

**WindTech 2017**  
**October 24 - 26, 2017**  
**Boulder, Colorado, USA**

Time	Lead Author/Speaker	Complete List of Authors	Title (Click for Abstract)	Full Presentation
<b>TUESDAY, OCTOBER 24, 2017</b>				
<b>PLENARY SESSION</b>				
<b>Haupt, Sue Ellen (Session Chair)</b>				
9:00 AM	Thompson, Michael	Welcome to NCAR		<a href="#">Click for full presentation</a>
9:10 AM	Haupt, Sue Ellen	Introduction to Boulder and NCAR Wind Energy Research		<a href="#">Click for full presentation</a>
9:30 AM	<b>Green, Peter (Plenary Speaker)</b>	<b>Peter Green, National Renewable Energy Laboratory (NREL)</b>	<u>Wind Energy: Navigating the compelling road ahead</u>	
10:00 AM	<b>Butterfield, Sandy (Plenary Speaker)</b>	<b>Sandy Butterfield, Boulder Wind Power, Inc.</b>		<a href="#">Click for full presentation</a>
<b>BREAK (10:30 AM)</b>				
<b>1.A: OBSERVATIONS FIELD CAMPAIGNS</b>				
<b>Lundquist, Julie (Session Chair)</b>				
11:00 AM	<b>Takle, Gene (Keynote)</b>	<b>Eugene S. Takle, Iowa State University, Bin Cai, Sri Sritharan</b>	<u>Wind Energy Potential at Six Locations in the Midwest US at Higher Hub Heights</u>	<a href="#">Click for full presentation</a>
11:30 AM	Bromm, Marc	<b>M. Bromm, For Wind – Carl von Ossietzky University of Oldenburg, Institute of Physics, Oldenburg, Germany, A. Rott, H. Beck, L. Vollmer, G. Steinfeld and M. Kuhn</b>	<u>Challenges in recording high quality wake flow measurements of a wind turbine in field experiments</u>	<a href="#">Click for full presentation</a>
11:45 AM	Rajewski (Presented by Gene Takle)	Daniel A. Rajewski, <b>Eugene S. Takle, Iowa State University</b> and Samantha L. Purdy	<u>Tall Tower Measurements of Wake Loss Characteristics Within a Low-Density Wind Farm</u>	<a href="#">Click for full presentation</a>
12:00 PM	Bodini, Nicola	<b>Nicola Bodini, University of Colorado Boulder, Dino Zardi and Julie K. Lundquist</b>	<u>Three-Dimensional Structure of Wind Turbine Wakes as Measured by Scanning Lidar</u>	<a href="#">Click for full presentation</a>
12:15 PM	Mikkelsen, Torben	<b>Torben Mikkelsen, DTU Wind Energy, Roskilde, Denmark, Tommy Herges, Poul Astrup, Mikael Sjøholm, and Brian Naughton</b>	<u>Wind field re-construction of 3D Wake measurements from a turbine-installed scanning lidar</u>	<a href="#">Click for full presentation</a>
<b>1.B: CDF APPLICATIONS 1</b>				
<b>Stoellinger, Michael (Session Chair)</b>				
11:00 AM	<b>Brasseur, PhD, Prof. Jim (Keynote)</b>	<b>James G. Brasseur, PhD, University of Colorado Boulder, Adam W. Lavelly, Tarak Nandi, Ganesh Vijayakumar, Balaji Jayaraman. Sue Ellen Haupt, Jared Lee, and Jon Keller</b>	<u>Wind Turbine Response across Scales: Simulation and Experiment</u>	
11:30 AM	Bastine (Presented by Joachim Peinke)	Bastine D., Vollmer L., Wächter M., and <b>Peinke J., AG TWIST, Institute of Physics, ForWind, University of Oldenburg</b>	<u>Stochastic Wake Model Based on POD Analysis</u>	
11:45 AM	Taylor, Timothy	<b>Timothy S. Taylor, Colorado School of Mines, Golden, CO, and Kathryn E. Johnson</b>	<u>Evaluating Instantaneous Wake Center Position Determination Techniques for Data from High Fidelity Simulation Models</u>	<a href="#">Click for full presentation</a>
12:00 PM	Lavelly, Adam	<b>Adam W. Lavelly, Pennsylvania State University, University Park, PA, Matthew Churchfield, Scott Larwood, Sven Schmitz</b>	<u>Validation of an Actuator-Line Tower Model for Upwind and Downwind Turbine Configurations and Wind Farms</u>	<a href="#">Click for full presentation</a>
12:15 PM	Yang, Xiaolei	<b>Xiaolei Yang, Department of Civil Engineering, College of Engineering and Applied Sciences, Stony Brook University, Stony Brook, New York and Fotis Sotiropoulos</b>	<u>Coordinated turbine control through axial-induction factor: wake characteristics and wind farm power optimization</u>	
<b>LUNCH BREAK (12:30 PM)</b>				

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<b>2.A: OBSERVATIONS AND MODELS</b>				
<b>Wilczak, James (Session Chair)</b>				
1:30 PM	Lundquist, PhD, Julie (Keynote)	Julie K. Lundquist, University of Colorado Boulder, H. J. S. Fernando, Laura Leo, Raghu Krishnamurthy, Rebecca Barthelmie, Sara Pryor, Thomas Gerz, Martin Hagen, Norman Wildmann, Ludovic Bariteau, Petra Klein, David Turner, Jakob Mann, Michael Courtney, Nikola Vasiljević, Robert Menke, Detlev Heinemann, Stephan Voss, Fotini Katopodes Chow, José Laginha Palma, José Carlos Matos, Steven Oncley, William Brown, Scott Spuler, Chris Hocut, Ed Creegan, Yansen Wang, Andre Pattantyus, Andreas Rettenmeier, Emily Norton, Margarida Belo, and numerous other hardworking scientists, engineers, graduate students, and undergraduate students	<a href="#">Unprecedented Observations of Complex Terrain Influences on Wind Resources and Wind Turbine Wakes: An Overview of the Perdigoão Field Campaign</a>	
2:00 PM	lungo, Valerio	G. Valerio lungo, The University of Texas at Dallas, Wind Fluids and Experiments (WindFluX) Laboratory and Said El-Asha, Stefano Letizia, Vignesh Santhanagopalan and Lu Zhan	<a href="#">Proactive monitoring of an onshore wind farm through LiDAR measurements, SCADA data and a data-driven RANS solver</a>	<a href="#">Click for full presentation</a>
2:15 PM	LoTufo, Julien	Julien LoTufo, WindEEE Research Institute, London, Ontario, Canada, Djordje Romanic and Horia Hangan	<a href="#">Non-Gaussian Turbulent Flow Over a Coastal Escarpment</a>	
2:30 PM	Cline, Joel	Joel Cline, U.S. Department of Energy, Washington, DC, Sue Ellen Haupt, and Will Shaw	<a href="#">Meteorology Research in DOE's Atmosphere to Electrons (A2e) Program</a>	<a href="#">Click for full presentation</a>
2:45 PM	Ahsbahs, Tobias	Tobias Ahsbahs, DTU Wind Energy, Roskilde, Denmark, Merete Badger, Charlotte Bay Hasager, Kurt S. Hansen, and Patrick Volker	<a href="#">Coastal wind speed gradients at the Anholt wind farm from SCADA, SAR and WRF</a>	<a href="#">Click for full presentation</a>
<b>2.B: CDF APPLICATIONS 2</b>				
<b>Brasseur, James (Session Chair)</b>				
1:30 PM	Mavriplis, PhD, Prof. Dimitri (Keynote)	Dimitri Mavriplis, University of Wyoming	<a href="#">Multidisciplinary Blade Resolved Wind Farm Simulations using High Performance Computing</a>	<a href="#">Click for full presentation</a>
2:00 PM	Misner, Greg	Greg Misner, University, Hamilton, Canada, Shawn Armstrong and Stephen Tullis	<a href="#">Flow divergence around higher-solidity straight-bladed vertical axis wind turbines</a>	
2:15 PM	Nielson, Jordan	Jordan Nielson, University of Texas at San Antonio and Kiran Bhaganagar	<a href="#">Convective Surface Heat Flux Effects on Wind Turbine Power</a>	<a href="#">Click for full presentation</a>
2:30 PM	Doubrawa, Paula	Paula Doubrawa, National Wind Technology Center, National Renewable Energy Laboratory, Pat Moriarty, Matt Churchfield, Eliot Quon, Paul Fleming	<a href="#">Wake Characteristics from Scaled and Full-Scale Wind Turbines Based on Measurements and Simulations</a>	
2:45 PM	Ali (Presented by Raul Bayoan Cal)	Naseem Ali, Portland State University, Nicholas Hamilton, Gerard Cortina, Marc Calaf and Raúl Bayoán Cal, Portland State University	<a href="#">Turbulence Characteristics via Invariants of the Reynolds Stress Anisotropy Tensor in a Thermally Stratified Wind Turbine Array Boundary Layer</a>	
<b>BREAK (3:00 PM)</b>				

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<b>3.A: WFIP2</b>				
<b>Cline, Joel (Session Chair)</b>				
3:30 PM	Delwik, Ebba (Keynote)	E. Dellwik, DTU Wind Energy, Roskilde, Denmark, M. Badger, N. Angelou, J. Mann, I. Karagali, A.N. Hahmann, D. Cavar and P van der Laan	<a href="#">Modeling and Validation across Scales: Parametrizing the effect of the forested landscape</a>	<a href="#">Click for full presentation</a>
4:00 PM	Berg, Larry	Larry K. Berg, Pacific Northwest National Laboratory, Richland, Washington, Joel Cline, Melinda Marquis, Jim McCaa, David Cook, Richard Eckman, Harindra Fernando, Julie Lundquist, William J. Shaw, Justin Sharp, Sonia Harton, James M. Wilczak	<a href="#">Overview of WFIP 2 Observations: Concept, Execution, and Results</a>	<a href="#">Click for full presentation</a>
4:15 PM	Pichugina, Yelena	Y. Pichugina, Cooperative Institute for Research in Environmental Sciences, Boulder, CO, A. Brewer, R. Banta, A. Choukulkar, and T. Bonin, J. Cline, J. Kenyon, M. Marquis and J. Olson	<a href="#">Lidar Technology for Improvements in Wind Resource Assessment and Power Forecasts</a>	<a href="#">Click for full presentation</a>
4:30 PM	Djalalova (presented by James Wilczak)	I. Djalalova, L. Bianco, J. Wilczak, NOAA/ESRL, J. Olson, A. Brewer, A. Choukulkar, R. Eckman, J. Kenyon, J. Lundquist and S. Wharton	<a href="#">A comparison of 80m wind speed measurements from lidars, sodars, and two operational models during WFIP2</a>	<a href="#">Click for full presentation</a>
4:45 PM	Olson, Joseph	Joseph B. Olson, University of Colorado/CIRES and NOAA/ESRL, M. Marquis, J. Kenyon, M. Toy, Y. Pichugina, A. Choukulkar, T. Bonin, R. Banta, L. Bianco, I. Djalalova, K. McCaffrey, J. Wilczak, K. Lantz, C. Long, S. Redfern, J. McCaa, M. Stoelinga, E. Grimit, J. Cline, W. Shaw, J. Lundquist, K. Lundquist, L. Berg and Justin Sharp	<a href="#">Model Development Efforts During the Wind Forecast Improvement Project 2 (WFIP2)</a>	
<b>3.B: SCIENCE &amp; APPLICATIONS</b>				
<b>Sempreviva, Anna Maria (Session Chair)</b>				
3:30 PM	Haupt, Sue Ellen (Keynote)	Sue Ellen Haupt, NCAR		<a href="#">Click for full presentation</a>
4:00 PM	Jha, Pankaj	Pankaj K. Jha, Envision Energy USA Ltd., Houston, TX, Guolei Wang, Kyle S. Hutchings, and Gregory S. Oxley	<a href="#">Wind Plant Power Optimization and Control under Uncertainties</a>	<a href="#">Click for full presentation</a>
4:15 PM	Samara, Farid	F. Samara, Mechanical and Mechatronics Eng., University of Waterloo, Waterloo, Canada and D. A. Johnson	<a href="#">In-blade Load Sensing and Control on 3D Printed Wind Turbine Blades Using Trailing Edge Flaps</a>	<a href="#">Click for full presentation</a>
4:30 PM	Bottasso, Carlo	C.L. Bottasso, Wind Energy Institute, Technical University of Munich, Germany, and Politecnico di Milano, Italy	<a href="#">Wind sensing: A new technology to estimate the inflow at the rotor disk for smart wind turbine and wind farm control</a>	<a href="#">Click for full presentation</a>
4:45 PM	Echeverria-Dura, Fernando	Fernando Echeverria Durá, ACCIONA Windpower, Pamplona, Navarra, Spain and Fermín Mallor Gimenez	<a href="#">Dealing with the curse of dimensionality in the blade multi-disciplinar optimization</a>	<a href="#">Click for full presentation</a>
<b>WEDNESDAY, OCTOBER 25, 2017</b>				
<b>4.A: MESOSCALE TO MICROSCALE COUPLING 1</b>				
<b>Munoz-Esparza, Domingo (Session Chair)</b>				
9:00 AM	Meneveau, PhD, Prof. Charles (Keynote)	Charles Meneveau, Johns Hopkins University, USA	<a href="#">Applying turbulent boundary layer concepts to flows in wind farms</a>	
9:30 AM	Jimenez Munoz, Pedro	Pedro A. Jiménez, National Center for Atmospheric Research, Boulder, CO, USA, Branko Kosović, Alberto Martilli, Sue E. Haupt, Joseph B. Olson and JianWen Bao	<a href="#">A three dimensional PBL parameterization to improve wind forecasting at sub-kilometer scales</a>	<a href="#">Click for full presentation</a>
9:45 AM	Mirocha, Jeffrey	Jeffrey D. Mirocha, Lawrence Livermore National Laboratory, Livermore, CA, Raj K. Rai b, Matthew J. Churchfield, Yan Feng, Caroline Draxl, Javier Sanz Rodrigo, Brandon L. Ennis, Branko Kosović, and Sue Ellen Haupt	<a href="#">An investigation of online and offline mesoscale-microscale coupling techniques during unsteady meteorological conditions</a>	
10:00 AM	Rai, Raj	Raj K. Rai, Pacific Northwest National Laboratory, Richland, Washington, USA, Larry K. Berg, Branko Kosović, Jeffrey D. Mirocha, Sue Ellen Haupt, Brandon L. Ennis and Caroline Draxl	<a href="#">Evaluation of the Impact on Terra Incognita for Mesoscale and Microscale WRF Simulations</a>	
10:15 AM	Neher, James	James M.T. Neher, University of California at Berkeley, Leendert van Veen and Fotini K. Chow	<a href="#">Coupled mesoscale and large-eddy simulations of a wind turbine wake over complex terrain</a>	

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<b>4.B: CONTROLS 1</b>				
<b>Pao, Lucy (Session Chair)</b>				
9:00 AM	Johnson, PhD, Prof. Kathryn (Keynote)	Professor Kathryn Johnson, PhD, Colorado School of Mines	<a href="#">Using modeling to support control design and testing for wind energy systems</a>	
9:30 AM	Rott, Andreas	Andreas Rott, ForWind –Center for Wind Energy Research, Institute of Physics, University of Oldenburg, Germany, Bart Doekemeijer, Janna Seifert, Jan-Willem van Wingerden and Martin Kühn	<a href="#">Accounting for wind direction variability and uncertainty by robust active wake deflection control in wind farms</a>	<a href="#">Click for full presentation</a>
9:45 AM	Sinner, Michael	Michael N. Sinner, University of Colorado, Boulder, Colorado and Lucy Y. Pao	<a href="#">Individual and Collective Pitch Actuation using Lidar-Enabled Model Predictive Control</a>	<a href="#">Click for full presentation</a>
10:00 AM	Hamilton, Nicholas	Nicholas Hamilton, Portland State University, Oregon, Bianca Viggiano, Marc Calaf, Murat Tutkun, and Raúl Bayoán Cal	<a href="#">Towards a Wind Turbine Wake Reduced-Order Model</a>	<a href="#">Click for full presentation</a>
10:15 AM	Kianbahkt, Sepideh	Sepideh Kianbakht, Colorado School of Mines	<a href="#">Shutdown Controller Design for a 13 MW Segmented Ultralight Morphing Rotor Wind Turbine</a>	
<b>BREAK (10:30 AM)</b>				
<b>5.A. MESOSCALE TO MICROSCALE COUPLING 2</b>				
<b>Kosovic, Branko (Session Chair)</b>				
11:00 AM	Meyers, Johan (Keynote)	Johan Meyers KU Leuven, Mechanical Engineering, Celestijnenlaan 300A, B3001 Leuven, Belgium	<a href="#">Wind farms and gravity waves</a>	
11:30 AM	Sever, Gokhan	Gökhan Sever, Argonne National Laboratory, Argonne, IL, Yan Feng and Rao Kotamarthi	<a href="#">A turbulence library for asynchronous coupling of meso and microscale models</a>	<a href="#">Click for full presentation</a>
11:45 AM	Munoz-Esparza, Domingo	Domingo Muñoz-Esparza, National Center for Atmospheric Research, Boulder, Colorado, Branko Kosović, Jeremy A. Sauer, Julie K. Lundquist, and Rodman R. Linn	<a href="#">Improved representation of small-scale turbulence and intra-hour variability in the stable boundary layer by coupling mesoscale and large-eddy simulation models</a>	<a href="#">Click for full presentation</a>
12:00 PM	Mazzaro, Laura	Laura J. Mazzaro, Los Alamos National Laboratory, Los Alamos, NM and University of Colorado, Boulder, CO, Domingo Muñoz-Esparza, Julie K. Lundquist, and Rodman R. Linn	<a href="#">Nested mesoscale-to-LES modeling of the atmospheric boundary layer in the presence of under-resolved convective structures</a>	<a href="#">Click for full presentation</a>
12:15 PM	Kosovic, Branko	Branko Kosović, National Center for Atmospheric Research, Boulder, Colorado, Jeffrey D. Mirocha, Matthew J. Churchfield, Domingo Muñoz-Esparza, Raj K. Rai, Yan Feng, Sue Ellen Haupt, Barbara Brown, Brandon L. Ennis, Caroline Draxl, Javier Sanz Rodrigo, William J. Shaw, Larry K. Berg, Pat Moriarty, Rodman Linn, R. Veerabhadra Kotamarthi	<a href="#">Assessment of large-eddy simulations of the atmospheric boundary layer for wind energy applications</a>	
<b>5.B. CONTROLS 2</b>				
<b>Veers, Paul (Session Chair)</b>				
11:00 AM	Fleming, PhD, Paul (Keynote)	Paul Fleming, NREL	<a href="#">Wind Farm Control at the National Renewable Energy Laboratory (NREL)</a>	
11:30 AM	Zalkind, Daniel	Daniel S. Zalkind, University of Colorado, Boulder, Lucy Y. Pao and Christopher J. Bay	<a href="#">An Analysis of Peak Load Shaving Control Methods</a>	<a href="#">Click for full presentation</a>
11:45 AM	Bay, Christopher	Christopher J. Bay, Colorado School of Mines, Golden, CO, Timothy Taylora, Jennifer Annonib, Lucy Y. Paoc, and Kathryn E. Johnson	<a href="#">Distributed Model Predictive Control of Wind Farms</a>	
12:00 PM	Bartl, Jan	J. Bartl, Norwegian University of Science and Technology, Trondheim, Norway and L. Sætran	<a href="#">Experimental testing of wind turbine wake control</a>	<a href="#">Click for full presentation</a>
12:15 PM	Cole, Samuel	Samuel B. Cole, University of New Hampshire, Durham, NH, Gavin E. Hess, Barry K. Fussell and Martin M. Wosnik	<a href="#">Design and Performance of a Controllable One-Meter Scale Research Wind Turbine</a>	<a href="#">Click for full presentation</a>
<b>LUNCH BREAK (12:30 PM)</b>				
<b>6.A: ENABLING EFFORTS 1</b>				
<b>Gail, William (Session Chair)</b>				
1:30 PM	Machefaux, PhD, Ewan (Keynote)	Ewan Machefaux, PhD, Wind Systems A/S, Denmark	<a href="#">Vestas Simulation Environment</a>	

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2:00 PM	Liu, Yubao	<b>Yubao Liu, National Center for Atmospheric Research (NCAR), Boulder, CO,</b> Will Y.Y. Cheng, Yuewei Liu, Gregory Roux, Linlin Pan, Luca Delle Monache, Si Shen, Haoliang Wang, Weisheng Wang, Shuanglei Feng, Chun Liu, Shuanglong Jin, Bo Wang, Ju Hu, Zongpeng Song, Xiaolin Liu	<a href="#">Numerical Weather Prediction Capabilities for Power Grid Weather Services of the State Grid Corporation of China</a>	<a href="#">Click for full presentation</a>
2:15 PM	Lunacek, Monte	<b>Monte Lunacek, National Renewable Energy Laboratory, Golden, Colorado,</b> M. Jason Fields, Joseph C. Y. Lee, John Meissner, Caleb Phillips, Shuangwen Sheng and Anna Craig	<a href="#">Assessing Biases in Pre-Construction P50: A Historical Validation Survey</a>	
2:30 PM	Giebel, Gregor (presented by Caroline Draxl)	Gregor Giebel, Joel Cline, <b>Caroline Draxl, National Renewable Energy Laboratory, Golden, Colorado,</b> Helmut Frank, Bri-Mathias Hodge, George Kariniotakis, Jakob Messner, Corinna Möhrlen, Pierre Pinson, and Will Shaw	<a href="#">IEA Wind Task 36 Forecasting</a>	
2:45 PM	Roadman, Jason	<b>Jason Roadman, NREL, Golden, Colorado, United States</b> and Elise DeGeorge	<a href="#">Technology Development and Innovation to Address Wind Wildlife Operational Challenges</a>	
<b>6.B: ANALYSIS &amp; DESIGN</b>				
<b>Pichugina, Yelena (Session Chair)</b>				
1:30 PM	<b>Keller, PhD, Jonathan (Keynote)</b>	<b>Jonathan Keller, National Renewable Energy Laboratory, Golden, CO,</b> Benjamin Gould and Aaron Greco	<a href="#">Investigating Bearing Failures in Wind Turbine Drivetrains</a>	
2:00 PM	Larsen, Gunner	<b>G.C. Larsen, Hansen Technical University of Denmark, T.J. Larsen and K.S. Hansen</b>	<a href="#">Loads in wind farms under non-neutral ABL stability conditions – a full-scale validation study of the DWM model.</a>	<a href="#">Click for full presentation</a>
2:15 PM	Hassanzadeh Hassanabad, Arash	<b>Arash Hassanzadeh, University of Wyoming, Laramie,</b> Andrew Kirby, Rajib Roy, Jonathan Naughton	<a href="#">Design and Simulation of Small Scale Wind Turbine Blade for Wind Tunnel Wake Testing</a>	<a href="#">Click for full presentation</a>
2:30 PM	Romanic, Djordje	<b>Djordje Romanic, Wind Engineering, Energy and Environment (WindEEE) Research Institute, Western University, London, Ontario, Canada</b> and Horia Hangan	<a href="#">Wind Resource Assessment in Tornado Prone Area in the United States</a>	
2:45 PM	Worsnop, Rochelle	<b>Rochelle P. Worsnop, University of Colorado, Boulder,</b> Julie K. Lundquist, George H. Bryan, Rick Damiani, and Walt Musial	<a href="#">Gusts and Shear Within Hurricane Eyewalls Can Exceed Offshore Wind Turbine Design Standards</a>	<a href="#">Click for full presentation</a>
<b>BREAK (3:00 PM)</b>				
<b>POSTER SESSION (3:30 PM - 5:00 PM)</b>				
	Arthurs, Claire	<b>Claire R. Arthurs, Georgia Institute of Technology, Atlanta,</b> Latha Sethuraman, Katherine Dykes and Lee Jay Fingersh	<a href="#">Structural design optimization of doubly-fed induction generators using GeneratorSE</a>	
	Artigao, Estefania	<b>E. Artigao, Renewable Energy Research Institute, UCLM, Albacete, Spain,</b> E. Gomez Lazaro and A. Honrubia Escribano	<a href="#">Wind Turbine Doubly-Fed Induction Generator Condition Monitoring – A Case Study</a>	
	Bao, Jingyi	<b>Jingyi Bao, University of California, Berkeley,</b> Katherine A. Lundquist, Fotini K. Chow	<a href="#">Implementation of a log-law immersed boundary method for flow over steep terrain</a>	
	Doubrawa, Paula	<b>Paula Doubrawa, National Wind Technology Center, Boulder, CO,</b> A. Montornès, R. J. Barthelmie and S. C. Pryor	<a href="#">Analysis of Different Gray Zone Treatments in WRF-LES Real Case Simulations</a>	
	Evans, Humberto Bocanegra	<b>Humberto Bocanegra Evans, Texas Tech University, Lubbock,</b> Luciano Castillo, Ali M. Hamed, Serdar Gorumlu, Ali Doosttalab, Burak Aksak and Leonardo P. Chamorro	<a href="#">Effect of Bio-inspired surface roughness on a wind turbine section</a>	
	Han, Yi	<b>Yi Han, University of Wyoming, Laramie</b> and Michael Stoellinger	<a href="#">RANS Simulation of Atmospheric Boundary Layer Flow over Complex Terrain with Validation of Field Measurements under Neutral Stability Condition</a>	
	Hayes, Austin	<b>Austin C. Hayes, *Rochester Institute of Technology, Rochester, NY,</b> Latha Sethuraman, and Lee J. Fingersh	<a href="#">Structural Mass Saving Potential of a 5MW Direct Drive Generator Designed for Additive Manufacturing</a>	
	Lee, Joseph	<b>Joseph C. Y. Lee, University of Colorado Boulder</b> and Julie K. Lundquist	<a href="#">Evaluation of the Wind Farm Parameterization in the Weather Research and Forecasting Model with Meteorological and Turbine Power Data</a>	

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	Martin, Dana	Dana Martin, Colorado School of Mines and Kathryn Johnson	<a href="#">Analysis of Rotor Torque Sensitivity for a Wind Speed Estimator as Applied to an Extreme Scale, Segmented Ultra-light Morphing Rotor</a>	
	Mazzaro, Laura	Laura J. Mazzaro, Los Alamos National Laboratory, Los Alamos, NM and University of Colorado, Boulder, CO, Eunmo Koo, Julie K. Lundquist, and Rodman R. Linn	<a href="#">A New Method for Turbulence Generation in Large Eddy Simulations Using Horizontal Momentum Perturbations.</a>	
	McCarty, Brandi	Brandi McCarty, Cooperative Institute for the Research in Environmental Sciences, Boulder, CO, Yelena Pichugina, Aditya Choukulkar, Tim Bonin, W. Alan Brewer and Melinda Marquis	<a href="#">Analysis of a complex terrain effect on wind flow pattern using lidar and nacelle-mounted anemometer measurements.</a>	
	Persson, Noah	N. Persson, Cooperative Institute for Research in Environmental Sciences, Boulder and the University of Colorado Boulder, Y. Pichugina, A. Brewer, R. Banta, A. Choukulkar, T. Bonin	<a href="#">Analysis of wind flow over complex terrain using scanning Doppler lidar measurements</a>	
	Quon, Eliot	Eliot W. Quon, National Renewable Energy Laboratory, Golden, CO, Tyler J. Ambrico, Aditya S. Ghate, Matthew J. Churchfield	<a href="#">Stochastic Velocity Perturbation Strategies for Mesoscale to Microscale Coupling and Wind Turbine Aeroelastic Simulation</a>	
	Rott, Andreas	Andreas Rott, orWind –Center for Wind Energy Research, Institute of Physics, University of Oldenburg, Germany, Jörg Schneemann, Davide Trabucchi, Juan-José Trujillo and Martin Kühn	<a href="#">Accurate Deployment of Long Range Scanning Lidar on Offshore Platforms by Means of Sea Surface Leveling</a>	
	Roy, Rajib	Rajib Roy, University of Wyoming, Laramie and Michael Stoellinger	<a href="#">Multi-stage Large Eddy Simulation for Meso to Micro-scale Coupling for Wind Farm Applications</a>	
	Shahriari, Mehdi	M. Shahriari, Pennsylvania State University, G. Cervone, Seth Blumsack and Luca Delle Monache	<a href="#">Using Analog Ensemble to create optimal wind portfolios</a>	
	Siedersleben, Simon	Simon K. Siedersleben, Institute of Meteorology and Climate Research, (IMK-IFU), KIT, Garmisch-Partenkirchen, Germany, Andreas Platis, Konrad Baerfuss, Bughsin Djath, Beatriz Canadillas, Astrid Lampert, Johannes Schulz-Stellenfleth, Tom Neuman, Jens Bange, Stefan Emeis	<a href="#">Evaluation of a Mesoscale Wind Farm Parameterization by Aircraft Measurements</a>	
	Simon, Elliot	Elliot I. Simon, DTU Wind Energy (Risø), Roskilde, Denmark, Michael S. Courtney and Guillaume Léa	<a href="#">Gust Prediction Using Lidar Observations</a>	
	Worsnop, Rochelle	Rochelle P. Worsnop, University of Colorado, Boulder, Michael Scheuerer, Thomas M. Hamill, and Julie K. Lundquist	<a href="#">Improving Wind Ramp Forecasts by the HRRR System via Statistical Post-processing</a>	
<b>RECEPTION (5:00 PM - 6:30 PM)</b>				
<b>THURSDAY, OCTOBER 26, 2017</b>				
<b>8.A: EXPERIMENTAL SCALE SIMULATIONS 1</b>				
<b>Peinke, Joachim (Session Chair)</b>				
9:00 AM	Naughton, Jonathan (Keynote)	Jonathan, Naughton, University of Wyoming		<a href="#">Click for full presentation</a>
9:30 AM	Schottler, Jannik	J. Schottler, orWind - University of Oldenburg, Oldenburg, Germany, J. Bartl, F. Mühle, J. Peinke and M. Hölling	<a href="#">The wakes behind two different yawed model wind turbines: From wake deflection towards two-point statistics</a>	<a href="#">Click for full presentation</a>
9:45 AM	Neunaber, Ingrid	I. Neunaber, ForWind - University of Oldenburg, Oldenburg, Germany, J. Schottler, M. Hölling and J. Peinke	<a href="#">Experimental study on the effect of intermittent inflow on properties in the wind turbine wake</a>	
10:00 AM	Berger, Frederik	F. Berger, Carl von Ossietzky University, Oldenburg, Lower Saxony, Germany, V. Petrović, M. Hölling and M. Kühn	<a href="#">Scaled wind turbine test setup in a wind tunnel with active turbulence generation for induction aerodynamics, load and control experiments</a>	
10:15 AM	Harms, Tanner	Tanner Harms, University of Wyoming, Laramie, Pourya Nikoueeayan, and Jonathan Naughton	<a href="#">Analysis of the Cycle-to-Cycle Behavior of Dynamic Stall on Thick Airfoils</a>	
<b>8.B: ENABLING EFFORTS 2</b>				
<b>Marquis, Melinda (Session Chair)</b>				

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Time	Lead Author/Speaker	Complete List of Authors	Title (Click for Abstract)	Full Presentation
9:00 AM	Sempreviva, Anna Maria (Keynote)	Anna Maria Sempreviva, Technical University of Denmark, DTU Wind Energy, Roskilde, Denmark, David Robert Verelst, Gregor Giebel, Lars Pilgaard Mikkelsen, Christian Bak, Hilmar Kjartansson Danielsen, Nikola Vasiljevic, Allan Vesth, Mattias Anderson, Stephan Barth, Javier Sanz Rodrigo, Pawel Gancarski, Tor Inge Reigstad, Hans Christian Bolstad, Jan Willem Wagenaar, Koen Hermans	<a href="#">Wind energy open data web portal: Metadata and Taxonomy for data search</a>	<a href="#">Click for full presentation</a>
9:30 AM	Vasiljevic, Nikola	N. Vasiljević, DTU Wind Energy, Roskilde, Denmark, A. Vignaroli, C. Hasager, L. Pauscher T. Klaas, J.C. Lopes, H.C. Bolstad and L.M. Bardal	<a href="#">The rise of big lidar datasets and need for lidar data standardization, contextualization and dissemination</a>	<a href="#">Click for full presentation</a>
9:45 AM	Fields, Jason	Jason Fields, NREL		
10:00 AM	Takle, Gene	Eugene S. Takle, University of Iowa, Daniel A. Rajewski, Samantha L. Purdy, Jielun Sun, and Sergej Zilitinkevich	<a href="#">Exchanges in Surface and Boundary Layer Reconsidered: Introducing FaNTASTIC-1</a>	<a href="#">Click for full presentation</a>
10:15 AM	Castillo, Luciano	Luciano Castillo, Purdue University, West Lafayette, IN and Walter Gutierrez	<a href="#">The case for wind energy on water security</a>	<a href="#">Click for full presentation</a>
<b>BREAK (10:30 AM)</b>				
<b>9.A: EXPERIMENTAL SCALE SIMULATIONS 2</b>				
<b>Naughton, Jonathan (Session Chair)</b>				
11:00 AM	Dixon, Kristian (Keynote)	Kristian R. Dixon Envision Energy Inc., Boulder, Colorado	<a href="#">Rotor System Design in an Industrial Context at Envision Energy</a>	<a href="#">Click for full presentation</a>
11:30 AM	Taylor-Power, Gregory	Gregory G. Taylor-Power, University of New Hampshire, Durham, NH and Martin M. Wosnik	<a href="#">Experimental Study of the Turbulent Wake Flow of a One Meter Scale Research Wind Turbine in a Large Boundary Layer Wind Tunnel</a>	<a href="#">Click for full presentation</a>
11:45 AM	Camp, Elizabeth	Elizabeth H. Camp, Portland State University and Raúl Bayoán Cal	<a href="#">Low Dimensional Representations and Anisotropy of a Model Wind Turbine Array Versus an Array of Porous Disks</a>	<a href="#">Click for full presentation</a>
12:00 PM	Turner, John	John J. Turner V, *University of New Hampshire, Durham and Martin M. Wosnik	<a href="#">Fully developed experimental wind turbine array boundary layer</a>	<a href="#">Click for full presentation</a>
12:15 PM	Holmes, Marlin	Marlin J. Holmes, University of Wyoming, Laramie, Jonathan W. Naughton, and Eric J. DeMillard	<a href="#">Experimental Characterization of an Axisymmetric Swirling Wake</a>	<a href="#">Click for full presentation</a>
<b>9.B: OPTIMIZATION &amp; UNCERTAINTY QUANTIFICATION</b>				
<b>Jha, Pankaj (Session Chair)</b>				
11:00 AM	Maniaci, David (Keynote)	David Maniaci, Sandia National Laboratories, Thomas G. Herges and Brian T. Naughton	<a href="#">Wind Turbine Wake Research at the SWIFT Facility</a>	
11:30 AM	Delle Monache, Luca	L. Delle Monache, NCAR/RAL, S. Alessandrini, S.E. Haupt, B. Kosovic	<a href="#">Wind power forecasting with the analog ensemble</a>	<a href="#">Click for full presentation</a>
11:45 AM	Craig, Anna	Anna E. Craig, National Renewable Energy Laboratory, Golden, CO and Patrick J. Moriarty	<a href="#">Uncertainty propagation through wind flow and wake loss models</a>	<a href="#">Click for full presentation</a>
12:00 PM	Lee, Joseph	Joseph C. Y. Lee, National Renewable Energy Laboratory, Golden, Colorado and University of Colorado Boulder, M. Jason Fields and Julie K. Lundquist	<a href="#">Evaluating the Methodology of Assessing Inter-Annual Variability of Wind Speed</a>	
12:15 PM	Quick, Julian	Julian Quick, University of Colorado Boulder and National Renewable Energy Laboratory, Golden, CO, Jennifer Annoni, Ryan King, Paul Fleming, Andrew Ning, Katherine Dykes	<a href="#">Optimization Under Uncertainty for Wake Steering Strategies</a>	