



Power Systems Engineering Research Center

Industrial Advisory Board Meeting

**December 5-7, 2007
Howard University
Washington, D.C.**

The Power Systems Engineering Research Center (PSERC) is a university-industry collaboration focusing on research and education needs in the electric power industry. Its Industrial Advisory Board (IAB), composed of PSERC's industry members, meets twice per year with PSERC researchers and students to conduct Center business, and to engage in discussions about the Center's research and education activities. At the upcoming meeting, presentations will be made on project proposals and on completed projects. There will also be a special current topics session entitled "Maintaining a Reliable Grid: Actions Taken and Challenges Ahead." As with other PSERC meetings, this will be an opportunity for stimulating discussions on research and education ideas, for getting caught up on PSERC activities, and for conversations on current issues facing the electric power industry.

Objectives

The objectives of this IAB meeting are to:

- Recommend new research projects beginning in 2008
- Learn about the status of current PSERC research projects and education activities
- Hear presentations on completed research
- Facilitate interaction among researchers, industry members, and students

Attendees

The IAB meeting is attended by university researchers (including Center management from each university and project leaders), industrial members of PSERC, students, and invited guests.

Orientation Session

Everyone is invited to attend the PSERC orientation session on Wednesday afternoon, December 5. Non-members will have the opportunity to meet one-on-one with a university researcher after the poster session on Thursday afternoon to learn more about PSERC.

Host

Our local host for the IAB meeting is [Howard University](#).



Agenda

Wednesday, Dec. 5 (East Ballroom, Blackburn University Center, Howard University)

- 1:00 - 3:30 **Optional Project Team Meetings.** Tours of Howard available upon request.
- 3:30 - 4:15 **PSERC Orientation**
- 4:15 - 5:15 **Systems Stem Committee Meeting**
- 5:15 - 6:15 **T&D Technologies Stem Committee Meeting**
- 6:15 - 7:30 **Reception** (as Dinner)
- 7:30 - 8:30 **Markets Stem Committee Meeting**

Thursday, Dec. 6 (East Ballroom, Blackburn University Center, Howard University)

- 7:30 - 8:30 **Registration and Continental Breakfast**
- 8:30 - 8:45 **Welcome** – James H. Johnson, Dean, College of Engineering, Architecture and Computer Sciences, Howard Univ.
- 8:45 - 9:15 **PSERC Update** - Vijay Vittal, Director
- 9:15 - 10:15 **Proposal Presentations**
The 21st Century Substation Design - Mladen Kezunovic (Texas A&M Univ.)
Substation of the Future: A Feasibility Study - Sakis Meliopoulos (Ga. Tech)
- 10:15 - 10:30 Break
- 10:30 - 12:00 **Proposal Presentations**
Using PMU Data to Increase Situational Awareness - Tom Overbye (Univ. of Illinois)
Special Protection Schemes: Limitations, Risks, and Management - Jim McCalley (Iowa State Univ.)
Technical and Economic Implications of Greenhouse Gas Regulation in a Transmission Constrained Restructured Electricity Market - Ward Jewell (Wichita State)
- 12:00 - 1:00 **Lunch**
- 1:00 - 2:15 **Maintaining a Reliable Grid: Actions Taken and Challenges Ahead**
Mark Hegerle, Acting Director of the Compliance Division, Office of Reliability, Federal Energy Regulatory Commission
Patricia Hoffman, Acting Chief Operating Officer and Deputy Director, R&D Division, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy
Rick Sergel, President and CEO, North American Electric Reliability Corp.
- 2:15 - 3:30 **Poster Session**
- 3:30 - 5:30 **Closed IAB Meeting**
- 5:30 – 8:00 **Reception (5:30) and Dinner (6:30)** in the Blackburn University Center

Friday, Dec. 7 (East Ballroom, Blackburn University Center, Howard University)

7:30 - 8:00 **Continental Breakfast**

8:00 - 8:30 **Feedback from the IAB Business Meeting**

8:30 - 9:30 **Project Presentations**

On Line Stability Determination and Control - Vijay Vittal (Arizona State Univ.)

Reliability, Electric Power, and Public vs. Private Goods: A New Look at the Role of Markets - Bill Schulze (Cornell University)

9:30 – 9:45 **Break**

9:45 – 10:45 **Project Presentations**

Effective Power System Control Center Visualization - Tom Overbye (Univ. of Illinois at Urbana-Champaign)

Satellite Imagery for the Identification of Interference - George Karady (Arizona State Univ.)

10:45 **IAB Meeting Adjourns**

11:15 - 1:00 **Executive Committee Meeting** (for PSERC university site directors)

Information for Planning Your Attendance at the IAB Meeting

Howard University

Howard University is located in Washington, D.C., north of the capital area ([area map](#)). The meetings will be held in the East Ballroom of the Blackburn University Center, 2400 Sixth Street, N.W. Here some links to information that you may find useful:

[Explore Howard University](#)

[Directions to Howard Univ.](#)

[Campus Maps](#)

Hotel

Hotels are accessible to Howard University via a short taxi ride. Many hotels are close-by in the area near DuPont and Scott Circles, and 14th St. and M St. NW, southwest of Howard University. A selected list of hotels in the D.C. area is attached for your reference.

Local Transportation to and from Howard University

Taxis will be the most convenient form of transportation to and from your hotel. There is a [Metro](#) stop ([Shaw-Howard University on the Green Line](#)) about six blocks from Howard. Campus parking will be available for \$4 per day. More information about how to get parking will be sent to you after you register.

Safety

Like any university or urban setting, normal precautions should be taken to protect your safety, particularly at night. Howard Univ. Campus Police provide common sense [security suggestions](#). Taxis can be used to get to and from the Blackburn Center where the meeting will be held. Walking from the Shaw-Howard University Metro stop during the day should be fine. For those people choosing to drive to campus, be aware that parking will be in [Lot V](#) which is about a six minute walk from the Blackburn Center. Walking to the lot will have to be at night if you attend the evening events on Wednesday or Thursday; however, there are well-lit streets to the lot.

Airport Transportation

The closest airport is Ronald Reagan Washington National Airport. The National Airport stop on the Blue and Yellow [Metro](#) lines is by the airport. Taxis are also available.

Registration

The registration fee is \$195 for all IAB members, faculty, staff and invited attendees. The fee is waived for students. The fee covers the continental breakfasts, breaks, receptions, dinner, and materials. There is a \$40 charge for your dinner guest on Thursday night. You can pay by check or by credit card. A receipt will be available at the IAB meeting. **Please register by November 15.** [A form is available for registration.](#)

Meeting Materials

As materials become available for the meeting, they will be posted for PSERC members on the [PSERC website](#). Presentation handouts will be available for all participants at the meeting.

Additional Information

For logistical questions and requests, contact [CESaC](#), 202-806-5350 (301-367-9448 if you cannot reach someone in CESaC). You can also email Peter Bofah (pbofah@yahoo.com) or James Momoh (jmomoh@howard.edu). If you have general questions about registration, the meeting agenda or PSERC, please contact Dennis Ray, PSERC Executive Director, at 608-265-3808 or djray@engr.wisc.edu.

Some D.C. Area Hotel Ideas

(Note: There are other nearby hotels around Dupont Circle, Scott Circle, and 14th St. NW and M St. NW.)

Special Rate Hotel

Howard University has a special rate at:

Holiday Inn - Central (1.5 miles from Blackburn Center)

1501 Rhode Island Avenue, NW
Washington D.C. 20005
202-483-2000
1-800-248-0016

Note: Limited availability so call ASAP.
Also, 5 blocks from Metro stop.

Hotels Suggested by Howard

Henley Park Hotel (1.4 miles)

926 Massachusetts Ave. NW
Washington DC 20001
202-638-5200
800-222-8474

Hilton (Embassy Row) (2.1 miles)

2015 Massachusetts Ave. NW
Washington D.C. 20036
202-265-1600

Red Roof Inn (1.7 miles)

500 H Street NW
Washington D.C. 20001
202-289-5959

Washington Plaza (1.6 miles)

10 Thomas Circle NW
Washington, DC 20005
202-842-1300
800-424-1140

Other Nearby Hotels

Comfort Inn (1.5 miles)

1201 13th St. NW
Washington, DC 20005
202-682-5300

Crown Plaza Hotel (1.8 miles)

The Hamilton-Washington DC
14th and K Streets NW
Washington, D.C. 20005
202-682-0111
800-972-3159

Homewood Suites (1.6 miles)

1475 Massachusetts Ave. NW
Washington D.C. 20005
202-265-8000

Hyatt Regency Washington on Capitol Hill (2.6 miles)

400 New Jersey Ave. NW
Washington, D.C. 22205
202-737-1234

Courtyard by Marriott-Embassy Row (1.6 miles)

1600 Rhode Island Ave. NW
Washington, D.C. 20036
202-293-8000

Residence Inn by Marriott (1.6 miles)

1199 Vermont Ave. NW
Washington, D.C. 20005
202-898-1100

Washington Renaissance Hotel (1.7 miles)

999 Ninth Street NW
Washington D.C. 20001
202-898-9000