Industry Advisory Board Meeting

December 2-4, 2015
Texas A&M, College Station, TX

The Power Systems Engineering Research Center (PSERC) is a university-industry collaboration focusing on research and education needs in the electric power industry. Its Industry Advisory Board (IAB), composed of PSERC’s industry members, meets twice per year with PSERC researchers and students to conduct PSERC business, and to engage in discussions about the Center’s research and education activities.

Objectives and Highlights

This meeting’s principal focus is on proposed projects for funding beginning in 2016. The objectives are to:

- present proposals and obtain industry’s recommendation on new research
- communicate status of current PSERC research projects and education activities
- discuss new research needs and ideas
- promote collaboration among researchers, industry members, and students.

Networking among industry, faculty and students will occur throughout the meeting. Posters on current research activities will give industry members an opportunity to meet students and faculty involved in the PSERC research projects. Industry members will help in the selection of the best project poster presented by students. Industry members will be able to connect with students about job or internship opportunities during a mini-job fair.

Attendees

The IAB meeting is attended by PSERC’s industry members and university researchers, students from PSERC universities, and invited guests. Individuals from companies that are considering PSERC membership are invited to contact PSERC about attending.

Host

Our local host for the IAB meeting is Texas A&M University.
December 2015 IAB Meeting Agenda

Wednesday, December 2 (Hilton College Station & Conference Center)

1:30 – 2:00  Registration
2:00 – 2:50  PSERC Orientation Presentation for All Participants
3:00 – 4:00  T&D Technologies Stem Committee Meeting
Ward Jewell, Chair, Wichita State Univ.; Jeff Fleeman, Vice-Chair, AEP
4:00 – 5:00  Markets Stem Committee Meeting
Shmuel Oren, Chair; UC Berkeley; Jim Price, CAISO, Vice-Chair
5:00 – 6:00  Systems Stem Committee Meeting
V. Ajjarapu, Chair, Iowa State Univ.; Baj Agrawal, Vice-Chair, Arizona Public Service Corp.
6:00 – 7:30  Dinner Reception (Hilton College Station & Conference Center)
6:30 – 7:30  Mini-Job Fair for Power Engineering Students
7:30 – 9:00  Executive Committee Meeting

Thursday, December 3 (Memorial Student Center, TAMU, Room 2300 D&E)

7:15 – 8:00  Registration and Breakfast
8:00 – 8:15  Welcome to Texas A&M University
8:15 – 8:50  Director’s Comments and PSERC Update
Vijay Vittal, PSERC Director, Arizona State Univ.
8:50 – 10:15  Proposal Presentations
10:15 – 10:30  Break
10:30 – 12:00  Proposal Presentations
12:00 – 1:00  Lunch
1:00 – 2:30  Proposal and Student Presentations
2:30 – 3:45  Poster Session with Discussions on On-Going PSERC Projects
3:45 – 5:00  Closed Industry Business Meeting (IAB members only)
5:00 – 6:00  Reception
6:00 – 8:00  Dinner

Friday, December 4 (Memorial Student Center, TAMU, Room 2300 D&E)

7:15 – 8:00  Breakfast
8:00 – 8:15  Feedback from the IAB Business Meeting
8:15 – 9:30  Presentations
Establishing Software-Based Real-Time Simulation Platform for Controls Laboratory for Training, Research and Development, and Experimentation (PSERC Project T-54G) - Ali Mehrizi-Sani (Washington State Univ.)
Dynamic Performance of an All Converter Power System – Vijay Vittal
9:30 – 10:30  Tutorial: Power Quality with Smart Grids and Distributed Generation
Ward Jewell, Wichita State University
10:30  Adjourn
Wednesday Evening: Mini-Job Fair between Students and IAB Members

From 6:30 to 7:30 pm on Wednesday evening, in conjunction with the reception, interested IAB members are invited to engage in conversations with students who may be pursuing potential internships or career opportunities, or just wanting to talk about careers in power and energy engineering. Typically about 40 students from PSERC universities attend IAB meetings.

Poster Session, Thursday afternoon, December 3

Posters will include PSERC project status reports and student research projects. The on-going PSERC projects that will have posters include:

Project Posters (linked to project summaries)

- Markets for Ancillary Services in the Presence of Stochastic Resources (M-31)
- New Operation Tools for Improving Flexibility and Reliability of Systems with Variable Resources and Storage Devices (M-32)
- Reliability Metrics for Renewable Resources and Self-Reserves (M-33)
- Risk Assessment of Constraint Relaxation Practices (M-34)
- Hybrid Time Domain Simulation: Application to Fault Induced Delayed Voltage Recovery (S-58)
- Sparse Sensing Methods for Model-Free Sensitivity Estimation and Topology Change Detection using Synchro-Phasor Measurements (S-59)
- Load Model Complexity Analysis and Real-Time Load Tracking (S-60)
- Advanced Cyber-Physical Analysis for Smart Grid Distributed ICT and IED Resources at RTE France (S-63G)
- Monitoring and Maintaining Limits of Area Transfers with PMUs (S-64)
- Real Time Synchrophasor Measurements Based Voltage Stability Monitoring and Control (S-65)
- Representation, Modeling, Data Development and Maintenance of Appropriate Protective Relaying Functions in Large Scale Transient Stability Simulations (S-66)
- Cloud Data Sharing Platform (S-67G)
- Reliability Assessment and Modeling of Cyber Enabled Power Systems with Renewable Sources and Energy Storage (T-53)
- Setting-less Protection (Part I): Centralized Substation Protection (T-55G)
- Setting-less Protection (Part II): Field Demonstrations (T-56G)
- Life-cycle Management of Mission-Critical Systems through Certification, Commissioning, In-Service Maintenance, Remote Testing, and Risk Assessment (T-57HI)
Information for Planning Your Attendance at the IAB Meeting

Registration (Click here to register on-line. Early bird rate ends November 10.)

Before November 10, the early bird registration fee is:
- $250 for all attendees
- No charge for students (eligible students - only from PSERC universities).

After November 10, the registration fees are:
- $325 for all attendees
- $50 for students.

Additional charges:
- $20 charge for students to attend the Thursday night dinner
- $40 charge for dinner companions of all attendees including students

The fee covers your meals, breaks, receptions, and materials.

Venues

On December 2, sessions and reception will be held at the Hilton College Station & Conference Center. On December 3 and 4, the Memorial Student Center (MSC) at 275 Joe Routt Blvd on the Texas A&M campus will be used for sessions and dinner. Here is a link for locations on and around campus: http://aggiemap.tamu.edu. Click here for a google map link.

Hotels (reservation deadline: November 10)

Rooms have been blocked at a discount rate ($129/night) at the Hilton College Station & Conference Center located at 801 University Drive East, College Station, TX 77840; local phone (979) 693-7500. For reservations call the hotel or 1-800-HILTONS (1-800-445-8667). Request rooms under the group “PSERC-IAB”. Check-in time: 4:00 p.m. Check-out time: noon. You can request rooms with king or double/double beds.

Rooms at a government rate ($102/night) may be requested at the Vineyard Court Hotel located at 1500 George Bush Drive East, College Station, TX 77840; local phone (979) 693-1220. Request rooms under the group “PSERC-IAB”. Check-in time: 3:00 p.m. Check-out time: noon. Make your room reservation early! Rooms at both hotels only available until the room blocks are filled or November 10 whichever comes first.

There are a number of other hotels in the area. The list can be accessed at http://www.visitaggieland.com/hotels/.

Transportation to College Station from the Major Airports

Approximate driving distances to College Station are: Houston Intercontinental - 2 hours, Houston Hobby - 2.5 hours, Dallas DFW - 3.5 hours, Austin - 2 hours. Here is a link for driving directions from Austin, Dallas and Houston: http://engineering.tamu.edu/electrical/about/maps.

You can fly to College Station using American Eagle (from Dallas) or United Airlines (from Houston). Upon arrival at the airport, you may take a taxi, rent a car, or make arrangements with a hotel for transportation. The airport is 10 minutes away from the campus and 15 minutes from the Hilton and the Vineyard Court Hotel.
Local Transportation and Parking

On December 3 and 4, a morning and evening shuttle will be available from and to the Hilton, Vineyard Court, and the Memorial Student Center; however, carpooling is also encouraged. Please indicate whether you will need the shuttle service when you register for the meeting.

Parking is available for $2 per hour up to $15 max for the day in the University Campus Garage (UCG) near the Memorial Student Center (MSC). You can enter the garage at 1099 Houston St. or off of Throckmorton St. (which is a one-way street). Take a ticket as you enter. Use a pay machine to pay before re-entering your car. Use the validated ticket to exit. The pay machine accepts American Express, MasterCard, Visa, and Discover cards. Click here for more information about parking.

Meeting Attire and Wi-Fi

Meeting attire is business casual. Wireless internet service will be available.

More Information

For information about the meeting agenda or PSERC, please contact Dennis Ray, PSERC Deputy Director at djray@engr.wisc.edu or 608-265-3808. For logistical questions and requests, contact Dr. Andrea Kishné, Texas A&M University, at akishne@ece.tamu.edu or 979-847-9493. For questions about registration and payment, contact Theresa Herr at Theresa.Herr@asu.edu or 480-965-1643.