



# Wind Energy Symposium Agenda

Sponsored by UD Energy Institute

**February 27, 2013**

Clayton Hall Conference Center - University of Delaware



Time	Title of Presentation	Speaker
8:00 – 8:30 am	<b>Registration/Breakfast - Lobby</b>	
8:30 – 8:45 am	<b>UDEI Welcome and Opening Remarks - Rm. 120</b>	<b>Mike Klein</b> <b>Nancy Targett</b> , Dean College of Earth, Ocean, & Environment <b>Cristina Archer</b>
8:45 – 9:05 am	The Taming of Hurricanes by Arrays of Energy-Generating Offshore Wind Turbines	<b>Mark Jacobson</b> Atmosphere/Energy Program Stanford University
9:05 – 9:25 am	Finding the Least-Cost Combinations of Wind, Solar, and Storage to Reliably Power the Grid	<b>Willett Kempton</b> University of Delaware
9:25 – 9:45 am	Probabilistic Wind Power Forecasting	<b>Luca Delle Monache</b> Nat'l Center for Atmospheric Research
9:45 – 10:05 am	Metocean Data and Modeling to Advance Offshore Wind Energy: Challenges and Opportunities	<b>Bruce Bailey</b> , PhD AWS Truepower, LLC
10:05-10:30 am	<b>Refreshment Break- Lobby</b>	
10:30-10:50 am	Model Forecasting Accuracy Along an East Coast Offshore Grid Corridor	<b>Mike Dvorak</b> Sailors Energy
10:50-11:10 am	Integration of Wind Power to the Transmission Grid	<b>Hugo Simão</b> Princeton University
11:10-11:30 am	Improvement of Offshore Wind Resource Modeling in the Mid-Atlantic Bight	<b>Dana Veron</b> University of Delaware
11:30-11:50 am	Doppler Lidar Wind Measurements for Energy Applications	<b>Grady Koch</b> NASA
12:00-1:30 pm	<b>Lunch – Rm. 119</b>	
1:30 – 1:45 pm	Large Eddy Simulation of a Wind Turbine Wake in Neutral Turbulent Shear Flow	<b>Shenbgai Xie</b> PhD student - CEOE
1:45 – 2:00 pm	Large Eddy Simulations of Wake Effects due to Different Offshore Wind Farm Layouts	<b>Sina M. Sefat</b> PhD student - CEOE
2:00 – 2:15 pm	Using WRF to Explore Array Configuration Variations and Their Impacts on Power Output	<b>Joseph Brodie</b> PhD student - CEOE
2:15 – 2:35 pm	On Atmospheric and Wake Turbulence Impacts on Wind Turbine Fatigue Loadings	<b>Sang Lee</b> NREL
2:35 -2:55 pm	Measurements and Modeling of Wind Turbine Wakes	<b>Julie Lundquist</b> CU/NREL
2:55- 3:20 pm	<b>Refreshment Break- Lobby</b>	
3:20 – 3:40 pm	Collective Phenomena in Large-Eddy Simulations of power-Generation in Extended Wind Farms	<b>Richard Stevens</b> Johns Hopkins University
3:40 – 4:00 pm	Boundary Layer Research for Wind Energy Applications	<b>Branko Kosovic</b> Nat'l Center for Atmospheric Research
4:00 – 4:20 pm	Mesoscale Influences of Wind Farms Throughout a Diurnal Cycle	<b>Anna Fitch</b> UCAR
4:30- 5:00 pm	<b>Discussion/Closing Remarks</b>	<b>Cristina Archer</b>