

Center for Power Systems Studies -- Fall Meeting
COORDINATOR'S REPORT
October 16, 2006

To: Members of Center for Power Systems Studies
Associate Members of Power Systems Studies
All those in attendance at this meeting

The Center for Power Systems Studies is entering into its 39th year of operation. Below is a summary of some of the past years power-related activities and events, since the semiannual meeting.

I. Summer 2006: Faculty and Student Summer Projects/Research Update

Hietpas

- a. As Electrical Engineering Coordinator worked on orientation with students during June and part of July.
- b. Worked on conference materials and on-line registration.
- c. Attend an NSF Power Systems Education workshop at the U of M
- d. Chaired committee to hire a permanent technician for the WRAN project

Ropp

- a. Took 10 students to Wrangell-St. Elias NP in Alaska to install PV during month of July 2006
- b. Working towards adding at least three more WRAN sites by the end of 2006, possibly including another East River tower.
- c. On sabbatical at Sandia Nat'l Labs until spring of 2007

II. Power-Faculty Course Update

Hietpas

Fall 2006:

1. EE420 (3 cr) *Electronics III*, 10 students
2. EE430 (3 cr) *Electromechanical Systems*, 19 students

Spring 2007:

1. EE315 (3 cr) *Linear Systems*
2. EE434/EE434L (4 cr) *Power Systems Analysis*

III. Fall 2006: Scholarship Activity Update

Recipients for Fall 06

Seniors	Juniors	Sophomore	Freshmen
Jack Winter	Lowell Dolney	Corey Kramer	
Austin Hoekman*	Trevor Howard		
Daniel Lewis-Coomes	Molly Houck		
	Derek Bryant		

* Indicates recipient of the \$3000 Center for Power Systems Studies Award
Spring 07 applications are being submitted within the next six weeks.

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IV. Status of Power Students

a. Spring 2006 Power Graduate Update

Student	Place of Employment
Wes Wingen	Black Hills Power
Douglas Larson	Electrical Consultants, Inc.
Jerad Johansen	Not Decided

Of 18 students that graduated in the spring, 3 declared power as their career path, which is 17% of the graduating seniors. Since the spring of 2000 to present, 22 of 116 (approximately 19%) of SDSU EE graduates either obtained or have pursued a career in power.

b. Returning Power Students -- Summer Intern Update (2006)

Student	Est. Grad. Date	Place of Employment
Tanner Knecht	F06	MidAmerican Energy, Council Bluffs Energy Center
Jack Winter	S07	WAPA
Austin Hoekman	S07	Heartland Consumers Power District
Lowell Dolney	F07	Otter Tail Power
Pat Cisar	F07	Journeyman Electrician, Sioux Falls
Molly Houck	F07	WAPA, Watertown
Trevor Howard	F07	Central Power Electric Coop Minot ND
Derek Bryant	F07	Daktronics
Corey Kramer	S08-F08	Sioux Valley Hospital

V. Review of CPSS Impact

The student interest in the power area remains at a healthy level, but the overall number of students in Electrical Engineering is not strong, but holding at about 20 graduating students a year. The primary activities which seem to have the greatest impact on attracting students to the power area are **CPSS scholarships** and **Internship opportunities**. Students further into program become more interested when they either attend the **Annual Banquet**, the **Biannual Regional Power Conference**, or the **Power Technology Tour**. Lastly, once a student is fairly certain they have made a choice towards a career in power, they are further attracted through a **CPSS-Sponsored Design Project** and **Power Systems Analysis (EE434)**.

VI. Positions in Power Industry

In the last two months the following companies have contacted us to post positions on our EE website and are actively seeking to fill full-time engineering positions within their company.

- i. Interstates Company
- ii. Minnesota Power
- iii. Electrical Consultants
- iv. Brookings Municipal

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VII. Other scholarly/research activities related to power

a. Hietpas

1. Serves on the paper review committee for IEEE Rural Electric Power Conference.
2. Serves on the review committee of IEEE Transactions on Industrial Applications associated with the Rural Electric Power Conference.

b. Ropp

1. Actively working on the NSF-CAREER award for the next several years
2. Advising five power-related graduate student projects (renewable energy topics)
3. Serves on the review board for IEEE-1547.

Respectfully submitted,

Steven M. Hietpas, Ph.D., P.E.

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