

Minutes of the IEEE – Power Engineering Society

**Power Engineering Education Committee – Main Meeting**

Tuesday, June 20, 2006  
Montreal, Canada

The PEEC Main Meeting convened at 2:00 pm in 518C of the Palais des congrès in Montreal, Canada at the 2006 PES General Meeting.

Members and guests present: List attached

The meeting opened with introductions and a welcome from the chair.

Announcements: Vijay listed the PEEC sponsored panels and urged members to attend. He also announced the following awardees:

Outstanding Power Engineering Educator: Jim Thorp

IEEE Fellows: Ali Chowdhury, Ian Dobson, Ian Hiskens, Thomas Overbye, Vijay Sood

National Academy of Engineers: Richard Farmer

Vice-President Report: Mariesa Crow reported that 16 papers were submitted to PEEC in the past year. 3 are in review, 3 are under revision, 10 were rejected, and 1 was accepted. Mariesa also gave the deadline dates for the GM07 panels and paper submittals. She further gave an overview of the PSCE in Atlanta. The dates for the PSCE 2009 in Seattle are March 15-19, 2009.

Secretary Report: Karen Butler-Purry reported on the membership list and listed the open officer positions. (see attached)

Committee Reports:

Awards: Anil Pahwa reported that 9 nominations for Fellows for 2007 were reviewed. Also he announced the following PEEC awardees:

3 outgoing Subcommittee chairs:

Elham Makram – Life Long Learning

Mariesa Crow -- Research

Miroslav Begovic – Student Meetings

Prize Paper Award

L. Dong, M. L. Crow, Z. Yang, S. Atcitty, “A Reconfigurable FACTS System for University Laboratories, IEEE Transactions on Power Systems, vol. 19, no. 1, pp. 120-128, February 2004.

Distinguished Service Award

Pete Sauer

Life-Long Learning: Siri Varadan reported that 2 tutorials will be offered at the T&D06 and 2 tutorials at GM06. They are both CEU certified. Further 4 tutorials will be offered at PSCE06 and the Power Systems Basics Course will be offered. Siri also discussed the reimbursement policy for instructors of tutorials. The PES Board approved the policy at the January 2006 board meeting. There were discussions about videoconferencing, video tapes, or other options for tutorial delivery. Noel Schulz listed the areas that PES is considering for tutorials: non-technical, technical, and technical for non-technical professionals.

Career Promotion and Workforce Development: Alex Flueck reported that based on Pete Sauer's 2005 GM panel session in San Francisco, he has organized a "Workforce of the Future" panel session. The first panel session will be held at the 2006 GM in Montreal and the second will be held at the 2006 PSCE in Atlanta. Further Alex reported that rather than prepare a PowerPoint style presentation to go along with the Career Videos, the SC will focus their energy on keeping the Power and Energy Pathfinder website current. This is an IEEE web site with annotated listings of roughly a couple hundred web sites. The url is: <http://www.ieee.org/powerandenergypathfinder>. An editorial working group within the career promotion subcommittee will be established to update the annotated listings semi-annually. Also the SC is discussing a new initiative (possibly online) to promote power engineering.

Research: Tom Overbye reported on the GM06 panels that are being held. Also he listed 4 proposed panels for GM07: Infrastructure for Energy Sustainability, chair: G. Heydt; Future of Power Faculty, chair: C-C Liu; Outstanding Power Educators, chair: M. Crow; and National Science Foundation. Tom also reported that there were concerns expressed at the SC meeting about the NAPS papers being adequately reviewed. He provided an update of the chair selection for NAPS09. Also he reported on the NSF reorganization in EEC and that there is a search underway for Kevin Tomsovic's replacement.

Student Meetings Activities: Bill Rosehart reported on the T&D06 student program activities. There were 44 sponsored students, 12 participated in the student poster session. Further he reported that at the GM06, there were 96 sponsored students with 48 participating in the student poster session. 268 students were registered for the conference. Grainger Foundation and IEEE funding levels increased but there is limited local committee funding for GM06 and PSCE06.

Bill also reported that better and earlier coordination with the local organizing committee (LOC) is needed. Also they should consider alternative hotels and more activities for students. Lastly coordination between conference registration, sponsorship, and poster activities is needed. Bill also stated that he will work on the first draft of the manual for the local organizing committee related to student meetings.

Bill further reported that the SC would like to have a permanent location for the web page on the PES website with technical support. The webpage would allow multiple log-in and separate log-in for advisor support. He was directed to contact Susan Sacks at the PES

Executive Office to pursue this option. Lastly he mentioned a goal to increase the number of undergraduate students participating in the sponsored programs.

Finally Bill reported that there is good coordination with the PSCE06 LOC. There will be a faculty, student, and industry dinner (at a cost of \$10) instead of a luncheon. Also they will be providing student support for NAPS06 but, as is typical, there is no coordination with the LOC.

University Education Activities: Jeffrey Selman reported on discussions of the SC on mentoring. They feel there is limited mentoring going on at the PES meetings between faculty, industry, and students. They recommend that at future meetings the student program should include more contact, especially between industry representatives and students to enhance the mentoring process. Further he reported that the SC discussed the need for Power Engineering Programs to be reviewed on an ongoing basis and updated to attract engineering students to pursue careers in Power Engineering. New technology should be introduced as early as possible (ie: introduce power electronics/drives into the program early on).

Lastly Jeff reported that the SC decided to organize a panel session, possibly in conjunction with the Career Promotion and Workforce Development Subcommittee, for the PES General Meeting in Tampa, Florida in 2007 titled: "Modernizing the First Course in Power Systems". Jeff Selman agreed to chair and organize the panel session. Dr. El-Sharkawi agreed to be a panelist and recruit two European professors to be on the panel. Other possible professors/industry representatives that will be invited include: Ned Mohan, Prabha Kundar, and Marisa Crow.

Reports from PEEC representatives to Other Organizations:

Pete Sauer reported that the Power and Energy magazine is soliciting articles. Gerry Heydt mentioned that the Power Review had a dedicated page for PEEC. That has not been present in the P&E magazine. Pete stated that he was sure that Mel (the editor) would be open to including a PEEC article, if provided.

Mani Venkata reported on the legacy transactions database. He stated that 1975-1987 transactions are being put in IEEE Explore and should be available soon. 1952-1975 should be available in early 2007. Further he stated that it usually takes 60 days for a conference proceeding to become available in Explore after submittal. A IEEE Power and Energy Library is now available to corporate members.

Noel Schulz reported on behalf of the Governing Board. Students can get one year free PES membership. A new form is available on the PES website. There is a new IEEE graduate student grade membership which has the same benefits as members.

Old Business:

The student projects publication that was proposed by NDR Sarma at an earlier meeting was discussed. It was concluded that IEEE does not have a mechanism for web-based publication. Vijay suggested that we defer to other existing venues for this student publication idea.

New Business:

The venues for the upcoming PES meetings were given: NAPS06 at Southern Illinois University; GM07 – June 24-28, 2007, Tampa; NAPS07 – New Mexico State University; GM08 – Pittsburgh; GM09 – July 2009, Calgary

Vijay discussed the Power Systems Basics Course Update report which was provided as a written report in the absence of Fred Denny. (see attached)

Jim McCalley reported on the Power Engineering Resources Survey. To date, there had been 75 respondents with 45 surveys completed. The last time the survey was conducted, there were 115 respondents. He will extend the deadline to July 1.

Mani Venkata informed the group that Arun Phadke is the chair of the Technical Committee Advisory Board which is discussing future meetings. PEEC members should consider being a member of the board.

Bob Thomas provided an overview of the data collected by the Task Force that performed an analysis of the Blackout of 2003. Cornell University will archive the data electronically with various levels of access. Data is being cataloged by librarians who do not have technical expertise. He requested that we discuss how PEEC members could get involved with the data cataloging. Vijay suggested that Bob write up an article on this for submittal to P&E magazine on behalf of PEEC.

Vijay discussed the Long Range Planning Document. He stated that the long range planning document focuses on 4 strategies for building the future of IEEE PES:

- Strategy A: Improve PES organizational nimbleness and effectiveness
- Strategy B: Develop and delivery relevant, practical and accessible information
- Strategy C: Increase interaction between academics and industry
- Strategy D: Boost the power engineering image

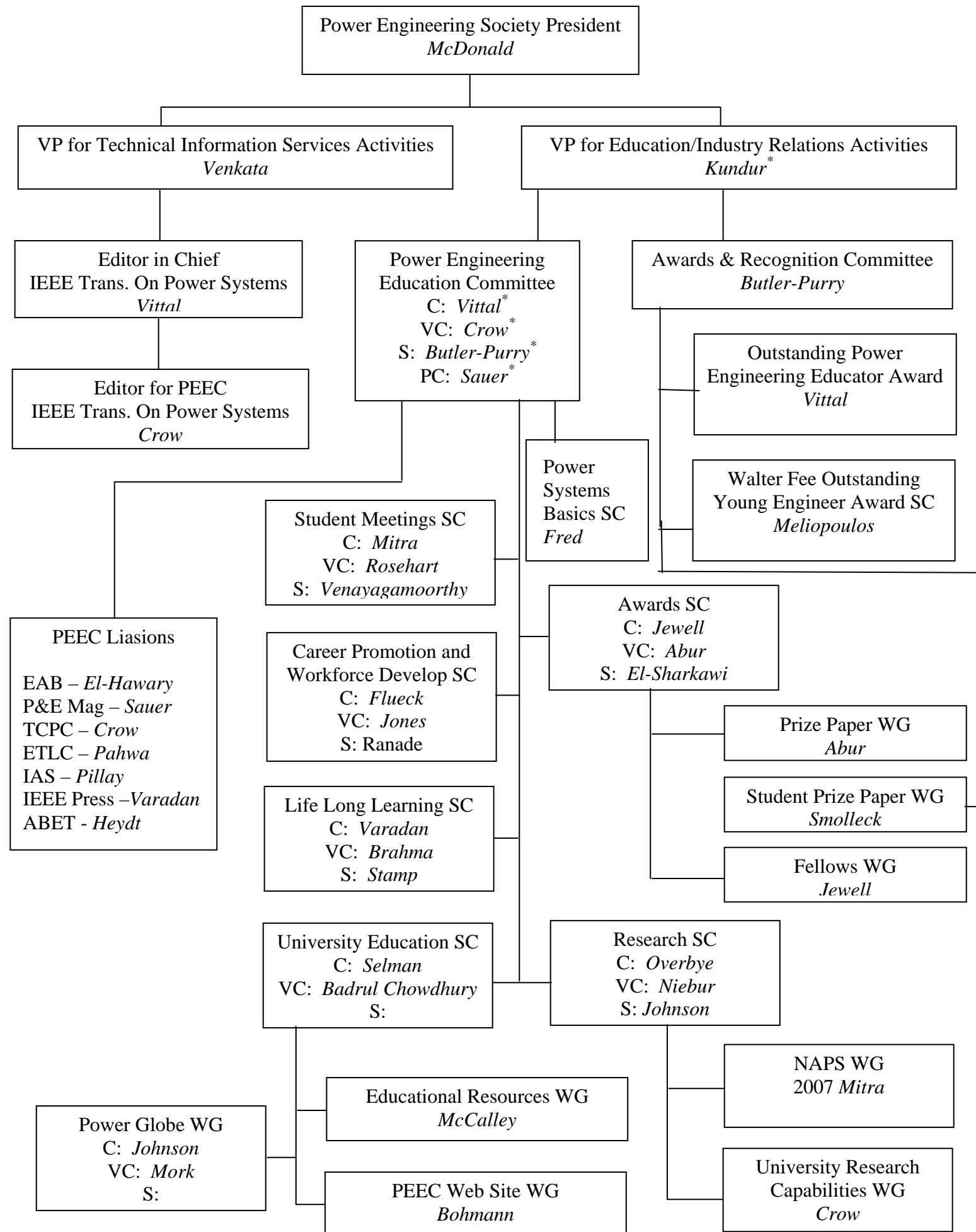
Items for discussion will be available at the PEEC website and will be discussed at future meetings. They can also send comments to the secretary.

The meeting was adjourned at 4:00 pm.

Respectfully submitted,  
Karen Butler-Purry

**In Attendance:**

A. Abur  
K. Bhattacharya  
K. Butler-Purry  
B. Chowdhury  
M. Crow  
S. Ellis  
M. El-Sharkawi  
M. Etezadi-Amoli  
A. Feliachi  
A. Flueck  
A. A. Girgis  
G. Heydt  
B. Jeyasurya  
E. Kyriakides  
P. Lehn  
E. Makram  
M. Nehrir  
D. Niebur  
T. Overbye  
A. Pahwa  
R. Ramakumar  
B. Rosehart  
H. Salehfar  
P. Sauer  
N. Schulz  
S. Suryanarayanan  
R. Thomas  
S. Varadan  
S. S. Venkata  
V. Vittal  
D. O. Wiitanen  
Z. A. Yamayee



## *Meeting Notice and Agenda*

IEEE/PES

### **Power Engineering Education Committee Main Meeting**

Tuesday, June 20, 2006

2006 IEEE/PES General Meeting – Montreal, CANADA

2:00 – 4:00PM

518C Palais des congrès

### **Agenda**

1. Introduction of attendees
2. Announcements  
PEEC events to attend at Montreal: Panel, Paper and Poster sessions  
Recognition of award winners: Educator of the Year, Fellows, NAE members
3. Approval of the minutes of the 2005 GM and NAPS meetings (Copies attached)
4. Vice-chair report on paper reviews
5. Secretary report on membership list and directory updates
6. Subcommittee reports and requests for inputs on future activities:  
Awards: Pahwa  
Life-Long Learning: Varadan  
Career Promotion and Workforce Development: Flueck  
Research: Overbye  
Student Meeting Activities: Mitra  
University Education Activities: Selman
7. Reports from PEEC representatives to other organizations
8. Old business:
9. New business:  
NAPS06, T&D06, GM07, NAPS07  
Discussion of Long Range Planning Document  
Fred Denny – Power Systems Basics Course Update
10. Adjourn

REPORT ON THE POWER SYSTEMS BASICS COURSE  
PREPARED FOR THE PEEC MEETING AT THE JUNE 2006 GM IN  
MONTREAL

During the last 6 months I have had a number of conversations with John McDonald, Bob Dent, John Estey, Steve Blume, and others regarding the "POWER SYSTEMS BASICS COURSE." I sat in on the course and assisted the instructor, Steve Blume, when he presented the course at the T&D conference in Dallas in May. I see my role as PSBC chair involving:

1. Coordination with IEEE PES and PEEC leaders and IEEE staff regarding the development of policies for the course, future plans for the course, etc.
2. Assistance in presenting the course including:
  - a. meeting room and equipment set-up
  - b. distribution of course books (handouts)
  - c. development of course certificates
  - d. development of PDH forms
  - e. answering questions (administrative and technical)
  - f. distributing and summarizing course evaluation forms
  - g. filling in as instructor if the instructor is delayed for some reason
3. Assistance in marketing courses including:
  - a. telling attendees about future course offerings and answering their questions
  - b. obtaining "testimonials," pictures, etc. to use in future course brochures
  - c. identifying the need for other courses or changes to existing courses
  - d. discussing strategies for marketing with future conference organizers
  - e. developing brochures for marketing the course

At this point I have begun to do most of these things. I have suggested that we should remove the part of the course name that says, "...for non-engineering professionals." I think that one of the primary audiences for the course is engineering professionals from other fields (mechanical, chemical, civil, etc.). Another key audience for the course is electrical engineers who are not "up to speed" in the power and energy field. With this logic in mind, I drafted the following to be used in future brochures:

If you are an up-to-date power systems engineer you probably don't need this course. However, if you are not an up-to-date power systems engineer but you are involved with or interested in any aspects of energy policy, industrial power systems and equipment, or utility power systems and operations then YOU DEFINITELY NEED THIS COURSE!)

It has become apparent that utility purchasing people and accountants are good target audiences for this course. We plan to put more emphasis on USMA, UPMG, and other

purchasing and stores associations. We also plan to focus on spreading the word through the IEEE IAS and the IEEE Sections (the regional side of IEEE).

I will be pursuing these things during the coming months. I plan to go to future course offerings in Atlanta (PSCE Oct 2006) and Tampa (GM June 2007)

Fred

Fred I. Denny, Ph.D., P.E.  
Chair, Power Systems Basic Course Subcommittee of PEEC