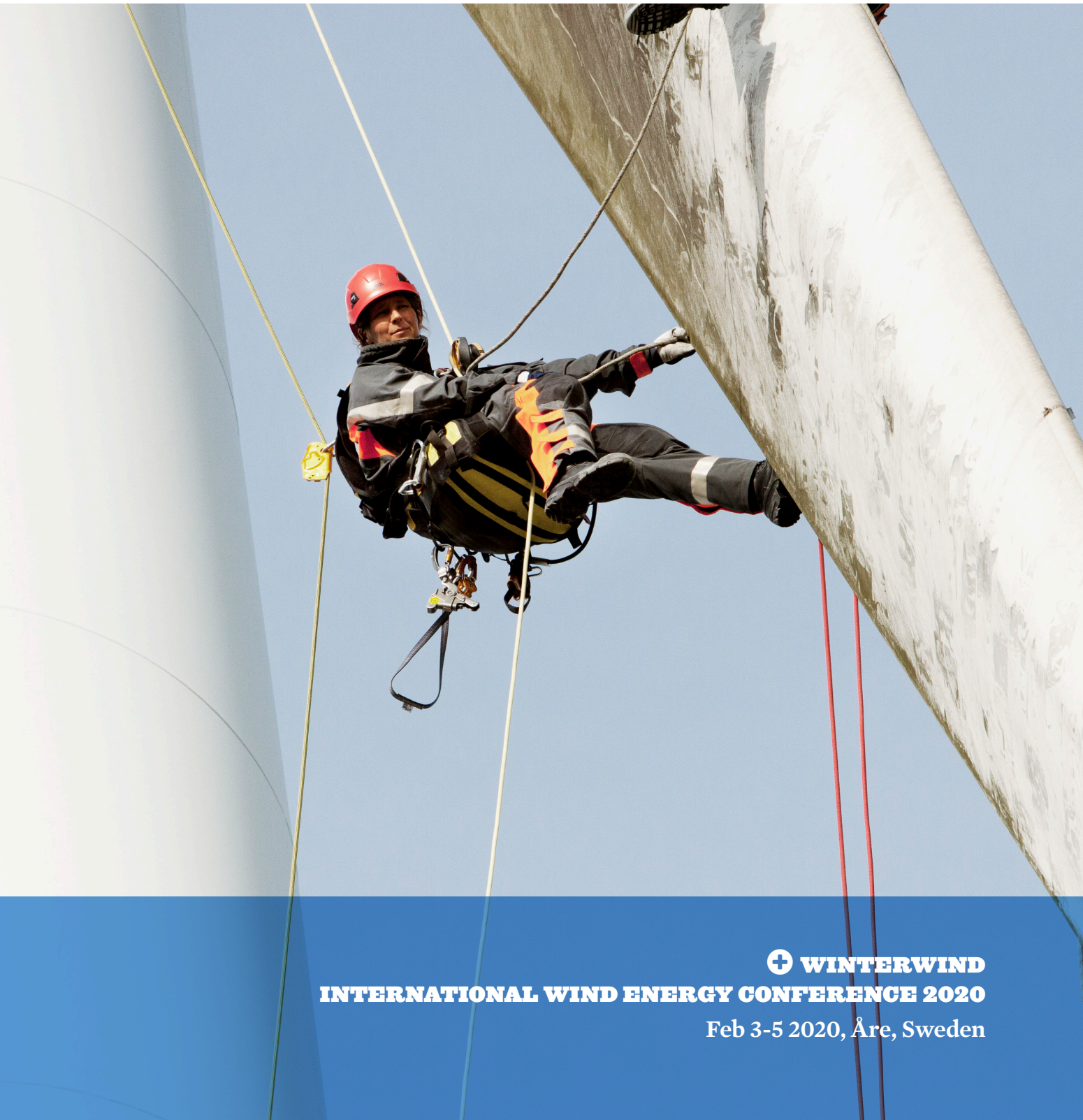
Program

Winterwind

INTERNATIONAL WIND ENERGY CONFERENCE 2020



WINTERWIND

INTERNATIONAL WIND ENERGY CONFERENCE 2020

Feb 3-5 2020, Åre, Sweden

Program

Monday Feb 3

Winterwind 2020 Program per 2020-01-29

	Outside session rooms	Solskog	
09:00 - 12:00		Swedish Windpower Association and RISE - Workshop on blockage, Martin de Maré, RISE Research Institutes of Sweden (57) Global Blockage Offshore/Onshore - Reality or Myth ?, Jan-Åke Dahlberg, Vattenfall Vindkraft AB, SE (56)	By invitation and application only via this link: https://forms.gle/3VPziCeMhYxYL6q46
10:00 - 18:00	Field trip		
14:00 - 18:00		Task 19: Performance warranty guidelines for wind turbines in icing climates workshop at Winterwind 2020, Helena Wickman, Vattenfall (49)	By invitation and application only via this link: https://forms.gle/4iXGREGjcnqDVzAf7
18:00 - 20:00	Registration and Poster Setup		
19:00 - 20:00		Introduction to Winterwind 2020 Program and Modern networking	

Tuesday Feb 4

		Arenan	Solskog	Snöljus
08:00 - 09:00	Registration, Exhibition and Modern networking			
09:00 - 10:00	**Session 1**	**Opening session** **Moderators: Jeanette Lindeblad and Fredrik Lindahl** Welcome! - Jenette Lindeblad and Fredrik Lindahl, Swedish Windpower Association A short introduction, Göran Ronsten, Program coordinator A European Outlook on the prospect of Onshore Wind - Global importance with regional benefits, Sandra Grauers, Vattenfall (51)	Open Innovation Contest, Tanja Tränkle, RISE (50) **Innovate to survive, Siemens Gamesa** **Open Innovation Contest**	
10:00 - 11:00	**Break and Modern networking**			
10:30 - 10:55	**Poster presentations** Reliable ice detection with different measuring methods, Daniel Schingnitz, Weidmüller Monitoring Systems GmbH, GER (60) Six presentations from Open Innovation Contest			

Program

11:00-12:30	**Sessions 2 - 4**	**Modelling** **Chairs: Daniela Roeper, René Cattin**	**Forecasting** **Chairs: Sandra Grauers, Sven-Erik Thor**	**Icing losses and ice throw** **Chairs: Rebecka Klintström, Anders Wickström**
		Large Eddy Simulation of Icing Conditions Impacting Wind Farms in Heterogeneous Land Use, Erik Janzon, Department of Earth Sciences, Uppsala Universitet, Sweden (11)	Improvements to the WRF microphysics, Emilie C. Iversen, Kjeller Vindteknikk (5)	The impact of liquid water content on thermal ice protection systems efficiency , André Bégin-Drolet, Université Laval (18)
		Predicting production loss due to ice accretion, Johan Revstedt, Dept. of Energy Sciences, Lund University, SE (16)	Forecasting of icing for wind energy applications, Øyvind Byrkjedal, Kjeller Vindteknikk, NO (38)	Task19 - Ice Loss Tool, Timo Karlsson, VTT (15)
		Parametric analysis of wind turbine icing in cold regions, Ifrah Mussa, Kingston University, United Kingdom (45)	How might climate change affect repowering?, Charles Godreau, Nergica, CA (8)	windThrow: an open source toolbox for ice throw simulations, Hamid Sarlak, Denmark (23)
		Improved flow modelling at cold climate sites through novel land-surface data from satellite sources , Morten Lybech Thøgersen, EMD International A/S, DK (40)	Minimise your business risks with your own biodiversity strategy, Åsa Abel, Ecogain AB, SWE (55)	On the communication of the ice throw hazard to the public, Rolv Erlend Bredesen, Kjeller Vindteknikk, NO (44)
		Discussion	Discussion	Discussion
12:30 - 14:00	**Lunch and Modern networking**			
		Modelling and forecasting	**Uncertainties – development, life cycle, end-of-life**	**Testing and innovation**
14:00 - 15:30	**Session 5 - 7**	**Chairs: Ifrah Mussa, Johan Revstedt**	**Chairs: Helena Wickman, Hamid Sarlak**	**Chairs: Åsa Abel, Rolv Erlend Bredesen**
		Validation of turbine specific modelled ice losses, Stefan Söderberg, DNV GL, SE (31)	Cost of uncertainty in project development, Jenny Longworth, Kjeller Vindteknikk AB (29)	Climatic chamber testing and verification in cold climate, Mattias Viktorsson, RISE (12)
		Validation of, and findings from, the IceLoss 2.0-project, Johannes Lindvall, Kjeller Vindteknikk, SE (36)	Circular streams from GFRP composite waste, Richard Sott, RISE (14)	Pile Foundation Prototype Execution and Applicability for Scandinavia, Miguel Turullols, Nabrawind Technologies SL (Spain) (13)
		A CFD benchmark study of ice accretion on a wind turbine blade and a comparison to the ice accretion of a rotating blade cylinder model, Johannes Lindvall, Kjeller vindteknikk, SE (37)	Improve Wind Project Lifecycle Cost of Energy in Cold Climates, Albert Bosch, VORTEX FdC, SL (6)	Ice and snow management innovations for critical infrastructure , Ville Kaikkonen, University of Oulu (32)
		Offshore wind farm at icy conditions – Tahkoluoto, Jaakko Kleemola, Suomen Hyötytuuli Oy, FI (54)	Wind farm blockage onshore: what drives the loss?, Till Beckford, DNV GL, UK (28)	Storage of electricity in molecules, Finn Daugaard Madsen, Siemens Gamesa Renewable Energy A/S (3)
		Discussion	Discussion	Discussion
15:30 - 16:30	**Break and Modern networking**			
		Structural monitoring	**Ice detection**	**Ice Protection Systems I**
16:30 - 18:00	**Session 8 - 10**	**Chairs: Tanja Tränkle, Till Beckford**	**Chairs: Frida Godet, Øyvind Byrkjedal**	**Chairs: Jenny Longworth, Finn Daugaard Madsen**
	Modern networking	Blade defect forecasting, Anders Røpke, Wind Power LAB (4)	Icing intensity evaluation based on ice detector measurements, Jarkko Latonen, Labkotec Oy, FI (43)	Experimental investigation of an infrared de-icing system for wind power application in cold climate, Sofia Sollén, Luleå University of Technology (48)
		Towards tracing a rotor surface's 3D trajectory over time, Michael Moser, eologix sensor technology gmbh (42)	The impact of light ice masses on expected wind power production, Florian Rieger, fos4X GmbH (21)	Performance Maps for Ice Mitigation Operational Strategies, Dimitar Stoyanov, Coventry University (33)
		Effect of heavy rotor blade icing to lifetime consumption of tower and foundation, Carsten Ebert, Woelfel Wind Systems (46)	Blade based ice detection IDD.Blade – efficient operation in cold climate, Bernd Wölfel, Wölfel Wind Systems GmbH (47)	Measuring the Wind in Cold Climates - a real world summary of Lidar performance, Wulstan Nixon, United Kingdom (10)
		Siemens Gamesa effective blade repair solution at cold temperatures, Mert Satir, Siemens Gamesa Renewable Energy, Ireland (30)	Optimizing Windturbine heaters with blade based ice detection Systems, Nils Lesmann, Phoenix Contact, GER (1)	Case study; Controlled environment in up-tower blade repairs, Ville Karkkolainen, Bladefence, FI (53)
		Discussion	Discussion	Discussion
18:00 – 19:30	Mingle, poster presentations in exhibition hall and Modern networking			
19:30 – 23:59	Dinner and entertainment			

Program

Wednesday Feb 5

Winterwind 2020 **Program per 2020-01-29**

		Arenan	Solskog	Snöljus
09:00 - 10:00	**Session 11** **Open Innovation Contest awards**	**O&M** **Chairs: Anne Mette Nodeland, Martin de Maré** Slowly, slowly, we'll reach our goal!, Sébastien Trudel, EDF Renewables, Canada (52) Highlights from CanWEA's operations and maintenance summit 2020, Charles Godreau, Nergica, CA (41)		
10:00 - 11:00	**Break and Modern networking**			
11:00 - 12:30	**Session 12-14**	**Manufacturers** **Chairs: Åsa Elmqvist, Stefan Söderberg** Vestas Cold Climate solutions, Karl Gregory, Vestas Wind Systems A/S, DK (27) Evaluation of Vestas De-icing System, Alexander Stökl, Energiewerkstatt e.V. (2) Siemens Gamesa ice accretion modelling and its impact on the aerodynamic performance and AEP, Esteban Belmonte, Siemens Gamesa Renewable Energy, SP (35) Nordex advanced Anti-Icing System for N149 wind turbines, Konrad Sachse, Nordex Energy GmbH, DE (7) Discussion	**Ice protection systems II** **Chairs: Emilie C. Iversen, Jan-Åke Dahlberg** Megaterends in blade heating, Petteri Antikainen, Wicetec, Fi (26) A new type of anti icing system – development/application/demonstration, Sven-Erik Thor, Lindskog Innovation AB (19) Installation of Retrofit Hot Air De-icing Systems, Daniela Roeper, Borealis Wind, Canada (9) Ice protection systems and retrofits: Performance and experiences, Charles Godreau, Nergica, CA (39) Discussion	**O&M activities and strategies** **Chairs: Liselotte Aldén, Lars Jacobsson** Wind turbine operations in northern Siberia, Masafumi Yamazaki, Kanagawa Institute of Technology, Japan (25) Control of tower bolt connections and the challenges related to cold climate conditions, Anders Wickström, RISE Research Institutes of Sweden (20) **From Open Innovation Contest** Advanced operational analytics with machine learning, Till Beckford, DNV GL, UK (34) Discussion
12:30 - 13:30	**Lunch and Modern networking**			
13:30-15:00	**Session 15**	**What do we need now?** **Moderator: Tomas Kåberger** Should I heat or should I not? - Smart operation of wind turbines in Cold Climate, René Cattin, Meteotest, CH (24) World Energy Outlook 2019 – Wind Offshore long-term perspectives: Opportunities and uncertainties, Yasmine Arsalane, World Energy Outlook Directorate of Sustainability, Technology and Outlooks International Energy Agency (58) Dialogue: Yasmine Arsalane (IEA) and Sandra Grauers (Vattenfall)		
14:40-14:50		A decade of expansion ahead, Tomas Kåberger, Renewavle Energy Institute, InnoEnergy, Chalmers (59)		
14:50-15:00		**Final words** **Fredrik Lindahl**		