

COORDINATOR'S REPORT

September 19, 2001

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

The Center for Power System Studies is entering into its 34th year of operation. The past year has seen a great amount of activity. Below is a summary of some of the events.

I. CPSS Related Activities for Summer and Fall 2001 Terms

- a. Spring Technology Field Trip went very well during the week of May 14-18. The following students attended: Justin Artz, Jesse Bialas, Travis Everson, Jordan Gass, Brian Grunewaldt, Andy Koob, Troy Metzger, Luka Radujko, Steve Springman, and James Ziebarth.
- a. Will be taking approximately 8 undergraduate students to the Minnesota Power Systems Conference in November of this year.
- b. Sudeep Pyakuryal (a graduate student from Nepal) is teaching Power Systems Analysis as a 3-credit course to our power students. Eight students are enrolled. Mr. Pyakuryal comes to SDSU with 8 years of utility experience from Nepal and is also working on the modeling of the Otter Tail power system in EMTP for assessing the introduction of wind turbines. The students taking this course are: Keith Crago, Travis Everson, Justin Johnson, Paul Konechne, Andy Koob, Troy Metzger, James Ziebarth

II. Students and the Power Community

- a. There remains considerable competition within our department for attracting and keeping students in the power program. We have seen a considerable increase in student interest in the power area, much of it due to the internship experiences our sophomore and juniors have been experiencing. Other opportunities also contribute to increased student interest in the power area:
 - i. CPSS scholarships and financial assistance (WEB Scholarship Form).
 - ii. The Minnesota Power Systems Conference.
 - iii. Design projects relating to electric power area.
 - iv. Field Trips/Tours.
- b. While good design projects are important, field trips continue to have a significant and positive impact on student's perception of the power community.
- c. The number of power related companies inquiring about prospective new hires continue to increase. This year we had the following individuals participating in an internship position:
Travis Everson (Interstates Electric) -- Senior
Adam Graff (MidAmerican Energy) -- Junior
Justin Johnson (MAPP) -- Senior
Cody Kinsley (WAPA-Huron) -- Junior
Paul Konechne (MidAmerican Energy) -- Senior
Andy Koob (MAPP) -- Senior
Troy Metzger (DGR) -- Senior
James Ziebarth (CPSS/EE Department) -- Senior
Matt Rust (WAPA-Huron) -- Junior

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III. Faculty in the power program and some highlights of their activities

- Steve Hietpas
 - Presented “Incorporating Electric Drives into the Electrical Machines Course: A Systems Level Approach,” ASEE Conference, June 25-28, 2001, Albuquerque, NM.
 - Managed the NSF grant for the redesign of all the electrical machine laboratory exercises. Supervised one graduate student in the design of an AC Induction Motor Drive and another student in the design of a DC Drive for a submersible pump with a PV source.
 - Supervised Sudeep Pyakuryal in the EMTP modeling of the Otter Tail power distribution system to consider the effects of introducing wind turbines into their system.
 - Supervised James Ziebarth, Nate Wriedt, Vijay Kambhammettu on the design of the new energy lab.
 - Worked with the design-build contractors during the summer overseeing the development of the new energy laboratory in the CEH building addition.
- Michael Ropp
 - Taught the Special Topics in Photovoltaics class, and took seven of those students to Yellowstone National Park to install the system they designed. The whole project was very successful and will be repeated next year.
 - During the summer, worked with students on power system modeling and islanding prevention projects. Resulted in a new anti-islanding device, and verification of the IEEE-929 standard and test procedure.
 - This semester, teaching Power Electronics as a graduate course.
 - This semester will install the Wind Resource Assessment Network and will initiate field verification activities on installed turbines.

Respectfully submitted,

Steven M. Hietpas, Ph.D.
Coordinator, Center for Power System Studies