

Draft minutes for 2015 IEEE PESGM PEEC Research Subcommittee Meeting
July 26, 2015
2 - 4 pm
Plaza Court 3, Denver, Colorado

PEEC Research Subcommittee Attendee List (July 26, 2015)

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1. Introduction

Chair Kai Strunz opened the meeting at about 2:10 pm. Those present introduced themselves.

2. Approval of minutes from the 2014 meeting

Leon Bohmann (MTU) moved to accept it. Chika Nwankpa seconded, and the members presented voted in favor of approving the minutes.

3. Announcements — panel session or tutorials

- Monday afternoon – a workshop on how to effective IEEE fellow nomination (Mariesa Crow);
- Tuesday 2:30pm --Publication government meeting (Mariesa Crow)
- Meetings related to smart village were popular in PESGM. Smart village promotes electricity access to remote villages (Anil Pahwa).
- Wednesday night -- Annual women faculty dinner (Noel Schulz)
- NSF has an opening for a director. Division director. (Noel Schulz)
- Solar energy exposition (Noel Schulz)
- Wednesday 1-5pm --Panel “Collaborative panel on renewable energy with Colorado State University” (Sid Suryanarayanan)

4. NAPS Report

- NAPS 2014 was held at Washington State University on September 7-9, 2014. Anurag Srivastava submitted the report and gave a brief report. Members expressed gratitude towards WSU team’s work: The NAPS 2014 program is well done.
- The upcoming NAPS 2015 will be hosted by University of North Carolina at Charlotte. Sukumar Kamalasan gave a brief report. A keynote speaker from Duke Energy will give a talk on Monday morning. There will be six breakout sessions for NAPS 2015. July 31 is the NAPS deadline. 160 authors have registered and 180 papers have been accepted.
- 180 accepted papers.
- 2018 NAPS meeting proposals are called. The decision will be made in August and announced in NAPS 2015.
- 2016 NAPS will be hosted by University of Denver. David Gao is the person in charge.
- 2017 NAPS will be hosted by West Virginia University.

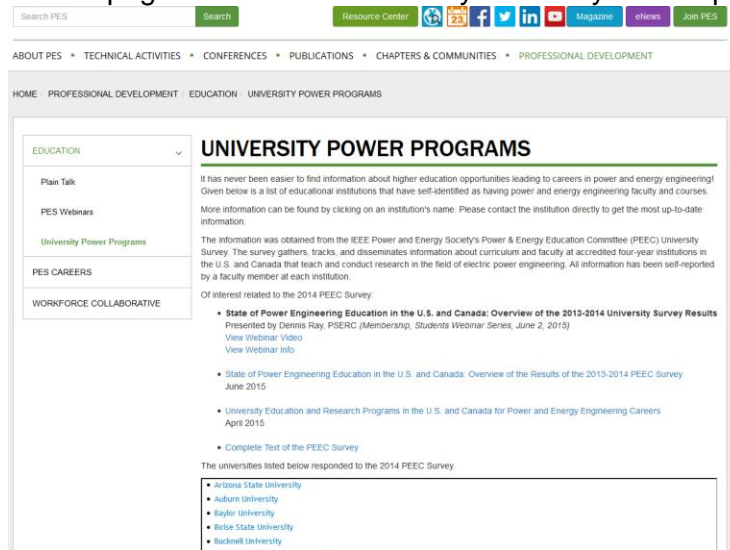
5. Subcommittee sponsored activities for the 2016 GM (Boston, MA July 17-21)

Proposed panel sessions for 2016

- Mariesa Crow proposed a panel on microgrid curriculum for GM 2016. Anil Pahwa mentioned that energy storage is a hot topic and checked if this group would invite some people for talks. Crow noted that people in energy storage area may opt to talk about electrochemistry while our focus is on the power side. Prof. Hashem Nehrir checked if there is a degree for microgrid study. Prof. Crow indicated that UNC already has a program in place. Gerald Heydt mentioned that he had organized the same panel for T&D and PESGM. People also mentioned the experience from New Zealand where Tesla was actively involved with local universities to develop program. Smart inverter is also mentioned.
- Nirmal Nair and Anil Pahwa volunteered to do a panel on energy storage in 2016 GM.
- Minguo Hong: potential panel on Buildings to Grid

6. Update on PEEC Survey by Pete Sauer

- 500 faculty and staff in US responded to the survey.
- Where is the survey: go to PES website, professional development, that will take you to a webpage → education → click on education → university power programs. Click on that another webpage → three links + every university that responded to the survey.



- Faculty should check their research interest. Sukumar has sent out a link in an email.
- Major conclusion by Dennis Ray: 40% of faculty are eligible for retirement in next five years. In terms of research, 76% government 24% industry. Mediums of reported funding: \$600,000 per university. \$50, 000 per person. For next three years, this area is a good condition and there are a lot of assistant professors. 70% of 500 faculty are adjunct professors, lecturers and emeritus. Ph.D students has been doubled since the first survey which was conducted many years ago.
- The members gave thanks to Pete, Sukumar (Brahma) and Dennis for putting this together.
- Suggestion from Anil Pahwa: in future, Ph.D student placement (how many go to industry. how many go to academic) are suggested to put into the database.
- Dennis suggested to make policies from the data.
- Sid suggested that the department heads be informed about the database.

7. Update on educational workshops— by Sid Suryanarayanan

- In 2014, Anil Pahwa put together a CPS workshop. 2015 CPS workshop was canceled due to logistic issues. Anil suggested Sid to be the contact person in Boston.
- George Karady discussed ASU's online lab for undergraduate students.
- Anil on future action — NSF is interested in funding online distance education on CPS.

8. Interaction with Program Managers

- NSF new manager of Energy, Power, Control and Networks (EPCN) is Eyad Abed

- DOE green energy grid integration, DOE Grid modernization are two programs related to this area.
- It is difficult to bring the managers to the subcommittee meeting.
- Vital suggested faculty to look at local labs. They may have flexible money to involve universities.
- Mani suggested collaboration with industry: If universities can keep in touch with the industry. The industry will collaborate with universities.
- Conclusion by Joydeep Mitra: the subcommittee will find a way to keep going and get the managers on webinar or offline recording. Mani recommended to use digital media to conduct conferences while travel becomes expensive. Chika suggested to influence NSF to appoint a power engineer as director.

9. Status of University Power Programs

- Oklahoma State hired two assistant professors.
- Arizona State University hired two young power electronics faculty.
- Texas A&M hired one new faculty.
- Washington State University has a new hire from U of Texas Austin. Total number: 8 power faculty.
- Syracuse has a new hire.
- U of Auckland has five openings, one for power systems one for power electronics.
- South Dakota State University hired a new faculty from Rhode Island
- Kansas State may have an open position.

10. Election of new Secretary

- Nominations were called for electing a new Secretary for the Research SC. Three nominations were received and a secret ballot was conducted. Le Xie from Texas A&M University was elected as the New Secretary.

11. Adjournment

The meeting was adjourned at 4pm.