

# SWITCHGEAR COMMITTEE MEETING

POWER & ENERGY SOCIETY UPDATE

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IEEE PES PRESIDENT

NASHVILLE, TN

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# 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
- EEL 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 TAB Ethics & Conflicts Resolution Committee

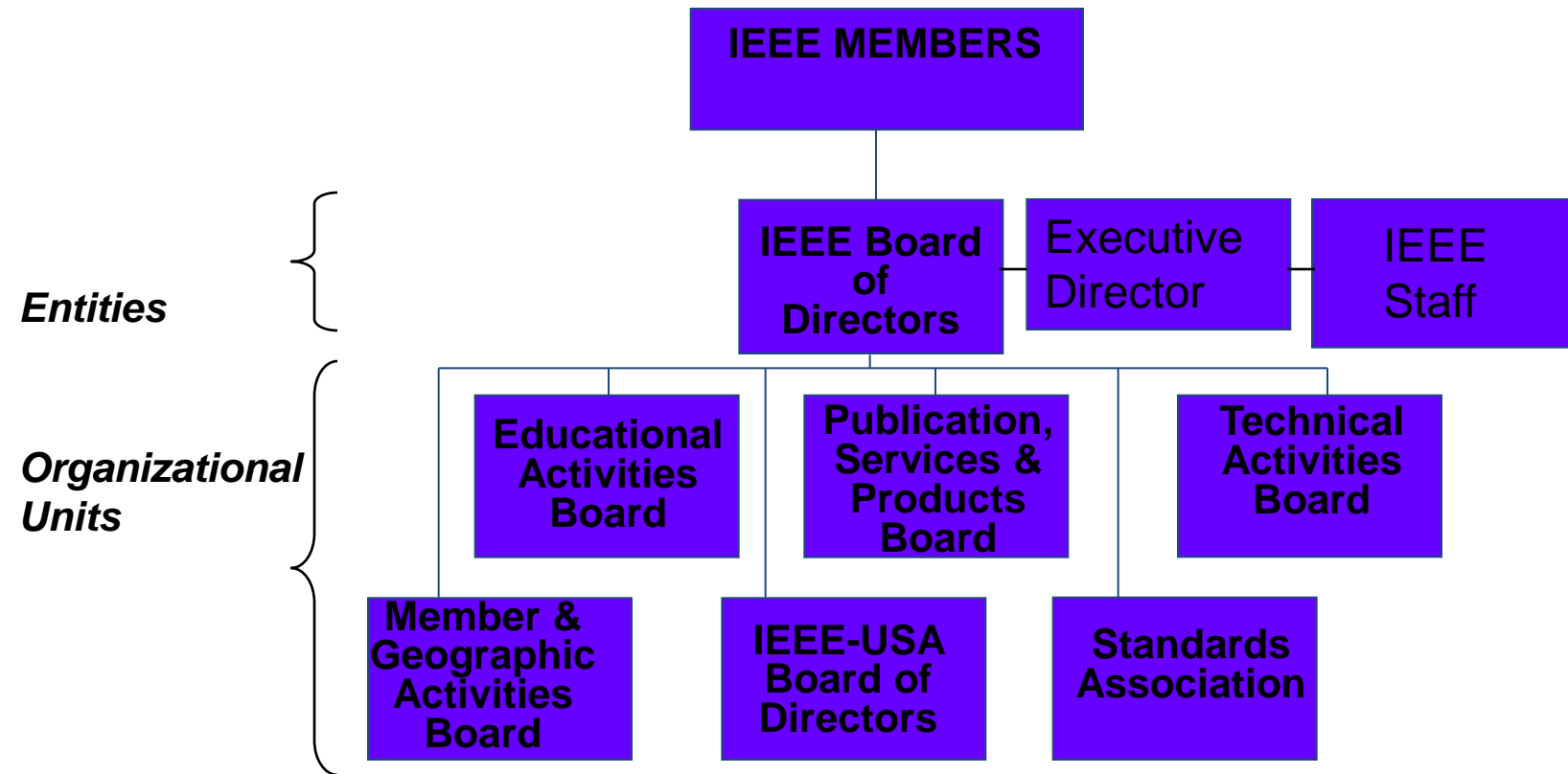
# DISCUSSION TOPICS

- PES Membership
- Meet the PES Gov Bd
- PES Discussion Topics
  - 2011 PES Goals
  - Scholarship
  - Technical Activities
  - Meetings/Conferences
  - Education
  - Publications
  - Initiatives & Outreach
- Awards and Fellows

# WHAT IS IEEE?

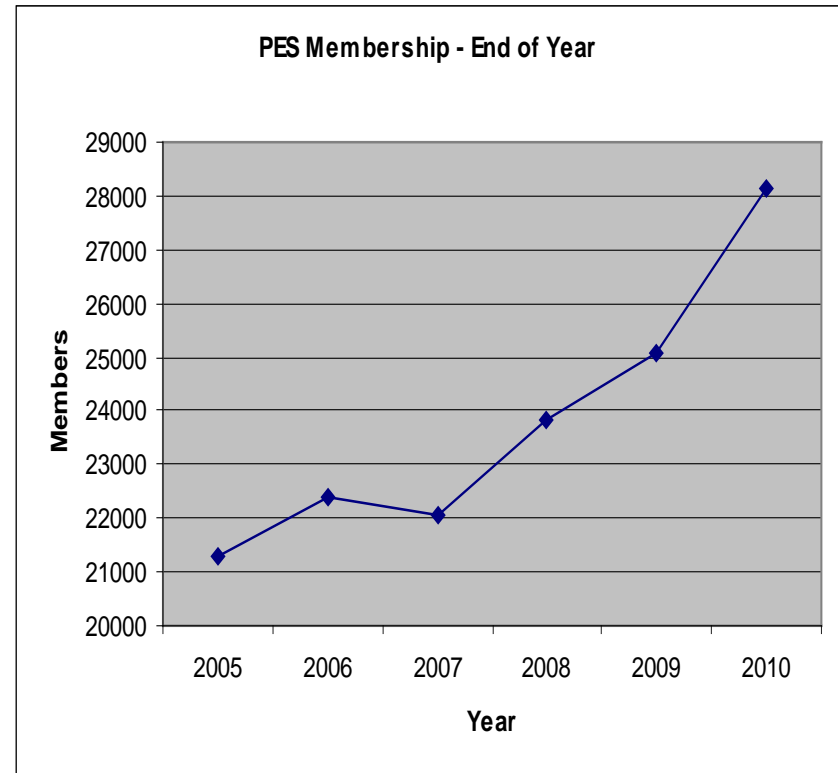
- IEEE is largest non-profit, technical professional assoc.
  - 30%+ of world's published literature in electrical engineering, computers, and control technology
  - 1300+ conferences annually
  - 900+ Active Standards with 450+ In Development
    - Nearly 360 of those belong to PES
- IEEE Membership
  - 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

# IEEE Organizational Structure



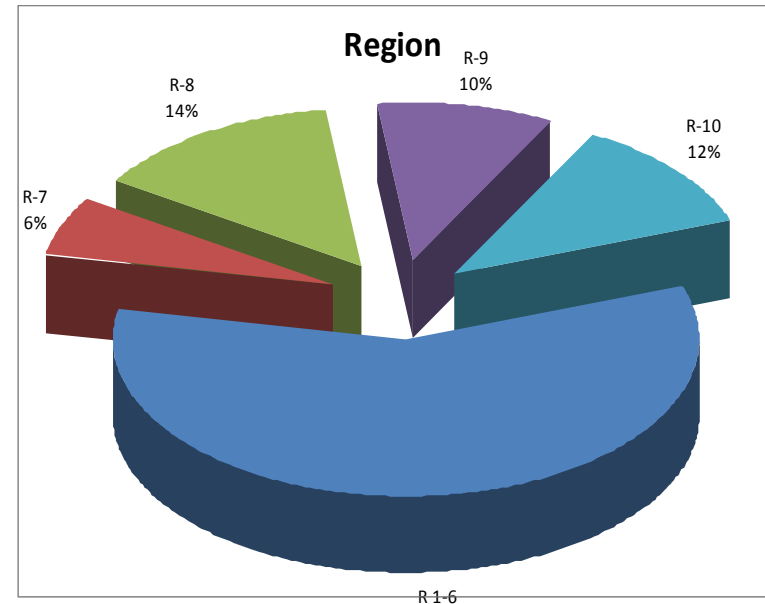
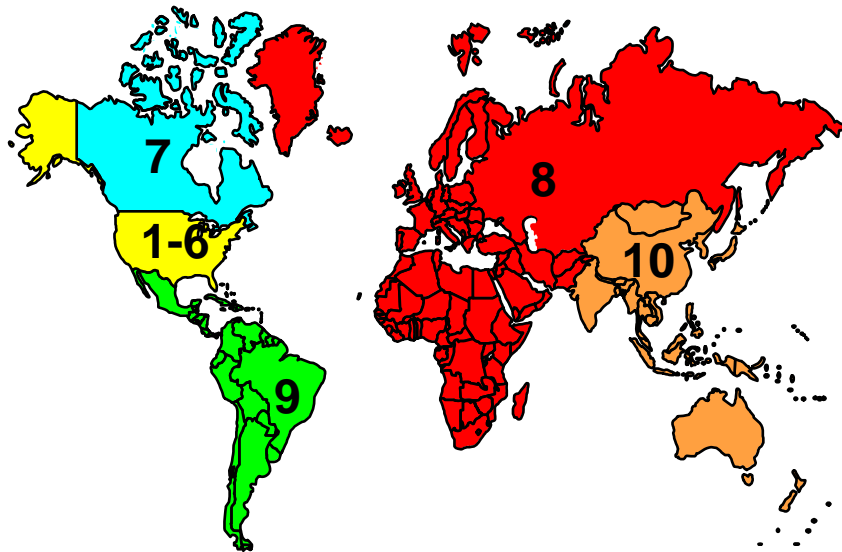
# PES MEMBERSHIP 2010

- PES Membership is Growing
  - 28,158 Total Members
  - +12.5% in 2010
  - +27% over last 3 years

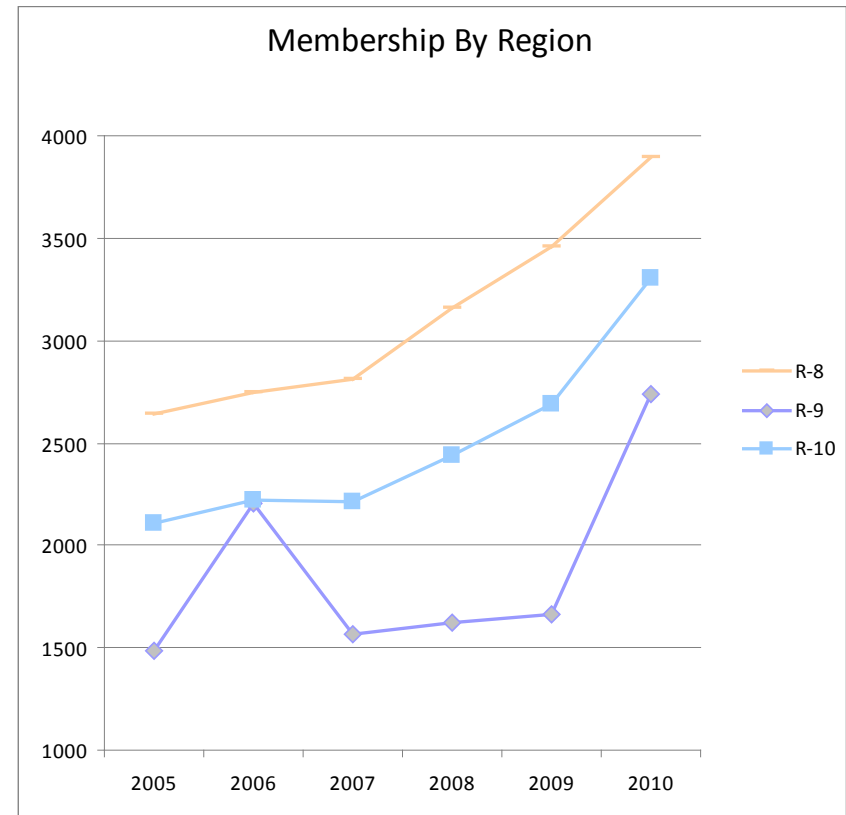
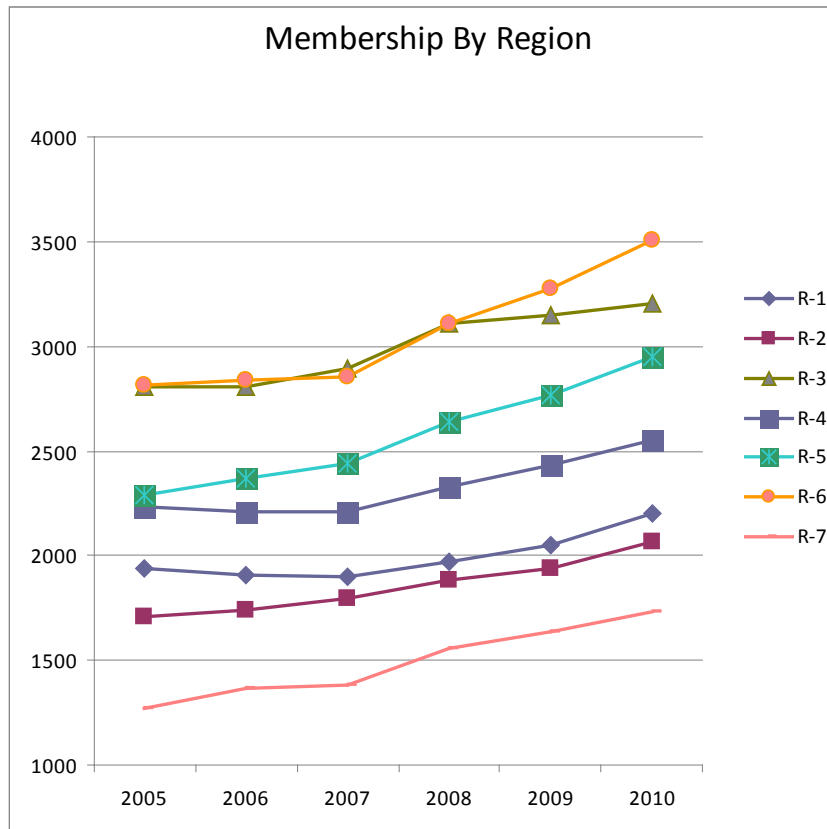


# IEEE PES Membership by Region

## 2010



# MEMBERSHIP GROWTH BY REGION





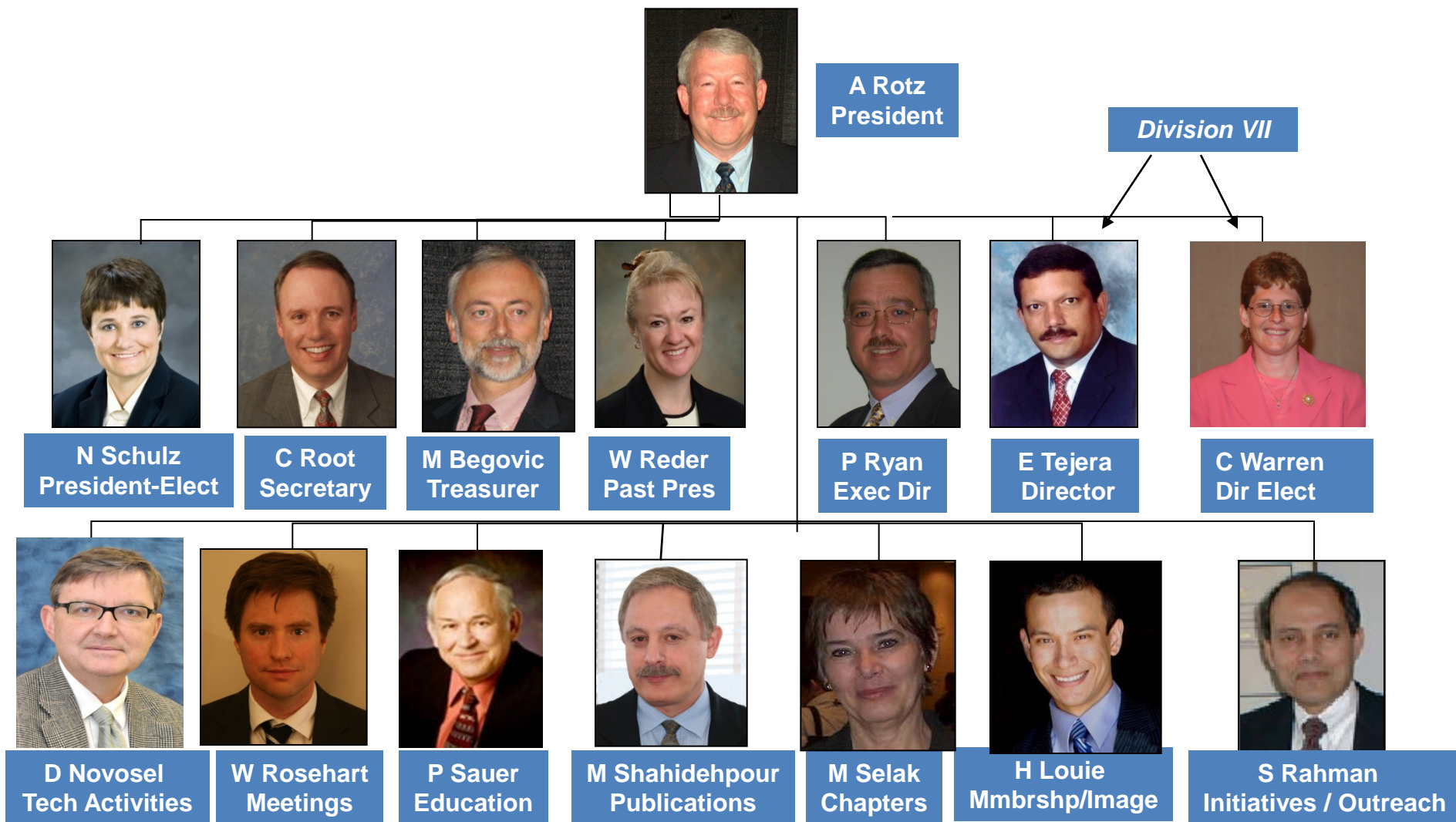
# CHAPTERS

- 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

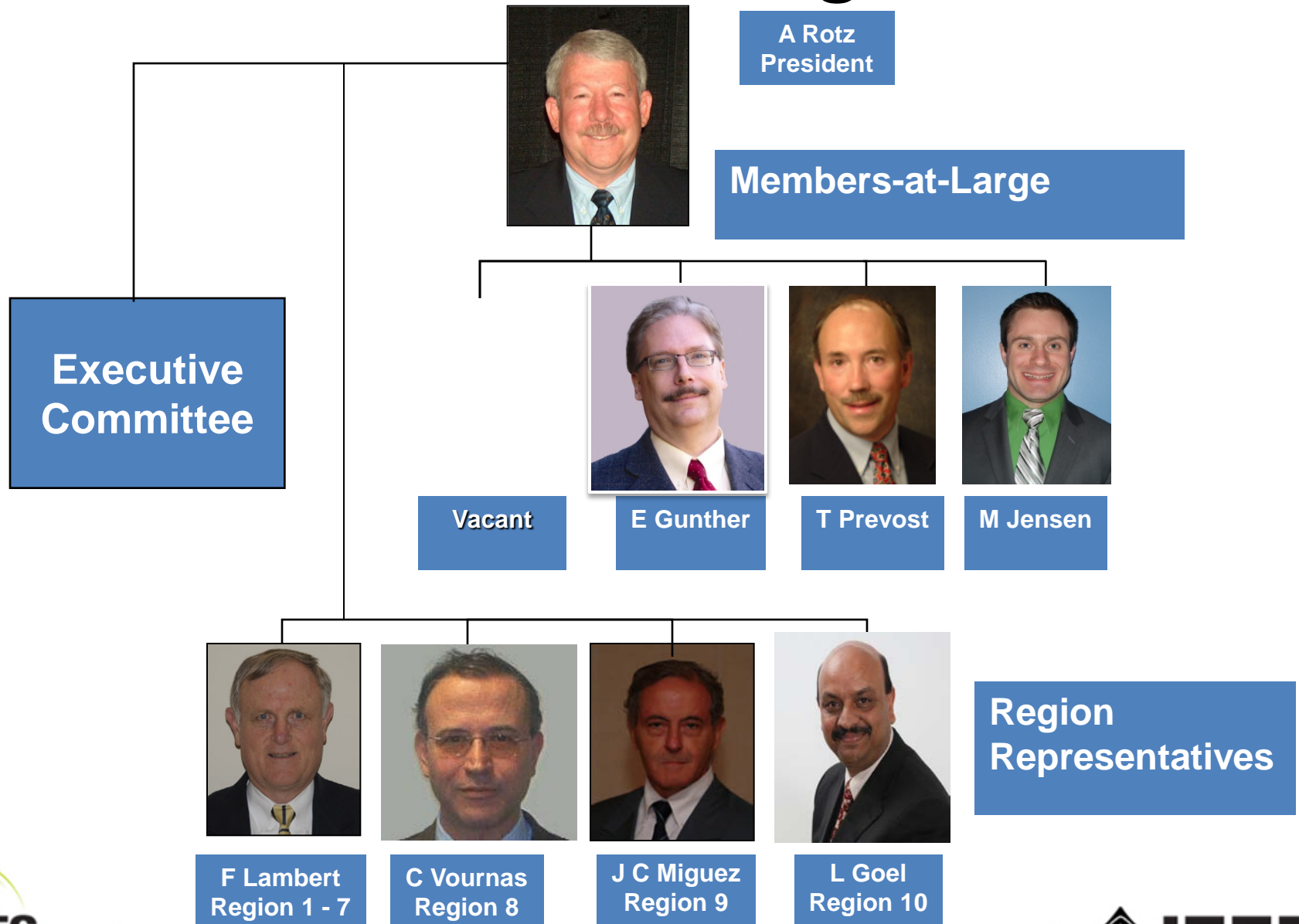
# PES MEMBERSHIP LAPEL PINS

- Free for all PES members
- Please see me or Jeff Nelson for your pin anytime during the meeting. I usually have some in my pocket.

# 2010 PES Executive Committee



# 2010 PES Governing Board



# PES GOALS 2011

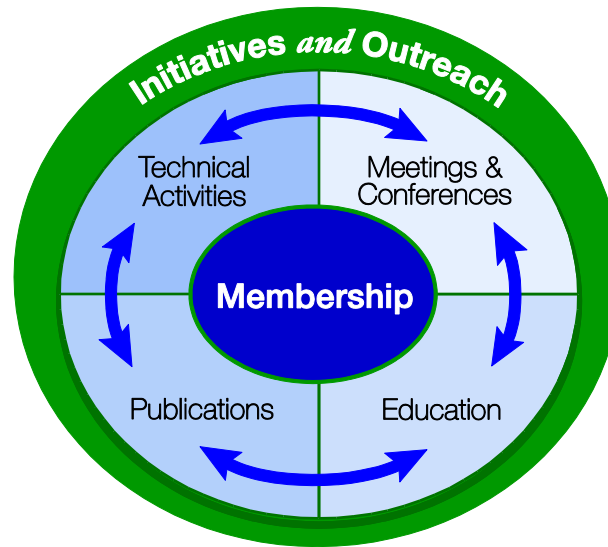
- Promote power industry involvement in PES
- Increase & retain PES membership worldwide, and make student, GSM and GOLD member participation more meaningful
- Assure that PES is in the forefront of energy topics and emerging technologies (smart grid, renewables, distributed generation, electric vehicles, storage, demand response, etc.)
- Expand services to members worldwide including education, conferences, publications, standards and “PES Careers”
- Improve the effectiveness of meetings & conferences
- Increase the benefits to PES from standards efforts
- Improve the effectiveness of technical committee organization

# PES Scholarship Plus Initiative

- Partnering with power & energy stakeholders to increase the number of new engineers pursuing power & energy careers
- Targeting \$12 Million over 3 year period
- Includes 3 year scholarships for Soph-Sr (\$2k, \$2k, \$3k) plus industry internship
- Intended to supplement, not replace, existing funding sources
- Went Live April 5, 2011
- First Scholarship Winners Notified Sept 2011 (94)

- <http://ee-scholarship.org/>

# 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
- Need your Committee Product suggestions TODAY for the new

PES Resource Center



# 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
- Notable Presentations from past conferences on PES website/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
- ISGT Europe 2011, Dec 5-7, Manchester, England
- ISGT Middle East 2011, Jeddah, Saudi Arabia, Dec 17-20
- ISGT NA 2012, January 16-18, Washington DC
- ISGT Asia 2012, May 21-24, Tianjin Univ, China (near Beijing)
- ISGT Europe 2012, Berlin, Germany, Oct 14-17, 2012

# EDUCATION

- Distinguished Lectures (through Chapters)
- E-Learning Module (New Smart Grid units)
- Plain Talk Courses for Non-Engng Professionals
- Tutorials at Major Conferences & GM
- Videos

# PES Publications

- IEEE Smart Grid Reprint Compendiums
  - 2010 & 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

# 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”
- Delivered 6 solar trailers to Haiti June 2011
  - 240+ homes, 1500+ people
- Wind solution by other volunteers in Seattle area. Nearing final design. Proof of concept in Zambia July 2011 was a success.



# CSI Trailer-Panels Deployed



# PES AWARDS

- Some awards not given due to lack of nominees
- More of us need to take the time to nominate deserving individuals
- Deserving individuals are not nominated for IEEE Awards either
- PES & IEEE Awards at <http://www.ieee-pes.org/membership/awards>



# PES FELLOWS

- Nominees are way down
- Number of new fellows for 2011 was lowest in recent memory
- Many deserving PES members are not being nominated
- Noel Schulz leading team to look at Awards and Fellows. Info session held at GM in Detroit
- IEEE Fellows Committee notified of Concerns

# 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
    - 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)

# OTHER NOTEWORTHY ITEMS

- PES Careers-Global
- ESMO is back after 5 year absence
- PES e-Newsletter Format & new e-Bulletin
- Promotional Videos (Outreach Tab on website)
- Plain Talk Courses
- e-Learning Modules (Smart Grid Recently added)
- PES Logo Lapel Pins

# *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 Chapter & Student Chapter. Start One if None Exists!
- It's a Great Time to Be a PES Member



# 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*

