

# POWERTECH 2011

POWER & ENERGY SOCIETY UPDATE

ALAN C. ROTZ

IEEE PES PRESIDENT

TRONDHEIM, NORWAY JUNE 20, 2011

# WELCOME

- To TRONDHEIM
- To POWERTECH 2011

# THANK YOU

- **Speakers, Panelists, Authors**
- **Sponsors & Supporters**
- **Local Organizing Committee**
- **Other Volunteers**
- **Attendees**

# My Personal Background

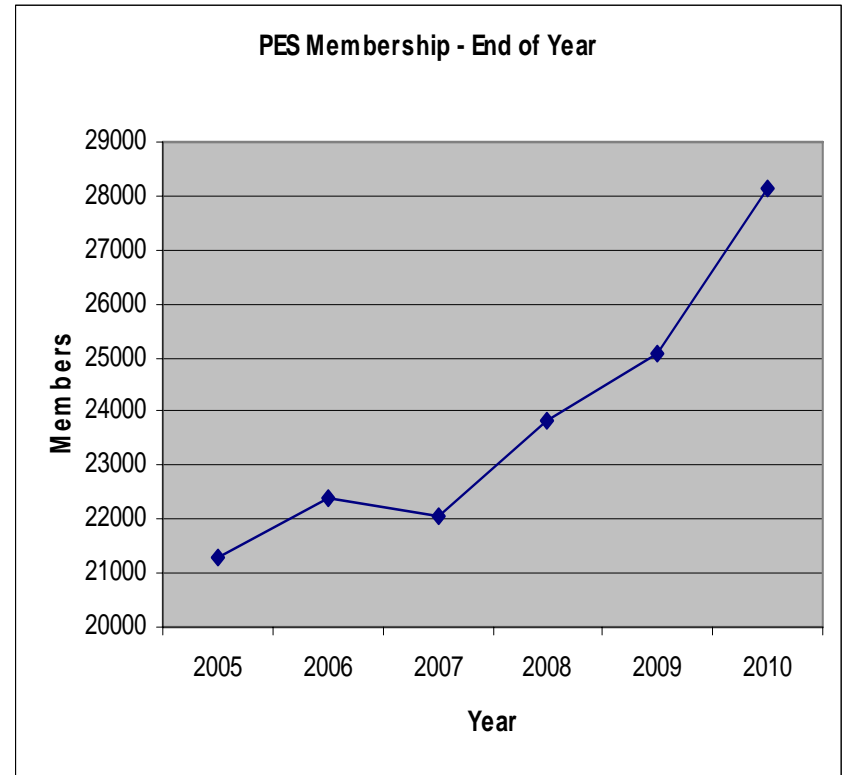
- Lehigh University BSEE 1970
- Drexel University MS Engineering Mgmt 2002
- Registered Prof Engr in PA
- 40 year career at PPL Electric Utilities, Retired April 2010
- EEI Transmission Committee 1995-2001, 1<sup>st</sup> Vice Chair in 2000 & 2001
- IEEE Power & Energy Society
  - Substation Committee 1995-2001, Vice Chair of Environmental Subcommittee. Worked on 3 Guides/Standards.
  - Treasurer of PES 2004-2007
  - President-Elect of PES 2008-2009
  - President of PES 2010-2011
  - IEEE Future Directions Committee
  - IEEE Conflicts and Resolution Committee
  - IEEE PSPB Products & Services Committee

# WHAT IS IEEE?

- IEEE is largest non-profit, technical professional assoc.
  - 30%+ of world's published literature in electrical engineering, computers, and control technology
  - 1300+ conferences annually
  - 900+ Active Standards with 450+ In Development
    - Nearly 360 of those belong to PES
- IEEE Membership
  - 407,000+ members in 2010 (+ 4% from 2009)
  - 1800 chapters and growing
  - 38 technical societies, 7 technical councils
    - PES is the third largest technical society

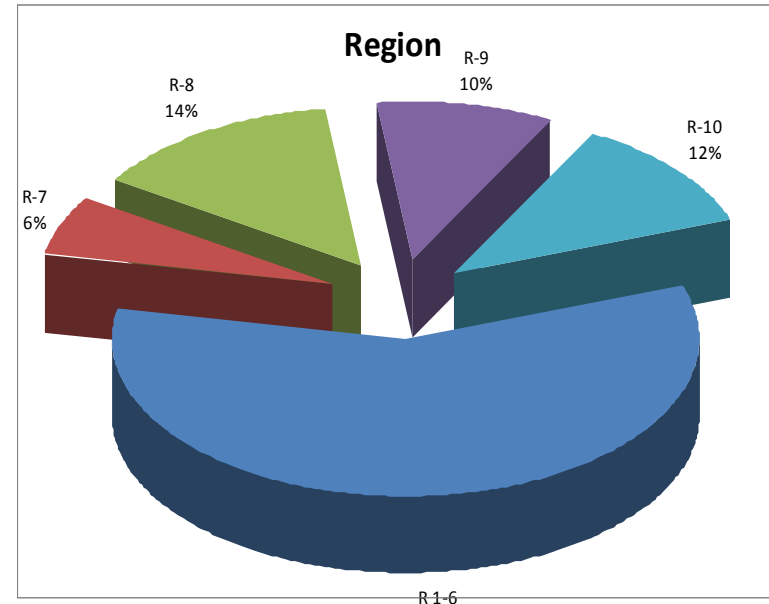
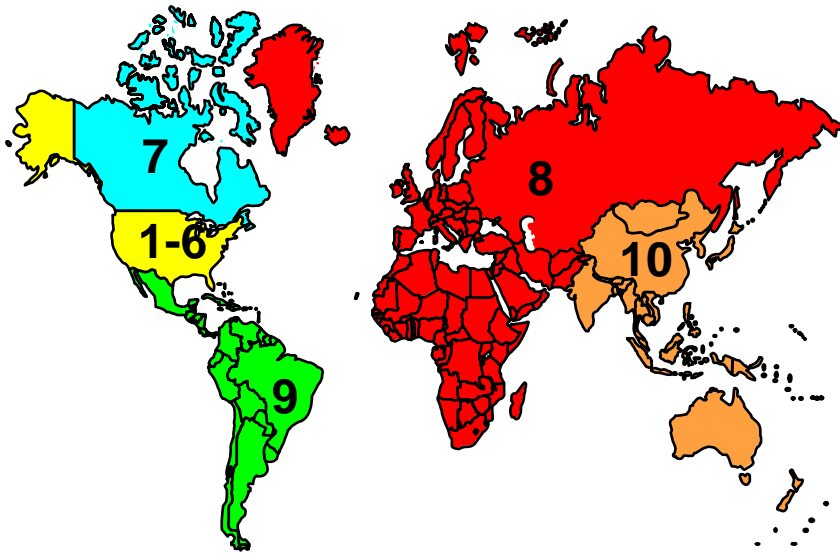
# PES MEMBERSHIP 2010

- PES Membership is Growing
  - 28,158 Total Members
  - 213 Chapters (+12)
  - 65 Student Branches (+29)



# IEEE PES Membership by Region

## 2010

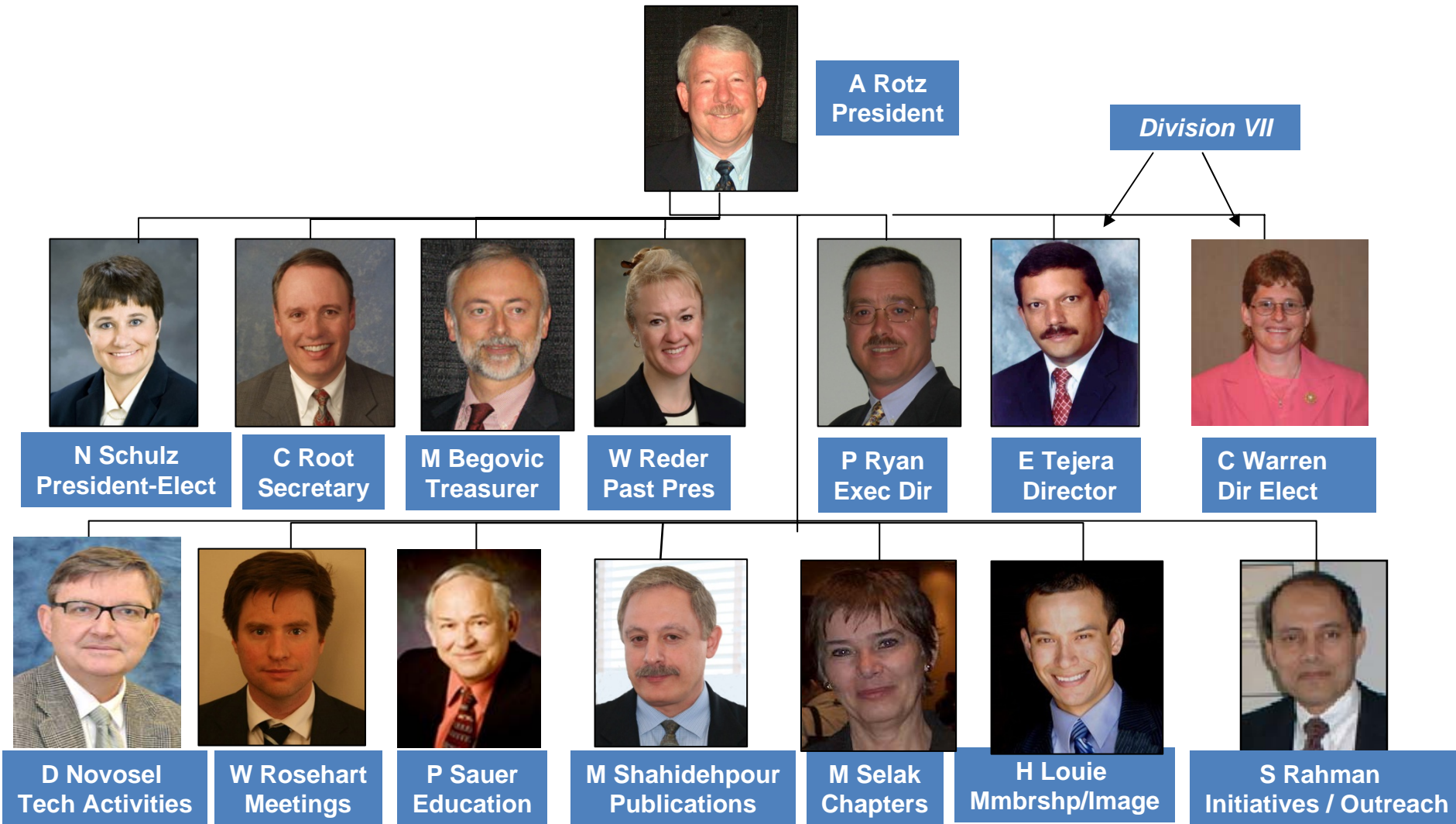


# PES MEMBERSHIP LAPEL PINS

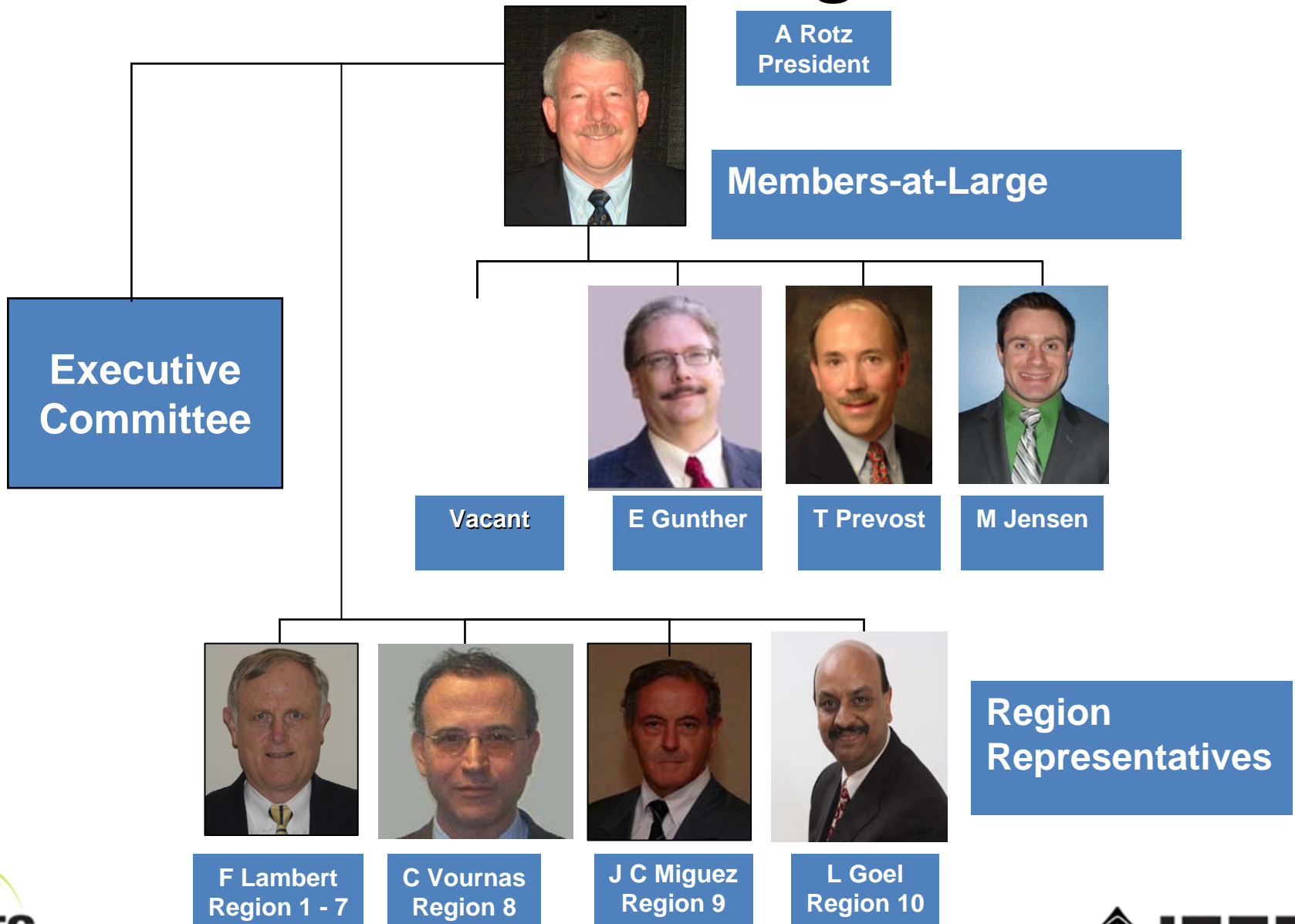
- Free for all PES members
- Don't be shy--Please see Pat Ryan or me for your pin. We usually have some in our pockets.
- We have to leave on Tuesday morning for an IEEE meeting, so don't delay!
- Email Shanon Nason at the PES Executive Office if you'd like a supply for your local chapter ([s.nason@ieee.org](mailto:s.nason@ieee.org) )



# 2010 PES Executive Committee



# 2010 PES Governing Board



# What is IEEE PES?



A trusted resource dedicated to the technical, informational, networking and professional development needs of our members, which are over 28,000 in number and active worldwide.

# Technical Activity – Technical Committees

- 17 Technical Committees and 6 Coordinating Committees
  - Network with the brightest minds in the Power & Energy Industry
- Joint Technical Committee Meetings – January each year!
- 350 + Standards (40% of IEEE total!)
  - Close to 100 involve Smart Grid
  - International Involvement
    - International Electrotechnical Commission (IEC)
    - International Standards Organization (ISO)
  - 3 New UHV Standards with China

# PES Meetings

- Meetings feature technical programs, exhibits, tours, topical Super Sessions, educational tracks and countless networking opportunities.
- IEEE PES Meetings

<u>Meeting</u>	<u>Frequency</u>	<u>Participants</u>
– General Meeting	Annual	2,300+
– Joint Technical Meeting	Annual	500+
– Power Systems Conf.	Every other Year	1200
– T&D Conf. and Expo	Every other Year	13,000
– ESMO	Every 2 or 3 Years	1,000+
– ISGT	Varies but Expanding	300-800
– Region Specific Meetings	Varies	500 – 1000

- Technically Co-Sponsored Meetings—Over 40 per year
- Notable Presentations from past conferences

# ISGT CONFERENCES

- ISGT 2010, Gaithersburg, MD
- ISGT 2010 Europe, Gothenburg, Sweden
- ISGT North America 2011 Anaheim
- ISGT Latin America 2011, Oct 19-21, Medellin, Colombia
- ISGT Australia 2011, Nov 13-16, Perth, Australia
- ISGT India 2011 Dec 1-3, Kollam, Korala, India
- ISGT Europe 2011, Dec 5-7, Manchester, England
- ISGT Middle East 2011, Dec 17-20 Jeddah, Saudi Arabia
- ISGT NA 2012, January 16-18, Washington DC
- ISGT China May 2012 Tianjin (near Beijing)
- ISGT Europe 2012, Berlin, Germany, Oct 2012

# CHAPTERS

- Added 12 in 2010 for total of 213
- Added 29 Student Chapters for total of 65
- Training for New Chapter Officers (plus on-line Chapter Chair Reference Guide)
- Distinguished Lecturer Program
- Awards
  - Outstanding Large & Small Chapter
  - High Performing Chapter
  - Website and Membership Growth Contests
  - Outstanding Engineer Award

# EDUCATION

- Tutorials
- Distinguished Lectures (through Chapters)
- E-Learning Module (New Smart Grid units)
- Plain Talk Courses for Non-Engrg Professionals
- Videos



# PES Publications

- IEEE Smart Grid Reprint Compendiums
  - 2011 E-copy on PES website
- New IEEE Transactions (2010) on:
  - Sustainable Energy
  - Smart Grid
- Continuing IEEE Transactions on:
  - Power Systems
  - Power Distribution
  - Energy Conversion
- Power & Energy Magazine
- E-Newsletter & E-Bulletins

# MEMBERSHIP

- Membership increased by 12+% in 2010, 27% over last three years
- Student Resources Web Page
  - 1<sup>st</sup> Year Free
  - PES-Careers
  - PES-Careers Global (Region 8/Europe)
- Sr. Membership and Fellows
- Awards

# Initiatives & Outreach

- Exploring opportunities for new financially sponsored or technically co-sponsored conferences
- Specialized Conferences and New Periodicals
- ID Educational Materials for Practicing Engineers
- Outreach and Special Events
- Community Solutions Initiative

# COMMUNITY SOLUTIONS INITIATIVE

- Formerly part of IEEE HTC (Humanitarian Technology Challenge)
- Open source solar and wind power solutions for remote areas inaccessible by the “grid”
- In process of delivering 6 solar trailers to Haiti
- Wind solution by PES and other volunteers in Seattle area. Nearing final design.

# PES AWARDS

- Some awards not given due to lack of nominees
- Take the time to consider nominating deserving individuals
- Deserving individuals are needed for IEEE Awards also
- PES Awards at <http://www.ieee-pes.org/membership/awards>

# PES FELLOWS

- Nominees are down
- Number of new fellows for 2011 was lowest in recent memory
- Take the time to nominate a deserving PES member
- Noel Schulz, PES President-Elect, leading team to look at Awards and Fellows. Info session planned for GM in Detroit

# *Conclusion*

- PES is Growing
- Be Part of the PES Future – Get Involved
  - Join Us and Be a Part of the Future of PES
  - If You Are a Member, Invite a Friend or Co-Worker to Join
  - Attend & Participate in Conferences When You can
  - Support Your Local Student Chapter. Start One if None Exists!
- It's a Great Time to Be a PES Member



Power & Energy Society™



# IEEE PES Mission Statement

*To be the leading provider of scientific and engineering information on electric power and energy for the betterment of society and the preferred professional development source for our members*





# QUALIFICATIONS FOR IEEE FELLOW GRADE

IEEE Fellow status is granted to a person with an extraordinary record of accomplishments in any of the IEEE's designated fields of interest in following categories:

- Application Engineer/Practitioner
- Educator
- Research Engineer/Scientist
- Technical Leader

# PROMOTING IEEE PES FELLOW NOMINATIONS

- Nominations should emphasize how the nominee has helped change the society
  - Needs to be documented through publicly accessible papers, reports, etc., preferably peer reviewed
- To promote more PES nominations, Technical Committee Coordinators should:
  - Identify candidates and propose/help select nominators and references
  - Helping select nominators and references may be particularly important to international candidates in countries where there are not too many Fellows

# REQUIREMENTS FOR NOMINATORS AND REFERENCES

- **NOMINATOR:** Any person, including non-members, are eligible to serve as a nominator with the following **exceptions**:
  - Members of the IEEE Board of Directors
  - Members of the IEEE Fellow Committee
  - Members of the IEEE PES Fellow Committee
  - Technical Committee Fellow Coordinators
- **REFERENCE:** A Reference must be an IEEE Fellow in good standing, with the **exceptions** same as above
  - In addition, a nominator may not serve as a reference for a nomination he/she is submitting.

# THE IEEE FELLOW PROCESS

## Responsibilities of a Nominator:

- Submit the IEEE Fellow Nomination Form by March 1
- Solicitation of at least 5, but no more than 8, references
- Solicitation of Endorsements (optional)
- Identification of an IEEE Technical Society/Council to evaluate the nomination

## Responsibilities of a Reference

- Submit the Fellow Reference Form by March 1

## Responsibilities of a Technical Comm. Coordinator

- Submit the Evaluation for the nominations relevant to the committee by June 1 (access to the web site will be granted by the PES Fellows Committee Chair)