



# 2011 Graduate Seminars

## Fall 2011

Seminars in Fall 2011 will be held on Wednesdays at 4pm in 102 EECH. FREEDM students and faculty are also encouraged to participate individually in FREEDM webinars (Wednesdays at 11am). There will also be a special 5-week session on systems engineering held at 11am on Wednesdays in 236 EECH, from October 12 through November 9. For more information, go to [www.freedom.ncsu.edu](http://www.freedom.ncsu.edu) and navigate to "webinars."

[Development of Optimal Controllers for a DFIG Based Wind Farm in a Smart Grid Under Variable Wind Speed Conditions](#) , 11/30/11, 102 EECH.

[Economic operation on FREEDM microgrid testbed](#) , 11/16/11, 102 EECH

[Microgrid Application with Computer Models and Power Management Integrated Using PSCAD/EMTDC](#) , 11/9/11, 102 EECH

[Developing New Control Design Methods for a Cascaded Converter System Comprised of Two dc-dc Converters Considering the Effects of Mutual Interactions](#) , 11/2/11, 102 EECH

[UCAP Integration into the UPQC system](#) , 10/26/11, 102 EECH

[Modeling and Control of Solid State Transformers](#) , 10/19/11, 102 EECH

[Development of Energy Management Control for a Fuel Cell Plug-In Hybrid Vehicle](#) , 10/12/11, 102 EECH

[Single Phase Inverter Modeling for Energy Storage Evaluation](#) , 10/5/11, 102 EECH

[Plug-in Hybrid Electric Vehicles: Charging Load Profile Extraction Based on Transportation Data](#) , 9/28/11, 102 EECH

[Stochastic Power System Transient Stability Analysis](#) , 9/21/11, 102 EECH.

[Special Seminar by Ameren](#) , 9/16/11 @ 2pm, 103 EECH

[Introducing the Z-Source DC Circuit Breaker](#) , 9/14/11, 102 EECH

## Spring 2011

Control and Modulation Schemes for High-Performance Electrical Drive Systems, 4/4/11, 137 EECH (Finley Room), [Grainger CEME Seminar](#)

[An Introduction to Pulsed Power and Energy Security Research at Sandia National Laboratory](#) , 2/24/11, 120 Butler-Carlton Hall

IAS meeting, Danfoss, [Power Electronics - The Present Status and Future Challenges](#), 2/14/11, 121 Butler-Carlton Hall