

## **Monthly CREW Update: March 2011**

Here is an update on upcoming activities and opportunities:

**1.** Brad Cochran of CPP Wind will be giving our CREW seminar today (Monday), March 28, at 2pm, in Room B101 of the Natural Environmental Sciences Building at CSU. Brad will talk on "Modeling Airflow over Buildings for Rooftop Wind Turbine Applications." More information, including an abstract and directions and parking information, can be found at

[http://crew.colorado.edu/Newsroom/Events/2011Spring\\_Seminar3\\_BradCochran\\_CPP\\_Mar28.pdf](http://crew.colorado.edu/Newsroom/Events/2011Spring_Seminar3_BradCochran_CPP_Mar28.pdf)

**2.** Professor Daniel Zimmerle of CSU gave a very engaging CREW seminar on "Control of Wind Transients in Small Island Power Systems" on February 28. Dan talked about where and why islanded power systems are needed, gave a brief tutorial on generator control systems, discussed the control requirements at different time scales, and also presented some of his group's results in this area.

**3.** Our April CREW seminar will be given by Professors Paul Heyliger and Karan Venayagamoorthy of CSU. The seminar announcement will be sent out soon, and the information will also be posted to our CREW website at <http://crew.colorado.edu>

**4.** Please mark your calendars and plan to join us at our 3rd annual CREW Symposium on August 12, 2011 at NREL in Golden, CO. We will send out more information about the symposium over the next few months. The symposium will include sessions open to all where we will provide an update of our CREW activities, and there will also be sessions geared specifically for our CREW member companies to discuss results on the three 2010-2011 CREW shared research projects and on other activities.

**5.** We have now heard that our CREW IGERT full proposal, which was submitted to NSF in September 2010, has been declined. Reviews were overall quite positive, though there was some constructive criticism as well as some (unfortunately) politically-based criticism in the reviews. We were in the top 30 of 100 full proposals invited from approximately 500 pre-proposals. NSF is hoping to fund up to 18 new IGERTs, depending on how their budget pans out.

**6.** Please alert students, recent graduates, and colleagues to the following opportunities:

a. DOE announces two fellowship programs:

i. The Postdoctoral Fellowship Program, where DOE is seeking up to 20 postdoctoral fellows whose academic careers have focused on specific topics in the following technology areas: building efficiency, industrial efficiency, vehicles, fuel cells, biomass, geothermal, solar energy, and wind or water power. For more information on the EERE Postdoctoral Fellowship Program, please visit: [http://www.eere.energy.gov/education/postdoctoral\\_fellowships](http://www.eere.energy.gov/education/postdoctoral_fellowships) . Applications for EERE Postdoctoral Fellowships are due by June 30, 2011. Fellowships will begin by mid-November 2011 and will last up to two years.

ii. The SunShot Initiative (Science and Technology Policy) Fellowship Program will select either recent Masters or PhD graduates to work at DOE's Energy Technologies Program headquarters in Washington, DC, to help develop new research and development programs to achieve the goal of \$1 per watt utility-level installed photovoltaics by 2020. For more information on the SunShot Initiative Fellowship Program, please visit: [http://www.eere.energy.gov/education/stp\\_fellowships.html](http://www.eere.energy.gov/education/stp_fellowships.html) . Applications for the SunShot Initiative Fellowships Program are accepted on a rolling basis.

b. The Wind, Hydro, and Geothermal group at Idaho National Laboratory (INL) has alerted us that they have several engineering internship openings. In particular, go to <http://inl.gov/careers>, click on "Apply Now for INL Positions", and look at job IDs 6307, 6309, and 6310.

c. Idaho National Laboratory (INL) is seeking mid-career candidates for a senior technical position responsible for developing and leading programs in the area of energy system dynamics. This area of research is to focus on improving the efficiency, effectiveness, operability, and safety of energy conversion systems through the development and application of advanced dynamic design, modeling, and simulation techniques, coupled with methodologies in advanced dynamic system integration, monitoring, control, and optimization, including sensing, diagnostics, and prognostics. More information, including a phone number to call, about the position can be found at:

[http://www.energycentraljobs.com/seeker/job\\_detail\\_preview.cfm?cpane=11106&job\\_id=6228952E-1372-574A-8CB8F5181DEC29E0&requesttimeout=5000&CFID=5661946&CFTOKEN=59564643&utm\\_source=SimplyHired&utm\\_medium=organic&utm\\_campaign=SimplyHire](http://www.energycentraljobs.com/seeker/job_detail_preview.cfm?cpane=11106&job_id=6228952E-1372-574A-8CB8F5181DEC29E0&requesttimeout=5000&CFID=5661946&CFTOKEN=59564643&utm_source=SimplyHired&utm_medium=organic&utm_campaign=SimplyHire)  
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d. Texas Tech University has three positions open: The Don, Kay, and Clay Cash Foundation Engineering Chair in Wind Energy provides a unique opportunity for leadership of a national effort to focus attention on wind energy solutions to energy problems. The individual selected for the Cash Foundation Chair would also serve as

the Executive Director and President of the National Wind Resource Center (NWRC), a Texas Tech-established interdisciplinary research center. The university is also seeking two individuals, perhaps as a cluster hire with the Cash Chair, to help lead and increase institutional efforts in the wind energy area. Each selected individual will also have an appointment to the NWRC. Texas Tech is seeking innovative and creative faculty who can work in teams to address key issues in the development of sustainable wind energy systems. More information can be found at <http://www.depts.ttu.edu/coe/cash/description.php>

e. The Hassib J. Sabbagh Engineering Construction Excellence 2011 Award for Innovative Wind Power or Solar Power recognizes the noteworthy contributions in the field of Innovative Wind Power or Solar Power by an engineer or team of engineers on the basis of participation in the planning, development or construction of a successful project completed in the two to five year period prior to 31 January 2011. Nominations for the award must be submitted by May 31, 2011 to the World Federation of Engineering Organizations (WFEO). More information can be found at [http://www.wfeo.net/documents/46250\\_DEPLIANTSabbagh.pdf](http://www.wfeo.net/documents/46250_DEPLIANTSabbagh.pdf)

f. The Wind and Wildlife Landscape Assessment Tool (LAT) is a collaboration organized by the American Wind Wildlife Institute (AWWI) and The Nature Conservancy (TNC). The LAT is designed as a landscape-level planning tool to identify sensitive wildlife habitat and areas that are likely to have low wildlife risk where wind energy development could be prioritized. Although the siting of individual wind energy projects will require on-the-ground surveys to verify data shown here, the hope is that this tool will provide stakeholders with information that facilitates the siting of wind energy in areas with minimal impacts to wildlife, as well as the development of conservation plans, monitoring plans and mitigation strategies. For more information about LAT, please visit <http://wind.tnc.org/awwi/#>

Hope everyone enjoyed their spring breaks!