IEEE/PES Power and Energy Education Committee

Main Meeting

Tuesday, July 23, 2013
2013 IEEE/PES General Meeting – Vancouver BC, Canada
10:00 am-12:00 pm
VCC East – East Meeting Room 16

Minutes

Meeting started at 10:00 am

1. Introduction of attendees.
2. Announcements
   Review of PEEC events at the Vancouver meeting: Tutorials, Panels, Paper and Poster sessions
3. Recognition of award winners:
   PES Awards, IEEE Fellows, NAE members:
   • IEEE Herman Halperin Electric Transmission and Distribution Award
     Vijay Vittal
   • IEEE Charles Proteus Steinmetz Award
     Mohindar S. Sachdev
   • IEEE PES Outstanding Power Engineer Educator Award
     Saifur Rahman
   • IEEE PES Outstanding Young Engineer Award
     Gabriela Hug-Glanzmann
   • IEEE PES Nari Hingorani FACTS Award
     Edson H. Watanabe
   • IEEE Power & Energy Society Ramakumar Family Renewable Energy Excellence Award
     Vladimiro Miranda
   • IEEE PES Roy Billinton Power System Reliability Award
     Ron Allan
     Anil Pahwa (co-author)
   • IEEE PES Richard Harold Kaufmann award
     Kaushik Rajashekara
   • NAE Members: Tom Overbye
4. Approval of the minutes of the 2012 GM and NAPS meetings
   Vittal moved to approve, Suryanarayanan seconded; minutes were approved unanimously.

5. Editor’s report on paper reviews – Pahwa: TPWRS, Johnson: Conferences
   Pahwa:
   Pahwa’s term as editor is for 6 years. PEEC officers will select a replacement after his term expires. 110 abstracts submitted for the TPWRS Special Issue on Education, 47 papers were invited, 35 papers were submitted. Review is under way.

   Johnson:
For GM 2013, 14-15 papers were submitted to PEEC. Some of these were transferred to other technical committees based on their content. Seven conference papers were accepted. These papers, along with 4 transaction papers, were scheduled in a paper forum and a paper session.

Out of six proposed panels, four were accepted and planned at GM 2013.

Number of submitted papers has gone up dramatically. A decision was made to accept 50% of the submitted papers. There was significant discussion about the process related to this decision by the Technical Committee.

6. Secretary report on membership list and officers' updates
   University Education SC – Zareipour rotated out in January 2013. New officers are
   C: Dominguez-Garcia, VC: Kyriakides, S: Islam
   Career Promotion and Workforce Develop SC – Srivastava rotated out in January 2013. New officers are
   C: Tate, VC: Khushalani-Solanki, S: Cecchi
   Student Activities SC – Suryanarayanan will rotate out after GM 2013. New officers are
   C: Srivastava, VC: Solanki, S: St Leger.

7. Subcommittee reports and requests for inputs on future activities:
   a. Awards: El-Sharkawi
      • No applications for Fellows were received.
      • Best paper award: It was suggested that our community should nominate the Best Paper Award. We can go back about five years and see if there are deserving papers that can be nominated.
      • Anurag Srivastava, Siddharth (Sid) Suryanarayanan, and Hamidreza (Hamid) Zareipour were recognized for their services as SC chairs.
   b. Life-Long Learning: Nair (Sauer reported)
      SC scope has changed a lot to include all PES educational offerings. They are working on the structure within LLLSC to be able to handle these offerings. The SC will simply focus on quality control. All other related activities will be taken care of by Susan Koval from the PES staff.
   c. Career Promotion and Workforce Development: Tate
      • A discussion on training of young engineering graduates took place in the SC meeting. A panel on Best Practices for Training Young Engineers is proposed for T&D 2014. The panel will include industry representatives who will share how they train their newly recruited engineers. Targeted audience is Industry professionals.
      • SC members explored the idea of collecting and archiving details of senior design projects. This will help motivate other students.
   d. Research: Nwankpa
      • The SC may propose 4 panels for GM, one for T&D, and two for ISGT.
      • A discussion took place in their SC meeting focusing on how an organized effort can be made to contact higher level people at NSF, DOE and DOD to have better presence of the power systems community in Washington DC, and to promote the power systems area at the federal level to ensure more research funding in future.
   e. Student Meeting Activities: Suryanarayanan
      • The SC had a budget of $100K this year. Approximately 248 students were supported at GM 2013 out of 370 applicants, and 193 posters were presented. Eighty judges responded. The SC will be able to support NAPS this year with $20 K, because there is no T&D or PSCE this year.
• Due to budget constraints they have become exclusive in funding students. Deadlines are made hard. Prize money amounts were reduced to accommodate more students.
• Grainger renewed their financial commitment for 3 more years. They will provide $75K if PES matches the amount. This will increase the SC budget.
• Sauer said PES is working on a way to help students from regions 8, 9, and 10 to get a part of their conference expense funded.

f. University Education Activities: Dominguez-Garcia
• The SC is proposing 3 panels next year. They are planning to distribute these among T&D, GM and ISGT.
• Education Resource Survey WG met at the end of their SC meeting, and discussed future directions based on the data received.
• Alex Flueck plans to create Student Ambassador Program for undergraduate students. Students will be asked to submit a 1-minute video to show how their generation of students will change Power and Energy area in future.

8. Reports from PEEC representatives to other organizations
   None

9. Dates for Future Conferences and Meetings
   a. NAPS 13 - Manhattan, Kansas, September 22-24
   b. GM 14 - Washington DC, July 27 – 31
   c. NAPS 14 - Pullman, WA, TBD
   d. T&D 14 - Chicago, April 14-17

10. Proposed Plans for GM14
    None discussed beyond the SC plans already reported.

11. Presentation by Sue Kemnitzer, Deputy Director of ECCS at NSF
    • NSF is looking for a program director with Power background.
    • They want to learn from us what NSF should be doing for the education community. A white paper describing our research needs could be submitted.
    • Some pilots for reviewing proposals are being tested to come up with a better model, since reviewers are hard to find.
    • IUCRC program was discussed briefly.

12. Old business
Crow, Sauer: University Research Capabilities Database Plans
Database is out of date. It will be combined with PEEC survey on Educational Resources, which will include research expertise of faculty.

Sauer: PEEC Survey on Educational Resources
WG met during University Education Activities SC meeting. It was decided that some results should be published on web after asking the respondents’ permission. Since the data are not enough to measure trends with confidence, the Transaction paper will be attempted after getting more data.

It was suggested that all data right from the inception of this survey be used to find trends. Kevin Tomsovic will commit someone from UT Knoxville to help with this task.

13. New business
Sauer: Certification Program for the Smart Grid
Perfect Power Institute in Chicago has approached us to certify people to be smart grid engineers. Do we want to do that? This will be discussed more at NAPS 2013.
Pahwa: Potential Impacts of MOOCS
This will be discussed at NAPS 2013.

14. Adjourn at 12:05 PM.