

Agenda
NSF/NAE-Sponsored Faculty/Industry Workshop
(Organized by the University of Minnesota)
www.cusp.umn.edu



Reforming Electric Energy Systems Curriculum with Emphasis on Sustainability
April 9-10, 2015 National Academy of Sciences ([NAS](#)) Building, Washington, DC

Workshop Objectives:

- Discuss the Electric Power/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, April 9, 2015

- 8:00-10:30 Welcome Remarks and Importance of Reform in Electric Energy Education:
Session Moderator - CDR John Stevens, United States Naval Academy (USNA)
- Dr. C.D. Mote, Jr., President, National Academy of Engineering (NAE)
 - CAPT Lynn Petersen, Program Officer, Office of Naval Research (ONR)
 - Dr. Eyad Abed – Program Director, National Science Foundation (NSF)
 - Dr. Jeff Matthews, Global Engineering Director at Cummins Power Generation
 - Mr. James Soeder, Senior Technical Fellow for Power at Glenn Research Center (NASA)
 - Dr. Tim Heidel, Program Director (ARPA-E)
- 10:30-11:00 Networking; coffee
- 11:00-12:00 Power-Related CUSP™ Curriculum - Ned Mohan, University of Minnesota
- 12:00-1:30 p.m. Lunch (provided)
Working Group Meetings:
- Curriculum Advisory Board, Chaired by Dr. Jeff Matthews, Cummins Power Generation
 - ECE Dept Heads/Engineering Deans Working Group, Chaired by Dr. Mostafa Kaveh, Associate Dean, College of Science and Engineering, University of Minnesota
- 1:30-2:30 Reports of the Working Groups and Discussion
- 2:30-3:00 p.m. Dr. Ananth Iyer, Faculty Director of PurdueNExT on delivering online courses aimed at global audience
- 3:00-3:30 p.m. Networking; refreshments
- 3:30-4:00 p.m. Prof. Steve Campbell (University of Minnesota) on PV Technologies and Outlook: Mostly Sunny with Scattered Clouds
- 4:00-4:30 p.m. Dr. Arshad Mansoor - Senior VP, Electric Power Research Institute (EPRI)
- 4:30-5:00 p.m. Laboratories Developed at the University of Minnesota
- 5:00-6:00 p.m. Learning/Teaching through Virtual Classrooms and Open Discussion: Moderator - Ned Mohan

(Continued on the next page)

Friday, April 10, 2015

- 8:30-9:30 Electric Energy Education Requirements for Electric Ships
- Dr. Tim McCoy, Consultant
 - Professor Chris Edrington, Electric Ship Research & Development Consortium
- 10:00-12:00 Wide Band Gap (WBG) Revolution in Power Electronics
Session Moderator - CAPT Lynn Petersen, Office of Naval Research (ONR)
- Mr. Joseph Weimer, Air Force Research Lab, Wright Patterson Air Force Base
 - Dr. Anant Agarwal, DOE-EERE
 - Mr. Eric Persson, International Rectifier
 - Dr. Isik Kizilyalli, Avogy Inc.
 - Dr. Fritz Kub, Naval Research Lab (NRL)

12:00 Adjournment

Accommodations

A block of rooms is being reserved at the following hotels at **\$209/night** plus taxes for two nights (Wednesday April 8 and Thursday April 9 evenings only) with the cut-off date of **March 9, 2015**. In order to get this rate, please make the reservation yourself. The block of rooms is limited and available on a first-come, first-served basis.

Courtyard by Marriott at Tysons Corner 1960-A Chain
Bridge Road, McLean, VA 22102

Crowne Plaza at Tysons Corner 1960 Chain Bridge Rd.
McLean, VA 22102

Two nights (Wednesday and Thursday evenings only) of *free* lodging will be provided only at these designated hotels on a first-come, first-served basis to Engineering Deans and ECE Department Heads in U.S. universities, and Power Faculty (tenured or tenure-track faculty who are teaching Power Systems and related courses at a U.S. university). Those eligible for free lodging must also make the reservation themselves. The procedure to reserve a room at one of the two hotels mentioned above is on our website (www.cusp.umn.edu). Please don't wait for the deadline since the rooms blocked are limited in number.

Industry and Other Participants

The procedure for industry and other participants to register is the same as that for the faculty. Note that our grant will not be able to cover your lodging. There is no registration fee.

Registration Fee: None, but everyone must register. The procedure to register will soon be on our website (www.cusp.umn.edu). **Deadline: March 9, 2015.**

Location: This workshop will be held at the National Academy of Sciences Building, Washington, DC.



([click here for address](#))

Transportation Information:

Airport – Ronald Reagan Washington National Airport (DCA)

Hotels - within a few minutes' walk to the Tysons Corner Metro station

NAS Building – near Foggy Bottom-GWU Metro station

Metro System Map - <http://www.wmata.com/rail/maps/map.cfm>