

Center for Power Systems Studies
Fall Meeting
MINUTES
Brookings SD – October 20, 2008

1. **Call to Order:** Steve Hietpas called the meeting to order at approximately 3:35 pm.

2. **Recording Secretary:** Jay Dring - Nebraska Public Power District.

3. **Roll Call:**

Steve Hietpas	CPSS Coordinator – SDSU
Dave Muggli	Basin Electric Power Cooperative
Larry DeKramer	East River Electric Power Cooperative
Dana Ralston	MidAmerican Energy Company
Dawn Grider	Missouri River Energy Services
Mike Sydow	NorthWestern Energy
Rick Johnson	Otter Tail Power Company
Todd Meyers	Western Area Power Administration
Ted Smith	Sioux Valley Energy
Blair Metzger	DGR and Associates, Co.
Jay Dring	Nebraska Public Power District

Members not represented: Black Hills Corporation, Heartland Consumers Power District, Xcel Energy

4. **Approve Agenda:**

Mike Sydow moved and Dana Ralston seconded to accept the agenda as submitted.

Motion carried.

5. **Approve Minutes of April 25th, 2008 spring meeting:**

Dana Ralston moved and Ted Smith seconded to accept minutes.

Motion carried.

6. **Coordinator:** The Coordinator's Report was included in the meeting packet. Some of the highlights of the report included:

- **Summer 2008: Faculty and Student Summer Projects/Research Update**
Hietpas:
 - Student Orientation June and July
 - Program Assessments matters
 - Preparation for 2009 ABET (accreditation) visit
 - Assist with design tasks for new Engineering Building
 - Planning for 2008 CPSS Regional Power Conference
 - Supervised MSEE students-FPGA based induction motor, permanent magnet AC motor drive, fault location for distribution systems.
 - Panelist at ONR/EPRI/AEP – sponsored faculty summer workshop
 - Serving on Board of South Dakota Electrical Council
 - Reviewed papers for IEEE transactions on Education , IEEE REPC, IEE and ASEE
- **Ropp:**
 - Wind Resource Assessment Network, working on new proposal for long term funding and possibly a different structure for WRAN
 - Helped establish Wind Application Center (WAC) at SDSU

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- Supervised one MSEE student and the first Ph.D. graduate power student
- Advised power related Senior Design Project (Background PV Battery Charger), currently working on 3 more projects (Ultra capacitor Storage or PV, PV charger)
- Complete another PV in the Parks project for Spring/Summer 2010
- Completed the DOE Renewable Systems Integration (RSI) project
- Published papers for IEEE Transactions on Energy Conversion, IEEE PV Conference, and IEEE Power Engineering Society.
- Presenter at November 2008 Minnesota Power Conference
- Serve on the board of South Dakota Energy Infrastructure Authority

- Power – Faculty Course Update
 - Hietpas:
 - Fall 2008
 - EE 420/420L (3-1 cr) Electronics III and Lab, 7 students
 - EE 430/430L (3-1 cr) Electromechanical Systems and Lab, 21 students
 - Spring 2009
 - EE 221/221L (3-1 cr) Circuits II and Lab
 - EE 315/ (3 cr) Linear Control Systems

 - Ropp:
 - Fall 2008
 - EE 320/320L (3-1 cr) Electronics I and Lab, 16 students
 - Spring 2009
 - EE 434/434L (3-1 cr) Power Systems and Lab

- Scholarship Activity
 - Recipients for Fall 2008: Wicks, Lowe, Bockorny, Kramer, Graff, Galinat, Boese, Wulf, Groninger, Cozine, Duffy, Dold, Mekuria

- Status of Power Students – Graduated Fall 2007/Spring, Summer 2008
 - Patrick Cisar – Larson Binkley, Overland Park KS
 - Lowell Dolney – Nebraska Public Power District, Columbus NE
 - Curtis Greenfield – Interstates Engineering
 - Russell Halgerson – Peoples Cooperative Services, Minnesota
 - Molly Houck – WAPA, Huron SD
 - Trevor Howard – WAPA, Huron SD
 - Ryan Jensen - Nebraska Public Power District, Brownville NE
 - Derek Bryant - Nebraska Public Power District, Norfolk NE
 - Aaron Giddings – ABB
 - Mathew Tesch – Ulteig Engineers, Fargo ND

Note – 29 students graduated in 2007-2008 with 10 obtaining employment in the power sector (~34%). Since the spring of 2000 to present, 50 of 232 (~22%) of SDSU EE graduates have pursued careers in the power industry.

- Review of CPSS Impact
 - CPSS Scholarships
 - Internship and/or Cooperative opportunities
 - Power System Analysis and Lab (EE434/434L)
 - Applied PV and Lab (EE436/436L)
 - Power Technology Tour
 - PV in the Parks Field Trip
 - Biannual Regional South Dakota Power Conference
 - Mini-Power Job Fair

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- CPSS Sponsored Design Projects
- Fall Awards Banquet
- Membership Activities
 - Currently 10 member companies and 18 associate members
 - Ulteig Engineers became an associate member starting 2008-2009
 - In discussions with ABB – Pete Famighetti
- Who's Who – [://cpss.sdstate.edu](http://cpss.sdstate.edu)
 - - Update your information as needed

7. **Conference Committee:**

Outgoing member: Ralph Hagge (Cannon)
2008-2009: Nate Jones (Heartland Consumers)
2008-2011: Steve Arbach (NorthWestern Energy)

8. **Special Project Committee:**

Outgoing member: Terry Texley (WAPA)
2008-2009: Ted Smith (Sioux Valley Energy)
2008-2010: Scott Mallard (WAPA)

9. **Budget Committee:**

Outgoing member: Blair Metzger (DGR)
2008-2009: Mike Sydow (NorthWestern Energy)
2008-2010: Rick Johnson (Otter Tail Power Company)

10. **Old Business:**

- **Conference Update and Mini Power Job Fair Update**
 - Approx. 59 attendees at this year's conference, representing 22 companies
 - The following companies participated in the Mini-Power Job Fair – Ulteig Engineers, Interstates Engineering, WAPA, NPPD, Otter Tail Power Company, Cooper Power Systems
- **2008-2009 Budget Report:**

Mike Sydow moved and Dave Muggli seconded to accept revised 2008-2009 budget.

Motion carried.

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11. *New Business:*

- ***New Member Application – Minnesota Power:***

Dana Ralston moved and Mike Sydow seconded to accept Minnesota Power as a Member of CPSS starting July 1 in FY 2009-2010.

Motion carried.

- ***Member and Associate Member of the Year Process Review***

Mike Sydow moved and Larry DeKramer seconded to form a committee to propose ideas on selecting future Member and Associate Member of the Year award recipients.

Discussion: The group felt an awards committee of CPSS members should be created to propose a process of selecting Member and Associate Members of the Year.

There was a question raised – was the award intended to be given to a company or an individual – answer – both.

The following CPSS members will be on this committee and determine the best way to carry this proposal forward:

Mike Sydow (NorthWestern Energy)

Ted Smith (Sioux Valley Energy)

Dawn Grider (Missouri River Energy Services)

Motion carried.

- ***Research/Projects at SDSU and the CPSS***

No motion on this item. NOTE – Dr. Hietpas will work with the CPSS special project committee on this item and determine if there are projects more closely related to power industry applications.

- ***2007-2008 Financial Report and 2008-2009 Financial Status Report:***

Blair Metzger moved and Mike Sydow seconded to approve the 2007-2008 Financial Report and 2008-2009 Financial Status Report.

Motion carried.

- ***Place/Date for 2009 Spring Meeting – April 16, MidAmerican Energy, Sioux City***

12. *Adjourn:*

The meeting adjourned at approximately 5:20 pm with a motion by Dana Ralston and seconded by Ted Smith.

Motion carried.

Respectfully submitted,

Jay Dring, Nebraska Public Power District
Recording Secretary
October 20, 2008
Typed and Submitted October 31, 2008