EE 500E Energy & Environment Seminar

Title: *A Smarter Dispatch For Smart Grid*

Speaker: Xing Wang, Manager, Optimization Applications, ALSTOM Grid Inc.

Location: **MEB 238, UW campus**

Map: [http://www.washington.edu/maps/?l=MEB](http://www.washington.edu/maps/?l=MEB)

Time and Date: **4:30 PM, Thursday, November 17, 2011**

**Abstract:** Smart Grid is enabling more and more direct demand response, and renewable energy resources, which have offered challenges to the existing grid and market operation mechanisms, tools, models, and algorithms. Facing these challenges, large power grid and market operators are in the process of designing the next generation of dispatch systems with broader and higher capability to handle the uncertainties. A smarter dispatch system should be able to economically manage rapid changes in load, generation, interchange and transmission security constraints simultaneously on a real-time and near real-time basis. It is also expected that the system will flexibly incorporate various power forecast data sources including demand forecast and renewable generation forecast. The system can also provide “after-the-fact” analysis capability which helps improve the accuracy of resource dispatch.

**Dr. Xing Wang** is the Manager of Optimization Applications of ALSTOM Grid Inc, in Redmond WA. Dr. Wang has over 20 years’ experiences in the areas of Energy Management System (EMS) and Market Management System (MMS). He has been actively involved in many very large power grid control center EMS/MMS projects, including PJM, MISO, ISO-NE, SPP, ERCOT, TVA, etc. Dr. Wang is a member of Working Group 16 in IEC TC 57 and a senior member of the IEEE PES

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