To: Members of Center for Power Systems Studies  
Associate Members of Power Systems Studies  
Guests in attendance

The Center for Power Systems Studies is entering its 43rd year of operation. Below is a summary of some of the past years’ power-related activities and events, since the spring meeting.

I. Summer 2010: Faculty and Student Summer Projects/Research Update

Hietpas
a. Assumed Acting Department Head position in May
b. Conference committee planning for 2010 CPSS South Dakota Regional Power Conference.
c. Supervised one MSEE graduate student (Milan Maharjan) in the design of a Permanent Magnet AC Motor Drive (finishing fall 10)
d. Supervised one MSEE graduate student on Fault Detection project – left SDSU after one semester, received a higher GTA offer in Tennessee.
e. Serve on the board for the South Dakota Electrical Council
f. Serve as a paper reviewer for IEEE Transaction on Education, IEEE REPC, IEE, and ASEE.
g. Attended ABET PEV training in June. Evaluated an Electrical Engineering program in Sept. for ABET.

h. Presented poster/paper at IEEE-PES meeting in July

II. Power-Faculty Course Update

Hietpas

Fall 2010:
- EE430/430L (3+1 cr) Electromechanical Systems and Lab, 20 students

Spring 2011:
- EE221/L (4 cr) Circuits II
- EE315 (3 cr) Linear Systems
- EE434/L (4 cr) Power Systems

III. Scholarship Activity – Power Company Sponsored Scholarships

The department awards approximately $32,800 in scholarships. Approximately 55% of these funds are a direct result of the power community.

Recipients for 2010-2011 Academic Year

The Center for Power Systems Studies Scholarships

Bullis, Kevin

CPSS General Scholarships*

Seely, Bradley  Senior
Albares, Neil  Senior
Richter, Alexander  Senior
Wesley, Davis  Junior
Kostboth, Cory  Sophomore
Kleinjan, Ryan  Sophomore
Swensen, Jake  Sophomore

Bradley D. Schultz Power Engineering Scholarship
Seely, Bradley  Senior
Waltner, Drew  Junior
Langholz, John  Junior
Onnen, Jared  Junior

DeWild Grant Reckert & Associates Scholarship
Schmit, Scott  Junior
Vanderlugt, Karl  Junior

East River Electric Power Coop Scholarship in Honor of Virgil Hanlon
Richter, Alexander  Senior
Kleinjan, Ryan  Sophomore

Heartland Consumers Power District Scholarship
Kleinjan, Ryan  Junior

Interstates Electric & Engineering Scholarship
Vanderlugt, Karl  Junior

Jeffrey L. & Trudiann Nelson Scholarship
Albing, Andrew  Sophomore

John G. Kappenman Scholarship
Gackstetter, Amy  Sophomore

Otter Tail Power Company Scholarship
Mathews, Mark  Senior
Sorenson, William  Junior
Fitzpatrick, Richard  Sophomore

Xcel Energy Services Scholarship
Albares, Neil  Senior

* Spring 2011 General CPSS Scholarships will be awarded later in the fall 2010 semester.

IV. Status of Power Students

I. Power Graduates Update

<table>
<thead>
<tr>
<th>Student</th>
<th>Graduated</th>
<th>Place of Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banschbach, Peter</td>
<td>Spring 2010</td>
<td>Alternative Power Technology (APT), SDSU</td>
</tr>
<tr>
<td>Cozine, Steven</td>
<td>Spring 2010</td>
<td>Northern Plains Power Technology (NPPT), Brookings, SD</td>
</tr>
<tr>
<td>Galinat, Derrick</td>
<td>Spring 2010</td>
<td>Electrical Consultants Inc. (ECI), Billings, MT</td>
</tr>
<tr>
<td>Schneider, Ryan</td>
<td>Spring 2010</td>
<td>Charles Mix Electric Cooperative, Lake Andes, SD</td>
</tr>
<tr>
<td>Todd Bockorny</td>
<td>Fall 2009</td>
<td>DeWild Grant Reckert</td>
</tr>
<tr>
<td>Mark Braaksma</td>
<td>Fall 2009</td>
<td>RH2 Engineering, Washington</td>
</tr>
</tbody>
</table>
Of the 15 students that graduated in 2009-2010, 6 obtained employment in the power sector, which is 40% of this graduating class. Since the spring of 2000 to present, 64 of 268 (approximately 24%) of SDSU EE graduates either obtained or have pursued a career in the power industry.

II. Power Engineering Student Internships, Expected Graduation, and Recent Internships

<table>
<thead>
<tr>
<th>Student</th>
<th>Expected Graduation</th>
<th>Internship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ben Pierson</td>
<td>Fall 2010</td>
<td>Sioux Valley Energy</td>
</tr>
<tr>
<td>Kevin Bullis</td>
<td>Spring 2011</td>
<td>Raven Industries, Sioux Falls</td>
</tr>
<tr>
<td>Joseph Dold</td>
<td>Spring 2011</td>
<td>Larson and American Science and Technology (Brookings)</td>
</tr>
<tr>
<td>Matthew Bult</td>
<td>Spring 2011</td>
<td>SDSU Energy Lab Analysis</td>
</tr>
<tr>
<td>Neil Albares</td>
<td>Spring 2011</td>
<td>Monticello Nuclear Power Plant, Xcel Energy</td>
</tr>
<tr>
<td>Alex Richter</td>
<td>Spring 2011</td>
<td>Cooper Power Systems</td>
</tr>
<tr>
<td>Kleinjan, Ryan</td>
<td>Spring 2013</td>
<td>Did not have one after freshmen year, but is interested for</td>
</tr>
</tbody>
</table>

V. Review of CPSS Impact

1. CPSS scholarships – immediate attraction and attention getter
2. Internship and/or Cooperative opportunities – can have a positive or negative effect depending on the challenges provided to the student
3. Power Systems Analysis and Lab (EE434/434L) – First course dedicated just to power
4. Power Technology Tour – great exposure to a variety of power-related industries.
5. Biannual Regional South Dakota Power Conference – An excellent professional setting the introduces power students to the big picture
6. CPSS-Sponsored Design Project – hands on challenging designs
7. Fall Awards Banquet – A glimpse into the future for our students and shows importance of remaining connected to academia
8. Power Electronics (EE 492)
9. Something in the works – Innovation Engineers, Univ. of MN

VI. Membership Growth

- Currently 11 member companies and 17 associate members

Respectfully submitted,

Steven M. Hietpas, Ph.D., P.E.
Coordinator, Center for Power Systems Studies