ONR/NSF-Funded Faculty/Industry Workshop
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Agenda
Electric Energy Systems Curriculum
February 6-9, 2014
Napa Valley Marriott, Napa, California

Workshop Objectives:
- Discuss the Electric Energy Systems Curriculum with emphasis on Sustainability
- Describe and disseminate the developed undergraduate curriculum
- Describe the graduate curriculum being developed through ONR funding
- Create a large and vibrant community of teaching/learning scholars
- Provide details of various project tasks in conjunction with ONR 6.1 Program Review

Thursday, February 6, 2014 - Arrival

Friday, February 7, 2014
8:00-8:30 Welcome Remarks by Workshop Sponsors
- Dr. Peter Cho, Program Officer, Office of Naval Research (ONR)
- Dr. Kishan Baheti, Program Director, ECCS, NSF
8:30-9:30 Power-Related CUSP™ Curriculum - Ned Mohan, UMN
9:30-10:30 Open Discussion and Networking break
10:30-11:30 State-of-the-Art Software and Hardware Laboratories in Teaching:
- Power Electronics
- Power Systems
- Electric machines and Drives
- Power System Protection and Relaying
11:30-1:00 Networking and Lunch
1:00-3:00 ONR-funded Graduate Curriculum Development – Part 1
2. Graduate Course on Power Systems (Collaborative Effort Requested: Clark Gellings, Jay Giri, Merrill Hyde, Tom Overbye, Virgilio Centos, Chanan Singh, Udaya Annakage, Dharshana Mithumuni, Ram Adapa, Surya Santoso, Bruce Wollenberg, Eric John)
3. Power System Protection: Pratap Mysore, Bogdan Kasznerty
4. Designing Electric Machines: Jim Hendershot
5. Electric Machines and Drives - Modeling and Control: Ned Mohan
3:00-5:00 Poster Session and Reception

Saturday, February 8, 2014
8:00-8:20 Welcome Remarks and the Role of Online Education in Large Public Universities such as the University of Minnesota: Dr. Karen Hanson, Senior VP for Academic Affairs and Provost - UMN
8:20-10:00 Importance of Reform in Engineering and Electric Energy Education
- Dr. Pramod Khargonekar, Assistant Director and Head of Engineering Directorate - NSF
- Dr. Theresa Maldonado, Director of Division of Engineering Education & Centers - NSF
- Mr. Clark Gellings, Fellow, EPRI
- Mr. Gilbert Bindewald, DOE (invited)
- Dr. Dejan Sobajic, Technical Advisor - NYISO
10:00-10:30 Coffee break
10:30-12:00 ONR-funded Graduate Curriculum Development – Part 2
6. Electricity Markets: Ross Baldick
7. HVDC Transmission Systems: Ned Mohan
8. Power Generation, Operation and Control: Bruce Wollenberg
9. Wind Energy Essentials: Mark Ahlstrom, Kate O'Hair, Jennifer Entwistle, Ned Mohan, Steven W. Saylors, Mihailo Jovanovic, Peter Seiler, Sue Mantell, Henryk Stolarski, Roger Arndt, Mos Kaveh, Pratap Mysore, Matt Schuerger, Madhav Manjrekar
12. Synchrophasors, Wide Area Applications: Schweitzer Engineering Laboratories (requested)

12:00-1:30 p.m. Lunch and Working Group Meetings

- ECE Dept Heads/Engineering Deans Working Group: Chair – Dr. Sarah Rajala, Dean of Engineering, Iowa State University
- Curriculum Advisory Board: Chair – Pam Bagley, Great River Energy

1:30-2:30 Reports of the Working Groups and Discussion

2:30-5:00 Coffee + Open Discussion

6:00-8:00 Dinner; After-Dinner Speaker: Dr. Ellen Junn, Provost and VP for Academic Affairs, San Jose State University, on the topic of Experience with Online Education (MOOCs).

Sunday, February 9, 2014 - Departure

Location and Accommodations
The workshop will be held at the Napa Valley Marriott in Napa, California (newly renovated). A block of rooms has been reserved at the hotel. Three nights (Thursday, Friday and Saturday evenings only) of free lodging will be provided on a first-come basis to a limited number of the qualified U.S. ECE Department Heads and U.S. Power Faculty (tenured, tenure-track or adjunct faculty who are teaching Power Systems and related course(s) at a university in the United States). If you qualify for the complimentary lodging, we will arrange your reservation and send you confirmation. If you need to make changes to your reservation, please contact Emily Strong at cceconf3@umn.edu.

Industry Participants
The procedure for industry participants to register is the same as that for the faculty. While registering online, in the box where it asks for courses that you teach, simply indicate Industry Participant. Note that our grant will not be able to cover your lodging. However, we will make your hotel reservation for you and send you confirmation. The hotel group room rate is $149 (plus tax) per night for single and double rooms. This rate is available 3 days before, and 3 days after the workshop, on a space available basis. If you need to arrange for special requests, or need to make changes or additions to your reservation, contact Emily Strong at cceconf3@umn.edu.

Poster Session
You are invited for a poster presentation on any relevant topic at this workshop, including, for example, a poster briefly describing your research projects. Members of the DOE-sponsored universities, led by UMN, are particularly encouraged to present their projects. Further information to the registrants will be provided for submission after the registration deadline.

Registration Fees and Deadlines
$195 early registration rate by December 15, 2013
$245 late registration rate after December 15, 2013
$50 guest reception and banquet fee

- Register online now.

All registrations are accepted online and must be received by January 6, 2014. When you register for the workshop, you will receive an email confirming your registration for the workshop. You will receive your hotel confirmation numbers approximately one month before the workshop. If you need to cancel your registration, a refund, minus $30, will be issued if you cancel by January 21, 2014. Cancellations after this date will not be eligible for a refund.

For Registration Questions, Contact Heather Dorr or Emily Strong 612-624-3492 or cceconf3@umn.edu

For Technical Information, Contact Professor Ned Mohan 612-625-3362 or mohan@umn.edu