IEEE: Networking the World

- Foster technological innovation
- Enable members’ careers
- Promote community worldwide
- World’s largest technical professional society
- More than 350,000 members in 183 countries.

IEEE members have advanced the profession, and develop technologies that benefit humanity.
IEEE Vision

To advance global prosperity by fostering technological innovation, enabling members' careers & promoting community world-wide.
The IEEE promotes the engineering process of creating, developing, integrating, sharing, & applying knowledge about electro- and information-technologies & sciences for the benefit of humanity & the profession.
IEEE Membership By Regions
31 December 1999

<table>
<thead>
<tr>
<th>Region</th>
<th>Membership</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-6</td>
<td>228,332</td>
</tr>
<tr>
<td>7</td>
<td>14,897</td>
</tr>
<tr>
<td>8</td>
<td>44,732</td>
</tr>
<tr>
<td>9</td>
<td>13,532</td>
</tr>
<tr>
<td>10</td>
<td>50,766</td>
</tr>
</tbody>
</table>

WORLD TOTAL: 352,259
IEEE Membership Growth
1980-1999

Total Membership: 398,582
Total Society Membership: 352,259
# IEEE Membership in Regions 1-6 (U.S.)

<table>
<thead>
<tr>
<th>Region</th>
<th>1999 Total</th>
<th>1998 Total</th>
<th>Growth %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>43,546</td>
<td>43,070</td>
<td>1.1</td>
</tr>
<tr>
<td>2</td>
<td>35,200</td>
<td>34,575</td>
<td>1.8</td>
</tr>
<tr>
<td>3</td>
<td>31,169</td>
<td>30,748</td>
<td>1.34</td>
</tr>
<tr>
<td>4</td>
<td>25,714</td>
<td>25,358</td>
<td>1.4</td>
</tr>
<tr>
<td>5</td>
<td>31,213</td>
<td>31,128</td>
<td>.027</td>
</tr>
<tr>
<td>6</td>
<td>61,490</td>
<td>59,719</td>
<td>2.96</td>
</tr>
<tr>
<td><strong>1-6 Total</strong></td>
<td><strong>228,332</strong></td>
<td><strong>224,598</strong></td>
<td><strong>1.66</strong></td>
</tr>
</tbody>
</table>
### IEEE Membership in Regions 7-10

<table>
<thead>
<tr>
<th>Region</th>
<th>1999 Total</th>
<th>1998 Total</th>
<th>Growth %</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>14,897</td>
<td>14,699</td>
<td>1.34</td>
</tr>
<tr>
<td>8</td>
<td>44,732</td>
<td>40,361</td>
<td>10.82</td>
</tr>
<tr>
<td>9</td>
<td>13,532</td>
<td>12,049</td>
<td>12.3</td>
</tr>
<tr>
<td>10</td>
<td>50,766</td>
<td>43,104</td>
<td>17.78</td>
</tr>
<tr>
<td>7-10 Total</td>
<td>123,927</td>
<td>110,213</td>
<td>12.44</td>
</tr>
</tbody>
</table>
IEEE Organization

IEEE MEMBERS

IEEE Board of Directors

IEEE Executive Committee

Executive Director

Staff

Educational Activities Board

Publications Activities Board

Technical Activities Board

Regional Activities Board

IEEE-USA Board of Directors

Standards Association

February 2001
RAB Committees

- Awards & Recognition
- Finance
- Graduates of the Last Decade (GOLD)
- Nominations & Appointments

- Potentials Advisory
- Regional Conferences
- Strategic Planning
- Student Activities

Joint RAB Committees

- RAB/EAB Reference List of Educational Program
- RAB/TAB Section/Chapter Support
- Transnational

IEEE Committees (assigned to RAB by the IEEE BoD)

- IEEE Admission and Advancement
- IEEE Membership Development
<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEEE Canada, Elect and Director, IEEE Region 7</td>
<td>Celia Desmond</td>
<td>1508 Adamson St., Mississauga, ON, L5C 1B5</td>
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<td>President, IEEE Canada, Past Director IEEE Region 7</td>
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<td>(204) 889-5979</td>
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</tr>
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<tr>
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<td>Dr. Hilmi Turanli</td>
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<td>(204) 477-4606</td>
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<tr>
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<td>(519) 884-0610</td>
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<tr>
<td>Council Chair (Election board member)</td>
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<td>(819) 298-5561</td>
<td><a href="mailto:d.rivard@ieee.ca">d.rivard@ieee.ca</a></td>
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</tr>
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<td>Rob Anderson</td>
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</tr>
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<td>Haran Karmaker, GE Canada - Engn. Lab 107 Park St. North Peterborough, ON, K9J 7B5</td>
<td></td>
<td>(705) 748-7734</td>
<td>(705) 748-7948</td>
<td><a href="mailto:h.karmaker@ieee.org">h.karmaker@ieee.org</a></td>
</tr>
<tr>
<td>Recognition Chair</td>
<td>Vije Bhargava, Dept of ECE, Univ of Victoria, PO Box 3055 Stn CSC Victoria, BC, V8W 3P6</td>
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<td>(250) 721-6048</td>
<td><a href="mailto:v.bhargava@ieee.org">v.bhargava@ieee.org</a></td>
</tr>
<tr>
<td>Student Representative</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Technical Chair</td>
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<td></td>
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<td><a href="mailto:sebak@eeserv.ee.umanitoba.ca">sebak@eeserv.ee.umanitoba.ca</a></td>
</tr>
<tr>
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<td></td>
<td></td>
<td><a href="mailto:s.wesolkowski@ieee.org">s.wesolkowski@ieee.org</a></td>
</tr>
</tbody>
</table>

IEEE Canada Board of Directors - January 2001 - December 2001
On-Line Roster: www.ieee.org/roster

February 2001
IEEE Regional Activities Department

◆ Cecelia Jankowski, Managing Director
◆ Jill Levy - Acting Staff Director, Membership
◆ Tracy Hawkins - Manager, Section Chapter Support
◆ Laura Durrett - Manager, Student Activities
◆ Dan Toland - Manager, RA Administration
◆ Cathy Downer - Manager - RA Projects
◆ Vera Sharoff - Manager, Information Processing
◆ Fanny Su - Manager - Asia Pacific Operations Center
◆ Jacques Kevers - Manager - Brussels Operations Center

◆ E-mail address [First initial].[Last name]@ieee.org
Regional Activities Responsibilities

Admission & Advancement

Membership Development

Services for Transnational Board, Geographical Entities & Others

...Services for ALL Members

February 2001
IEEE Technical Societies

- Aerospace & Electronic Systems
- Antennas & Propagation
- Broadcast Technology
- Circuits & Systems
- Communications
- Components, Packaging, & Manufacturing Technology
- Computer
- 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
- Lasers & Electro-Optics
- Magnetics
- Microwave Theory & Techniques
- Nuclear & Plasma Sciences
- Oceanic Engineering
- Power Electronics
- Power Engineering
- Professional Communication
- Reliability
- Robotics & Automation
- Signal Processing
- Social Implications of Technology
- Solid-State Circuits
- Systems, Man, & Cybernetics
- Ultrasonics, Ferroelectrics, & Frequency Control
- Vehicular Technology

To serve the needs of the members of the Institute by maintaining,
Membership Continues to Grow

(December Totals)

Thousands

2000
366,135
+3.9%

February 2001
Higher Grade and Student Membership Rising
(in thousands)

February 2001
Long-Term Membership Trends
1965 - 2000
(in thousands)

Membership has more than doubled during the past 35 years

BUT...
Membership Numbers Have Not Kept Pace
(in thousands)

Market Share is Decreasing

The Market Growth

IEEE Memberships


February 2001
Membership Outside US Continues to Increase
(in thousands)

February 2001
Member Retention is Down

Note: Retention calculation changed in 1998 from calendar year to a dues year in 1998
Average age of an IEEE member was 46.0 in 2000

<table>
<thead>
<tr>
<th>Region</th>
<th>2000</th>
<th>1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>50.3</td>
<td>48.6</td>
</tr>
<tr>
<td>R2</td>
<td>49.9</td>
<td>49.4</td>
</tr>
<tr>
<td>R3</td>
<td>49.4</td>
<td>48.6</td>
</tr>
<tr>
<td>R4</td>
<td>46.9</td>
<td>46.4</td>
</tr>
<tr>
<td>R5</td>
<td>46.4</td>
<td></td>
</tr>
</tbody>
</table>
Average US Member Age Over Time
(Higher Grade, Non-Student members only)

Average age of an IEEE member was 46.0 in 2000

- '98 Avg: 49.4
- '99 Avg: 49.9
- '00 Avg: 50.3

Average age of an IEEE member was 46.0 in 2000.
Average Member Age by Non-US Region
(Higher Grade, Non-Student members only)

Average age of an IEEE member was 46.0 in 2000

- R10: 38.5
- R9: 38.7
- R8: 41.6
- R7: 43.9

Average age of an IEEE member was 46.0 in 2000.
Certification Program for Software Engineers Being Proposed

- Software Engineering as a Profession
- Doing Software Right
- Software Engineering Competency Recognition (SECR)
- More information will be forthcoming on this exciting new IEEE Computer Society program
Data Access for Volunteers

- Geographic rosters are on the web
  - Web Account authentication
  - Driven from Member Data Base
  - Web updated every two weeks
IT Services Are Growing

◆ 1999 Metrics

- 47,600 e-mail aliases
- 42,000,000 e-mail messages pass through our system annually
- 150,000 web accounts
- 57,000 web pages
- 80 servers operated and maintained
- 10,000 calls to IEEE Help Desk

◆ 2000 Metrics

- 62,400 e-mail aliases
- 48,000,000 e-mail messages pass through our system annually
- 219,000 web accounts
- 68,000 web pages
- Over 90 servers operated and maintained
- Almost 14,000 calls to the IEEE Help Desk
IEEE had 9 of the top 10 cited journals (up from 8 a year ago)

Proceedings of IEEE ranked #2 overall

IEEE has 8 of top 10 telecom journals

IEEE Journals that ranked #1 in their fields include

IEEE Transactions on

- Aerospace and Electrical Systems
- Microelectromechanical Systems
- Vehicular Technology

Note: Based on Institute for Scientific Information (ISI) 1999 Annual Citation Report that ranked 205 EE journals
Almost 65,000 New Applications Processed in 2000

February 2001
Thoughts Going Forward
Thoughts Going Forward

◆ We have improved greatly
◆ Competition is growing
◆ Members/Customers want less confusion and more convenience
◆ Getting to next level of improvement is only possible with fundamental IEEE changes
Thoughts Going Forward

◆ Resolve the Financial Model Issue
◆ Address governance opportunities
  ① Improve structure of Board and ExCom
  ② Restructure Bylaws and Policies & Procedures
      Affero with greater organizational unit empowerment
      Affero within an appropriate set of financial, human
     resource, and image rules
◆ Simplify our business rules