

Preliminary Winterwind 2017 program

Monday Feb 6 **Outside session rooms** **Verandan** **Festvåningen** **Boviken**

09:15	Departure from Stadshollet			
09:35	Pick up at the airport			
13:00-17:00	Field trip		IEA Task 19 workshop - Ice throw, Rolv Bredesen, Saskia Bourgeois, Dag Haaheim	
19:00	Arrival back to Stadshotellet			
18:00-20:00	Registration Poster set up			

Tuesday Feb 7

08:00-10:00 Registration

10:00-11:30 Session 1	<p>Inauguration and keynote 1 Jeanette Lindblad and Göran Ronsten</p> <p>Global status and future outlook of renewable energy with a focus on wind, Christine Lins, REN21 (11)</p> <p>High-resolution simulations of freezing drizzle and freezing rain events and comparisons to observations, Gregory Thompson, National Center for Atmospheric Research (22)</p> <p>Long-term visions for cold climate, Ville Lehtomäki, VTT, FI (23)</p>
------------------------------	---

11:30-13:00 Lunch	12:30 - 12:55 Poster presentations	A review of MERRA-2 data in Scandinavia, Gemma Daron, DNV GL (43)	Internet of Things gives cost effective monitoring solutions, Patrik Jonsson, Combitech, Sweden (21)	Cold climate drones and wind energy applications, Richard Hann, Norwegian University of Science and Technology (NTNU), NO (30)
-------------------	------------------------------------	---	--	--

13:00-14:30 Session 2-4	Forecasting, cloud physics, aerodynamics	HSE (Health, Safety and Environment)	Operational experience
--------------------------------	---	---	-------------------------------

	Numerical simulation of ice accretion on an airfoil, Matilda Ronnfors, Lund University, Sweden (15)	Experimental investigation of risk from ice throw and ice shed , Markus Drapalik, University of Natural Resources and Life Sciences Vienna, AT (3)	New Recommended Practises for Low Temperature and Icing Climate Conditions, Kai Freudenreich, DNVGL Renewables Certification (12)
	ICE CONTROL – Measurements and probabilistic forecasting of icing events in Austria and Germany, Lukas Strauss, University of Vienna, Austria (20)	ICETHROWER – mapping and tool for risk analysis, Jenny Lunden, Pöyry Sweden, SE (13)	A novel meteorological conditions monitoring system for icing detection purposes on wind turbines: operational experience in Canada, André Bégin-Drolet, Université Laval, Canada (6)
	Uncertainty quantification for wind power forecasts in cold climates, Jennie P. Söderman, Uppsala Universitet (26)	IceRisk: Review of current knowledge and the way forward in risk assessments associated with ice throw from wind turbine blades, Rolv Erlend Bredesen, Kjeller Vindteknikk, NO (28)	Modeling the dynamic behavior of wind farm power generation, Beanán O'Loughlin, AWS Truepower (41)
	A novel approach for combining measurements and models for icing predictions, Emilie C. Iversen, Kjeller Vindteknikk, NO (37)		Estimating Icing Losses at Proposed Wind Farms, Till Beckford, DNV GL, UK (27)
14:30-15:30 Break - Poster presentations	WIceAtlas public website , Simo Rissanen, VTT, FI (35)	Comparison of icing measurements from nacelle-mounted and blade-mounted ice sensors with icing simulations on a wind turbine blade, Tatu Muukkonen, Labkotec, Finland (38)	Hotspot resistant blade heat system, Greger Nilsson, Blade Solutions, Sweden (25)
15:30-17:00 (17:30) Session 5-7	Wind turbine manufacturers	De-/anti-icing including ice detection & control	Pre-construction site assessment
	Introduction for Dongfang low-temperature wind turbine, Wei Chu, Dongfang Electric Corporation, China (1)	Measuring in cloud water droplets - the real cause of icing, Timo Arstila, University of Oulu, FI (18)	Probabilistic long term correction of production losses due to icing, Magnus Baltscheffsky, WeatherTech Scandinavia (29)
	ENERCON – reliable energy production during the winter months, Katharina Roloff, ENERCON (45)	Standardizing ice detector tests in icing wind tunnel, Tuomas Jokela, VTT, FI (17)	Blind Icing Map Validation, René Cattin, Meteotest, CH (9)

	Siemens - Improving performance and reliability in cold climate, Lennart Frølund, Siemens Wind Power, DK (7)	So where exactly is the ice - how many sensors does a turbine need?, Michael Moser, eologix sensor technology, AT (42)	IceLoss - 10 years of experiences with calculation of production losses caused by icing, Øyvind Byrkjedal, Kjeller Vindteknikk, NO (32)
	Nordex Anti-Icing System on N131 wind turbines – development and validation, Konrad Sachse, Nordex Energy GmbH (48)	Evaluation of ice detection systems for wind turbines – first experiences from field test, Saskia Bourgeois, Meteotest, Switzerland (8)	
	Vestas R&D within cold climate, Brian Daugbjerg Nielsen, Vestas Wind Systems a/s (51)		

17:30-19:00 Mingle and poster presentations in exhibition hall

19:00– Dinner and entertainment

Preliminary Winterwind 2016 program

Wednesday Feb 8

Verandan

Festvåningen

Boviken

08:30-10:00 Session 8

Keynote 2

WindEurope, Joël Meggelaars, WindEurope (46)

Grid challenges to wind deployment, Hannele Holttinen, VTT, FI (14)

WWEA, Stefan Gsänger, WWEA (47)

10:00-10:30 Break - Poster presentations

HOW TO EXTEND THE LIFE TIME OF WIND TURBINE GEARBOXES, Stefan Bill, REWITEC, Germany (31)

Quantifying the Shadow Effect Between Offshore Wind Farms With Idealized Mesoscale Models and Observed Wind Data, David Werner, Uppsala University and Vattenfall (2)

Application of a SCADA Data Monitoring Methodology, Bojan Alavanja, Nordex Acciona Windpower (50)

10:30-12:00 Session 9-11

Market, research, offshore

De-/anti-icing including ice detection & control

Environmental Impact Assessment (EIA)

	<p>Cold Climate Wind Power Market Study 2016-2020, Timo Karlsson, VTT, FI (24)</p>	<p>Identification of ice build-up and corresponding control optimisation, Martin Evans, DNV GL, UK (19)</p>	<p>Experience with De-icing systems, noise and vibrations evoked by ice accretion , Daniel Brenner, Weidmüller Monitoring Systems (WMS), Dresden, Germany (39)</p>
	<p>Site Specific Simulations of Sea Ice and Wave Loads on Offshore Wind Turbine Support Structures, Simo Rissanen, VTT, FI (33)</p>	<p>Carbon Nanotube based Rotary Screen Printed Anti-Icing Areas in Blades of Wind Turbines, Thomas Göschel, Westsächsische Hochschule Zwickau, Germany (5)</p>	<p>Impact of snow on sound propagating from wind turbines, Kristina Conrady, Uppsala University, Sweden (16)</p>
	<p>Overview of challenges associated with offshore wind farms in cold climates, Pieter Jan Jordaens, Sarris / OWI-Lab (34)</p>	<p>Potential of icephobic coatings in wind turbine applications, Christian Stenroos, Tampere University of Technology, Department of Materials Science, Finland (36)</p>	<p>Acoustic Monitoring for Ice Detection and Wind Park Maintenance , Timo Mämmelä, APL Systems (40)</p>
	<p>New Swedish Energy Agency research programme within wind energy, Pierre-Jean Rigole, Swedish Energy Agency, SE (49)</p>	<p>Recent ice wind tunnel test results and correlations with surface characteristics, Nadine Rehfeld, Fraunhofer IFAM, Germany (4)</p>	

12:00-13:15 Lunch	12:45-13:10, Poster presentations	<p>Features of design of high-penetration wind-diesel power plants for villages in the Arctic regions of Russia, Elistratov Viktor, Peter the Great St.Petersburg Polytechnic University, Russia (44)</p>	<p>Low temperature compliance testing of wind turbine applications, Pieter Jan Jordaens, Sarris / OWI-Lab , BE (10)</p>
-------------------	-----------------------------------	---	---

13:15-15:00 Session 12	<p>Grand finale - The way forward</p> <p>Moderator: Willy Silberstein Stefan Gsänger, WWEA Tomas Käberger, Chalmers Christine Lins, REN 21 Joël Meggelaars, WindEurope</p>
14:15-14:35	<p>Impressions Hannele Holttinen, VTT Gregory Thompson, UCAR</p>
14:35-14:45	<p>Final words, WVEC 2016</p>