

Monthly CREW Update

August 2012

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

1. Annual CREW Symposium:

On Friday August 3rd, the 4th **annual CREW symposium** was held on the CSU campus (Colorado State University, Fort Collins, CO). More than 60 attendees, of which participants were from a dozen companies and a dozen institutions, joined in the event. Attendees were pleased to hear about the latest research projects, the new research initiative and enjoyed the networking opportunity amongst the rest of the event.



... We look forward to next year's Annual Symposium!

2. Seminar series:

This Fall semester the seminar series will take place on CU campus, at 10-11am, on the following Fridays: September 28, October 19, November 9 and December 7, 2012. As in the past, the seminars will be broadcast live.

Should you have any suggestions for speakers or topics of discussion, we would like to hear from you! Please contact Florence Bocquet at [hocquet at colorado dot edu](mailto:bocquet@colorado.edu) with your suggestions. Stay tuned for more info about the upcoming agenda!

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/>

3. Due to large scale deployment of smart meters, increasing penetration of renewable energy resources and aging workforce, the utility industry is facing challenges in the field of energy forecasting. To help the industry improve forecasting practices, Power Systems Planning and Implementation Committee (PSPI) and Power and Energy Education Committee (PEEC) are co-sponsoring the **Global Energy Forecasting Competition 2012 (GEFCom2012)**, which is being organized by IEEE Working Group on Energy Forecasting, a working group under PSPI Committee. The competition will

bring together the state-of-the-art techniques for energy forecasting, serve as the bridge to connect academic research and industry practice, promote analytics in power engineering education, and prepare the industry to overcome forecasting challenges in the smart grid world. The competition includes two tracks: load forecasting and wind forecasting. The competition starts on 8/31/2012 and ends on 10/31/2012.

For more information, please visit: <http://www.gefcom.org/>

The entry form is provided here:

<https://docs.google.com/spreadsheet/viewform?formkey=dDdWT1d1NGdnMXBxZ1VMaE4zYjhndUE6MQ>

4. Proposal solicitation from DoD, where the proposal submission will open on August 27, 2012. The objective of the program is to develop a process for real-time radar location of targets in cluttered environments, specifically air traffic targets in environments complicated by complex natural (e.g., hills and valleys) and manmade (e.g., wind turbines) features. For more information, please visit the two following websites:

<http://www.dodsbir.net/solicitation/default.htm>

and

http://www.dodsbir.net/sitis/display_topic.asp?Bookmark=43033



5. Proposal solicitation from DoE: DOE invites input from the public regarding currently lacking data and technologies for characterization of marine and hydrokinetic (MHK) and offshore wind energy resources in support of deployment of wind and MHK technologies.

For more information on the grant solicitation “Improving Marine and Hydrokinetic and Offshore Wind Energy Resource Data Grant”, please visit:

<http://www07.grants.gov/search/search.do?&mode=VIEW&oppId=188573>

or

http://www1.eere.energy.gov/financing/solicitations_detail.html?sol_id=540

Deadline for proposal submission: October 1, 2012



6. New Book Announcement: “Grid Integration and Dynamic Impact of Wind Energy” by Vijay Vittal and Raja Ayyanar, Arizona State University

Springer Series in Power Electronics and Power Systems

ISBN978-14419-9322-9 ISBN 978-1419-9323-6(e Book)

Wind based renewable energy generation has had a significant resurgence in the past decade. This is primarily due to advances in technology driven by the advent of variable speed wind turbine generators, which include doubly fed induction generator based wind turbines as well as full converter permanent magnet synchronous machine based wind turbines. This book presents an account of the salient aspects of the various wind turbine technologies, details of the associated power electronic converters and their controls, and a comprehensive discussion of the impact of wind turbine generators on system dynamic performance of the electric grid.

7. Please alert students, recent graduates, and colleagues to the following opportunity:

- a. NREL is looking for recent PhDs who may be interested in the Director's Fellowship program. The fellowship is designed to attract the next generation of exceptionally qualified scientists and engineers with outstanding talent and credentials in renewable energy research and related disciplines.
For more information about the program, please visit:
http://www.nrel.gov/rpp/directors_fellowship.html
Applications due: September 30, 2012 (for the January 2013 fellowship)
- b. 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/>
- c. 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.ihk.dk/Summerschool>
- d. 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/>

(If you wish to unsubscribe from our mailing list, please email Florence Bocquet at [hocquet at colorado dot edu](mailto:bocquet@colorado.edu))

