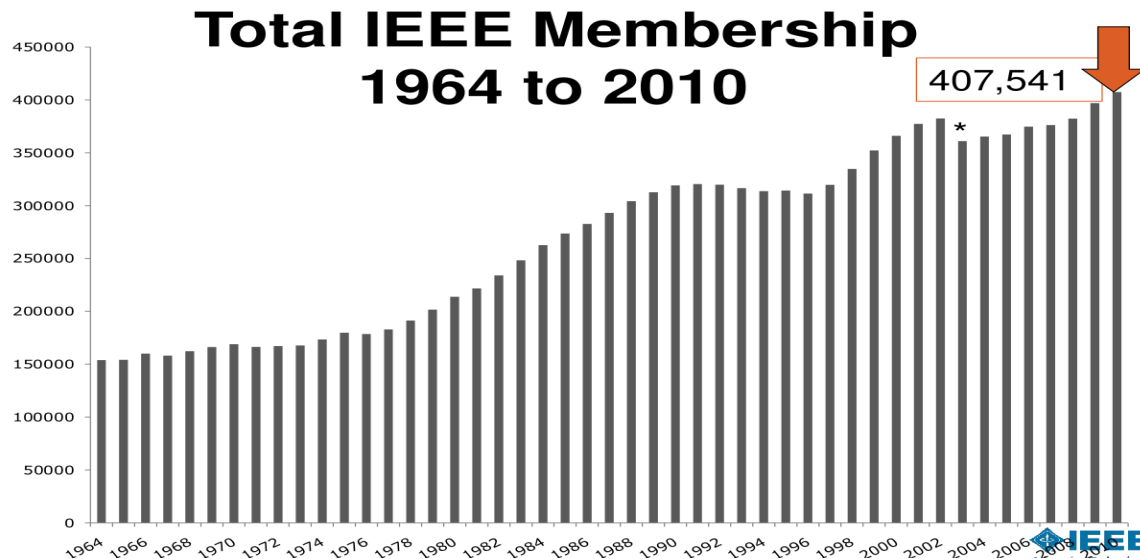
- ***During my term as Division Director***
 - **I am member of the IEEE Board of Directors (31 members)**
 - Expected to represent the interests of the IEEE vs. the interests of Div IX
 - **I am member of the IEEE Technical Activities Board (64 members)**
 - **Member on Committees**
 - *Ad Hoc Committee on Quality of Conference articles in Xplore (2010)*
 - *IEEE Awards Committee (2010-2011)*
 - *Life Science Committee (2011)*
 - **Visit BoG/AdCom of Div IX Societies during two year term**

Div IX Director Elections

- The Presidents of the seven Division IX Societies form a Nominating Committee; the Past Division Director serves as Chair
- The Nominating Committee selects candidates to appear on the ballot
 - NC members nominate candidates to appear on the ballot
 - The NC votes on the number of names to appear on the ballot
 - The NC selects the candidates to appear on the ballot
- Candidates who appear on the ballot submit
 - a professional biography
 - a position statement
- The members of Division IX Societies vote
- The candidate receiving the highest number of votes wins

IEEE Membership

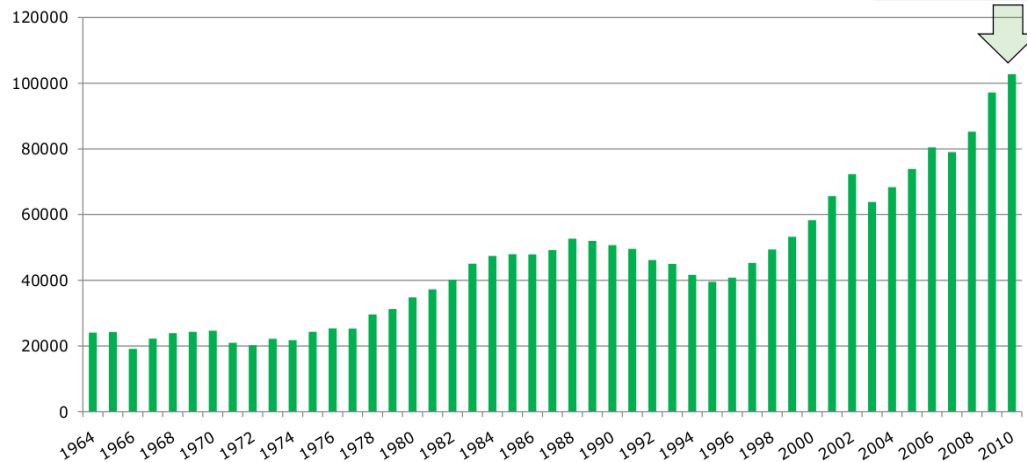
- ❑ As of Jan 2011 407,541 members in over 150 countries (+2.7%)
 - ❖ over 40 percent are from outside the United States
 - ❑ Approx 100,000 student members (+5.8%)
 - ❑ 300+ sections, ,400+ technical chapters
 - ❑ 1,300+ student branches in 80 countries
 - ❖ 300+ student branch chapters
 - 38 societies and 6 technical councils
- From every work sector**
 - ❑ 50% work for private industry
 - ❑ 20% in academia
 - ❑ 10% in government
 - ❑ 20% other (retired, self-employed, unemployed, “other”)



Member category/longevity breakdown

IEEE Student Membership 1964 to 2010

102,795



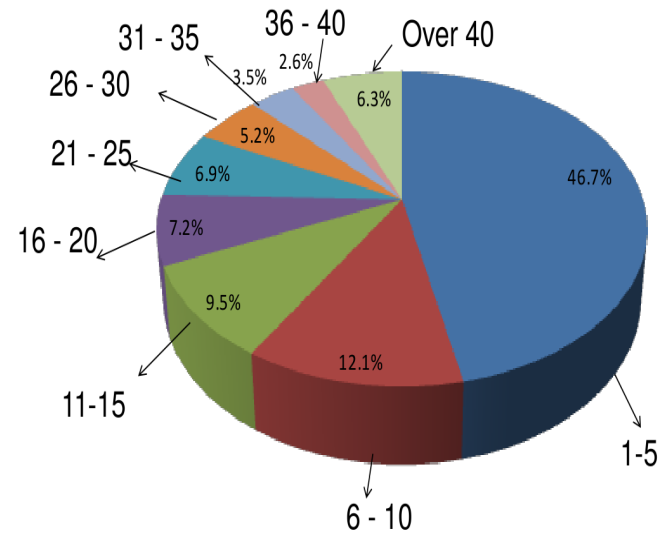
% of student members to total membership

- 1970 : 14.6%
- 1980 : 16.3%
- 1990 : 15.9%
- 2000 : 15.9%
- 2005 : 21.5%
- 2010 : 25.2%

Note increase in % of students over the past 10 years

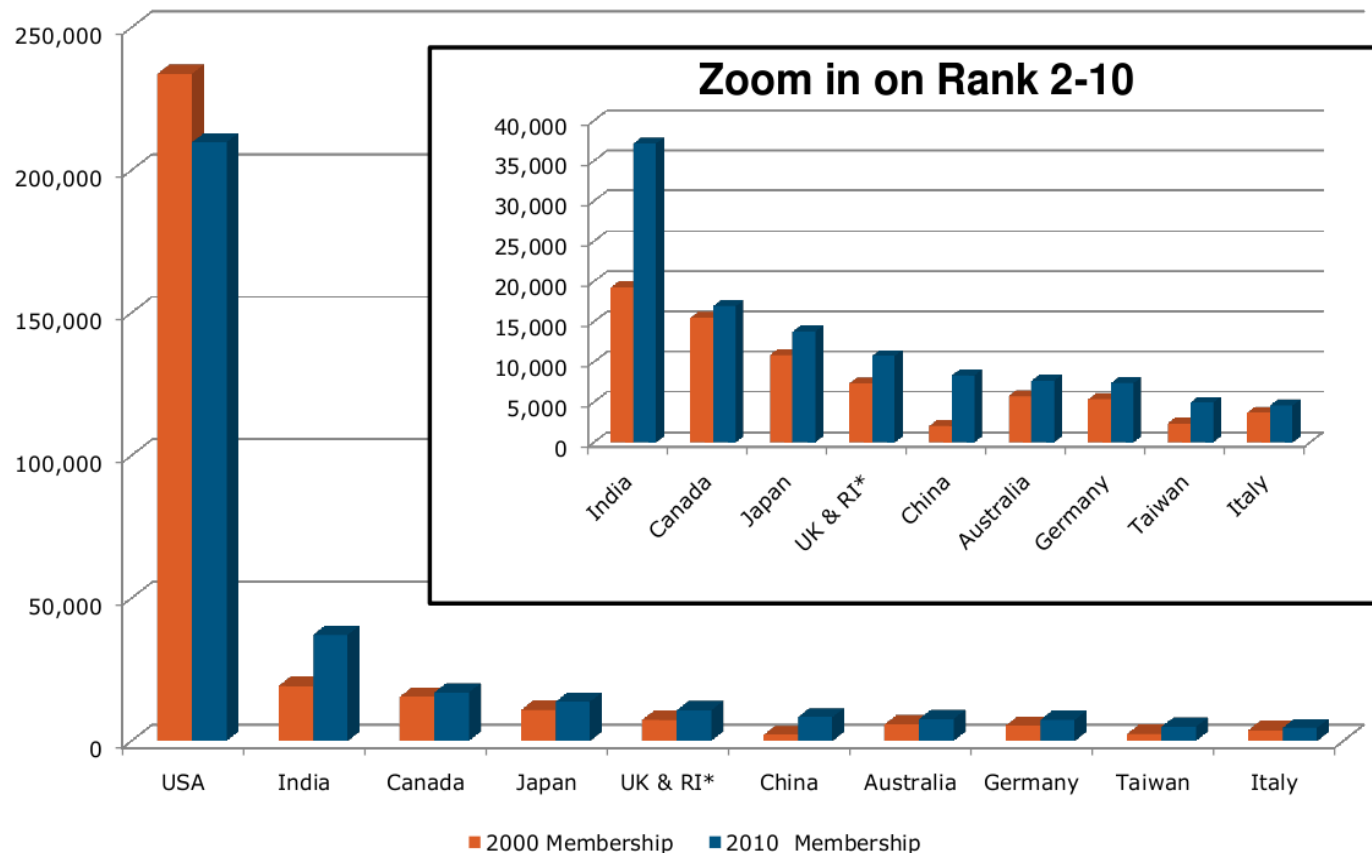


2010 IEEE Membership by Cumulative Years of Service



International cross-section

Ten Year Membership Totals in Top Countries -Total Membership-



IEEE is a Global Organization

| Category | Year of Data | Percentage from outside the U.S. |
|---|---------------------|---|
| IEEE Membership | 2009 | 46% |
| BOD | 2009 | 42% |
| Society/Council Membership | 2008 | 50% |
| Online Pkg Subscribers (IEL, ASPP, POP, Ent) | 2008 | 82% |
| Xplore Usage (pdf downloads) | 2008 | 78% |
| Editors-in-Chief of IEEE Publications | 2008 | 39% |
| Authors | 2008 | 78% |

Topics of current interest

- **Membership**
 - IEEE membership is growing (all time high in 2010)
 - Growth in Regions 7,8,9,10
 - Society membership started steep decline in 2002
 - Concerns
 - Affordability
 - Serving newer engineers
 - Serving professionals and practitioners
- **IEEE new Products**
 - National Electrical Safety Code for Android, Blackberry, iPhone
 - IEEE Spectrum on iPad
 - IEEE Standards Wireless Dictionary on Iphone
 - IEEE Xplore improvements
- **IEEE Initiatives (some examples)**
 - Smart Grid
 - Life sciences
 - Cloud computing