

Venue: Rica Hotel, Narvik, Norway

Monday, 26 May 2014			Room: Ofotbanen
19:00	21:00	Icebreaker, poster set-up	
Tuesday, 27 May 2014			Room: Ofotbanen
08:15	08:45	Late registration, poster set-up	
08:45	09:00	Welcome	
09:00	09:40	Keynote presentation <i>Considering regionally specific challenges in the Barents Sea</i> Knut Aaneland, North Energy, Norway	
09:40	09:55	BREAK	
		<i>Wind</i>	
09:55	10:15	Smart gas detection and ventilation system for enclosed offshore structures Qusai Al-Hamdan, Mohamad Y. Mustafa, Mohammad Awad, Bjørn Reidar Sørensen	
10:15	10:35	Assessment of wind induced hazards on winterized offshore structures Albara Mustafa, Wei Solvang, Eric Dykes, Mohamad Y. Mustafa	
10:35	10:55	Design of a field experimental set-up for the investigation of wind shielding performance of porous panel geometries Mohamad Y. Mustafa, Per-Arne Sundsbø, Yizhong Xu, Geanette Polanco	
10:55	11:15	Analysis of air flow through porous panels and its application to weather shielding structures Taoying Huang, Per-Arne Sundsbø, Mohamad Y. Mustafa, Yizhong Xu, Geanette Polanco	

11:15	11:35	Wind Turbine's Operation in High North Geanette Polanco, Muhammad Virk, Matthew Homola
11:35	12:20	LUNCH
		<i>Energy supply</i>
12:20	12:40	Renewable Energy Integration in Remote Islanded Microgrids: Strategies and Limits Marc Mueller-Stoffels, Philip Maker
12:40	13:00	PV system in cold climates Øystein Kleven, Hanna Persson, Dilip Chithambaranadhan
13:00	13:20	Evaluation of Grid-Interactive Electric Thermal Storage (GETS) Heaters for Islanded Renewable Energy-Diesel Microgrids in Cold Regions Richard Wies, Nicholas Janssen, Rorik Peterson
		<i>Ice loads and forces</i>
13:20	13:40	Preliminary results from 2 years of ice stress measurements in a small reservoir Bård Arntsen, Irina Sæther, Chris Petrich, Ronald Andersen, Bjørnar Sand, Lennart Fransson
13:40	14:00	Energy efficient operations in cold climate Joachim Amland, Knut Espen Solberg, Arnaud Le Breton
14:00	14:15	BREAK
14:15	14:35	First-year ice ridge loads at Norströmsgrund lighthouse Denise Sudom, Louis Poirier, Robert Frederking
14:35	14:55	Numerical simulation of level ice loads on Norströmsgrund lighthouse Bjørnar Sand, Lennart Fransson
14:55	15:15	Structure and internal properties of brash ice covered ship channels Victoria Bonath
15:15	15:35	Numerical simulations of punch shear test on ice rubble using a continuous surface cap model Aniket Patil, Bjørnar Sand, Lennart Fransson

15:35	15:55	Properties of broken ice obtained from collision tests Lennart Fransson
15:55	16:10	BREAK
16:10	16:40	Poster introduction (2 minutes per poster)
16:40	17:30	Poster session with snacks (see separate program)
17:30	18:30	ColdTech session
19:30	22:00	DINNER

Wednesday, 28 May 2014		Room: Ofotbanen	
08:30	09:10	Keynote presentation Challenges caused by cold climate when designing, constructing and operating overhead lines Sonja Berlijn, Bergit Svenning, Statnett, Norway	
09:10	09:20	BREAK	
		Room: Ofotbanen	Room: Narvik
		<i>Construction</i>	<i>Icing</i>
9:20	9:40	Innovative heating solutions for Arctic climate Steinar Os	Icing and performability of Arctic offshore production facilities Abbas Barabadi
9:40	10:00	Artificial Thawing of Seasonally Frozen ground Svein-Erik Sveen, Thanh Nguyen Hung	Study of Atmospheric Ice Accretion on Structures Using CFD based Multiphase Numerical Approach Muhammad Virk, Umair Mughal, Mohamad Y. Mustafa
10:00	10:20	Winter Casting of Power mast Rock Foundations Chris Petrich, Bård Arntsen, Irina Sæther	Physical Techniques for Robust Measurement of Icing Parameters Umair Mughal, Muhammad Virk

			<i>Oil Spills</i>
10:20	10:40	Energy Performance of Highly Insulated Canadian Wood-Frame Wall Systems Using VIP Michael Swinton, Wahid Maref, Phalguni Mukhopadhyaya, Rock Glazer, Anil Parekh	Biofilter Plantation Technology for Oil Spill Clean-up in the Arctic Coastal Waters Masoud Naseri, Abbas Barabadi, Javad Barabady, Grigorii Voskoboynikov
10:40	10:50	BREAK	
		<i>Construction cont'd</i>	<i>Challenges</i>
10:50	11:10	Performance of a low energy concrete house Bård Arntsen, Ove Lorentzen	Operational challenges and experiences in the Sub-Arctic regions Stig Karlstad, Trond Nilsen, Ingvild Nylund
11:10	11:30	Low Energy Concrete Building - a case study Kim Dahl, Bård Arntsen	Enhancing competitive competence and sustainability of manufacturers in remote high-north regions of Norway through holistic supply chain network design Hao Yu, Wei Deng Solvang, Mohamad Y. Mustafa
11:30	11:50	Replacing spacers and lattice girders with CFRP Gabriel Sas, Bård Arntsen, Cosmin Daescu	
11:50	12:00	Closing session	
12:00	13:00	LUNCH	

Poster session		Room: Ofofbanen
<i>Wind</i>	<i>Effect of corrugations on flow through porous baffles used as weather shelters on oil and gas platforms</i> Geanette Polanco, Mohamad Y. Mustafa, Yizhong Xu	
	<i>Numerical modeling of snowdrift development around a porous fence</i> Yizhong Xu, Mohamad Y. Mustafa, Muhammad S. Virk, Geanette Polanco	
	<i>Application of Microphone Arrays for the Detection of Acoustic Noise in Porous Panel Shields</i> Qi Gao, Mohamad Y. Mustafa, Qusai Z. Al-Hamdan, Yizhong Xu, Geanette Polanco, Albara Mustafa	
<i>Energy supply</i>	<i>Pre-feasibility investigation on PV/wind hybrid power systems in Scandinavia</i> Yunfei Hu, Juan Cardenas, Hanna Persson	
<i>Ice Loads and Forces</i>	<i>Ice ridge characteristics by geographic region</i> Denise Sudom, Garry Timco	
	<i>Three years of measurements of sea ice conditions in the Barents Sea and Fram Strait</i> Chris Petrich, Bjørnar Sand, Aniket Patil, Rune Nilsen, Tore Pettersen, Victoria Bonath, Knut Espen Solberg, Håvard Nyseth, Arnaud Le Breton, Joachim Amland, Denise Sudom	
<i>Icing</i>	<i>A study of the changes in freeboard, stability and motion response of ships and semi-submersible platforms due to vessel icing</i> Lise Eide Wold, Ove T. Gudmestad	
	<i>Application of Self & Mutual Capacitance Techniques for Atmospheric Ice Detection & Measurements</i> Taimur Rashid, Umair Mughal, Muhammad Virk	
	<i>Design & Manufacturing of Atmospheric Icing Sensor Using a Computer Aided Manufacturing Facility</i> Uzair Mughal, Umair Mughal, Muhammad Virk	
	<i>Intelligent Anti/Deicing System for Structures in Cold Regions</i> Kamran Zaman, Mohamad Y. Mustafa, Umair Mughal, Muhammad Virk	
<i>Challenges</i>	<i>Networks, Research and Development for Sustainable Vessel Operations in Ice-Covered Waters Based in Northern Norway</i> Chris Petrich, Tor Husjord	
<i>Oil Spills</i>	<i>Studies of oil encapsulation and entrainment in sea ice</i> Chris Petrich, Ross Wakelin	

<i>Construction</i>	<i>Intelligent Heat Energy Distribution System for Enclosed Structures in Cold Climate</i> Kamran Zaman, Mohamad Y. Mustafa, Rajnish K. Calay, Bjørn R. Sørensen
<i>ColdTech</i>	<i>Atmospheric Icing & Sensors- An Overview of Ongoing Research Activities in COLDTECH-RT3 Project</i> Muhammad Virk
	<i>Weather Protection Design and Performance Research within ColdTech RT1- Project</i> Mohamad Y. Mustafa