



**THE CHINESE UNIVERSITY OF HONG KONG**  
Department of Information Engineering

*Seminar*

**Smart Grid Research at Argonne National Laboratory**

by

**Dr. Jianhui Wang**  
**Argonne National Laboratory**  
**U.S.A.**

**Date : 26 May, 2014 (Mon.)**  
**Time : 3:00 - 4:00pm**  
**Venue : Room 1009, William M.W. Mong Engineering Building**  
**The Chinese University of Hong Kong**

*Abstract*

Argonne National Laboratory ([www.anl.gov](http://www.anl.gov)) outside Chicago is the first U.S. DOE national laboratory. Argonne has been engaged in power grid related research for over thirty years. In this talk, I will give an overview of the research activities on smart grid at Argonne. The scope of our work spans a multitude of areas including electric vehicles, buildings sciences, energy system planning, power system operations and planning. As an example, I will briefly describe how we use advanced optimization techniques to address certain power system operation problems such as home energy management. I will also introduce various collaboration opportunities available at the lab such as student internships, postdoctoral appointments, visiting faculty positions and collaborative projects.

*Biography*

Dr. Wang is an energy system engineer at Argonne National Laboratory. He is the chair of the IEEE Power & Energy Society (PES) Power System Operation Methods Subcommittee and co-chair of an IEEE task force on integrating wind and solar power into power system operations. He has authored/co-authored more than 100 journal and conference publications. He is an editor of the IEEE Transactions on Power Systems, IEEE Transactions on Smart Grid, Journal of Energy Engineering, IEEE PES Letters and Applied Energy. He received the IEEE Chicago Section 2012 Outstanding Young Engineer Award and is an Affiliate Professor at Auburn University and an Adjunct Professor at University of Notre Dame.

**\*\* ALL ARE WELCOME \*\***