

Monthly CREW Update: April 2012

Here is an update on past and upcoming activities as well as opportunities:

1. Seminar series:

On April 13, 2012, Prof. Dionysios Aliprantis from Iowa State University talked about “The Vienna Rectifier in Wind Energy Conversion Systems”. Prof. Aliprantis started off with the introduction of the Vienna rectifier, which is also called a 3-phase, 3-switch, 3-level rectifier. Two cases of Vienna rectifier were presented (a) with a squirrel-cage induction generator and (b) with a permanent magnet synchronous generator (PMSG). From the first case study, it turns out that using the Vienna rectifier would provide a ~1% increase in the power output compared to using a 6-switch rectifier (traditionally used). From the second case study, using a Vienna rectifier also appears to be preferable to using a 6-switch converter. Prof. Aliprantis further demonstrated the importance of using a Vienna rectifier with preliminary experimental results. The last part of Prof. Aliprantis’ talk was about the Wind Energy Science, Engineering, and Policy (WESEP) center, an IGERT 5-year program, recently funded by NSF.

Important note The recordings of all previous seminars are available on the CREW website at: <http://crew.colorado.edu/SeminarRecordings>

This link is also easily accessible from the CREW home page: <http://crew.colorado.edu/>

The seminar series will take a break for the summer but will be back in the Fall! Stay tuned for more info about the upcoming speakers!

2. Shared Research Program:

We were pleased to receive 9 proposals in response to our CREW Shared Research Call for Proposals that we issued in October 2011. Florence Bocquet, CREW Managing Director, coordinated the reviews and rankings of the proposals issued by the CREW corporate members. A number of projects were highly ranked by our industry members, and after revisions and further review, the top 3 proposals were selected for funding. For more info about selected projects, please visit the following webpage:

<http://crew.colorado.edu/SharedResearchAwards>

3. Outreach education:

On April 25, 2012, CREW in collaboration with NREL organized a tour of the National Wind Technology Center (NWTC) site for a group of 6th grade girl scouts from Angevine middle school, Lafayette, CO. The group of girls was interested in seeing wind turbines up close and learning about how they operate.

4. AWEA WindPower 2012 conference & exhibition will take place in Atlanta, GA on June 3-6, 2012. The new Scientific Director of CREW, Dan Zimmerle, is pleased to attend the event and will be meeting with a number of you!
We look forward to seeing you there!



5. The Remote Sensing Summer School in Wind Energy will take place at the University of Colorado, Boulder, USA, from June 11 - 15, 2012. Normally, this summer school is organized by DTU Wind Energy (formerly Risø DTU) in Denmark. Hence, this year the summer school is jointly organized by DTU Wind Energy and University of Colorado, Boulder. The summer school is intended for PhD students and members of the wind energy industry who are interested in understanding Remote Sensing for Wind Energy. For details and registration, please visit the following link:
<http://rasei.colorado.edu/windsummerschool2012>
Deadline for registration: May 1, 2012

6. The 2012 Western Energy Policy Research Conference will be on August 30-31, 2012. The Energy Policy Institute at Boise State University will host the event in Boise, Idaho. Nobel prize winning scientist Daniel M. Kammen will be the keynote speaker at the conference luncheon. The Call for Paper Proposals is now open, and travel assistance available for presenters can be available. More information is available at
<http://epi.boisestate.edu/conference>
Deadline for submitting proposals: May 4, 2012.

7. The World Renewable Energy Forum (WREF 2012), the premier international renewable energy conference, will be held in Denver, CO on May 13-17, 2012. Organizers are proud to share that renewable energy researchers from around the world have submitted more than 800 abstracts and proposals for an additional 158 panels, forums and workshops. This is spectacular response, more than doubles the number of papers submitted for the 2011 conference held last May in Raleigh, N.C. “We’re delighted to see that the level of participation reflects the vigorous progress in deployment of renewable energy technologies around the world,” noted Susan Greene, president of the American Solar Energy Society. “The conference is going to be a goldmine of information and networking contacts for renewable energy professionals, clean energy advocates and students.” Scientists, engineers, architects and economists from 66 nations and 37 states sent in proposals for presentations. The United States leads the count with 400 submissions, including 144 from national laboratories operated by the U.S. Department of Energy, and 191 from university faculty and students. For the first time, the American Solar Energy Society’s National Solar Conference will be held under the same roof with the biennial World Renewable Energy Congress. More than 2000 attendees are expected.



For more information about WREF 2012, and to register for the conference, please visit: www.wref2012.org

8. Please alert students, recent graduates, and colleagues to the following opportunity:
 - a. NREL's Residential Buildings Research Group is seeking outstanding postdoctoral candidates for our opening in Automated Home Energy Management research. For information (e.g., overview of the position, qualifications, and requirements) and to apply, search Requisition 2449BR at NREL's Employment site: <http://www.nrel.gov/employment/>
 - b. The Aarhus University School of Engineering organizes a number of international summer schools (every year in July and August) in close cooperation with industrial companies and other Danish institutions. Students from across the world travel to Denmark to explore a specific area of expertise and gain insight into the latest knowledge in the field. This year, four summer schools will take place: (a) wind turbine technology, (b) power, (c) smart district energy, and (d) biofuel production technology. For more information, please visit: <http://www.iha.dk/Summerschool>
 - c. Earth-related job search engine: EarthWorks is an extensive listing of physical science jobs. Numerous categories of interest: Renewable Energy, Electrical Engineering, Environmental Engineering, Climate/Atmospheric Science, etc. Please visit: <http://www.earthworks-jobs.com/>