

## SUNDAY - SEPTEMBER 8, 2013

- 16:00 - 19:00** WAIS 2013 Registration - Main Lobby  
**19:00 - 22:30** WAIS 2013 Icebreaker Party - Court Garden

## MONDAY - SEPTEMBER 9, 2013

- 7:30 - 8:30** Breakfast (60 minutes) - Court Garden  
**8:30 - 8:40** Welcome Address/Opening Business - Salon A  
**8:40 - 12:30** SESSION 1 - ANTI-ICING / DE-ICING  
Oral Presentations, Session Chairperson: Xingliang Jiang - Salon A  
**8:40 - 9:00** Xingliang Jiang - "Strategies and Status of Anti-icing and Disaster Reduction for Power Grid after the 2008 Ice Storm in China" - Salon A  
**9:00 - 9:20** Miroslav Radojicic - "Comparative testing of different anti-ice coatings for overhead line conductors with special focus on ice accretion, RIV and visual impact" - Salon A  
**9:20 - 9:40** Reza Jafari - "Design of superhydrophobic/icephobic composite coatings" - Salon A  
**9:40 - 10:00** Ladan Foroughi Mobarakeh - "Effect of plasma deposition time on ice repellency of plasma polymerized HMDSO film"  
**10:00 - 10:20** Haruka Endo - "Behavior of a small water droplet on a superhydrophobic coating in a cold environment" - Salon A  
**10:20 - 10:40** Mitsugu Hasegawa - "Numerical study of the freezing process of minute water droplet on superhydrophobic surface" - Salon A  
**10:40 - 11:10** Tea & Coffee Break (30 minutes) - Court Garden  
**11:10 - 11:30** Faranak Arianpour - "Effect of immersion time on the hydrophobic and icephobic properties of self - assembled silane coatings on Al Substrates" - Salon A  
**11:30 - 11:50** Shahram Farhadi - "Corrosion resistance, ice-releasing performance and stability of nanostructured superhydrophobic surfaces on Al substrates" - Salon A  
**11:50 - 12:10** Gelareh Momen - "Delayed freezing time on various nanocomposite superhydrophobic surfaces" - Salon A  
**12:10 - 12:30** Siavash Asadollahi - "Development of silicon-based superhydrophobic/icephobic surfaces by an atmospheric pressure plasma jet" - Salon A  
**12:30 - 14:00** Lunch Break (90 minutes) - Salon A  
**14:00 - 17:00** SESSION 2 - ICING IN WIND ENERGY  
Oral Presentations, Session Chairperson: Göran Ronsten - Avalon/Battery

- 14:00 - 14:20** Michael Abbott - "Design and Implementation of a Wind and Icing Monitoring System for 80m Wind Turbines in Northern Labrador" - Salon A  
**14:20 - 14:40** Antoine Lacroix - "Assessment of Wind Energy Production Penalties Due to Cold Climate in Canada" - Salon A  
**14:40 - 15:00** Niels-Erik Clausen - "Recommended practices for wind energy in cold climates - resource assessment and site classification" - Salon A  
**15:00 - 15:20** Qin Hu - "Research Review of Wind Turbine Blade's Icing and Anti-icing/De-icing" - Salon A  
**15:20 - 15:40** Tea & Coffee Break (20 minutes) - Court Garden  
**15:40 - 16:00** Adriána Hudecz - "Ice accretion on wind turbine blades" - Salon A  
**16:00 - 16:20** Matthew Wadham-Gagnon - "Field Measurements of Wind Turbine Blade Icing" - Salon A  
**16:20 - 16:40** Ville Lehtomäki - "Ice Induced Vibrations on Wind Turbines" - Salon A  
**16:40 - 17:00** Neil Davis - "Forecasting Production Losses by Applying the Makkonen Icing Model to Wind Turbine Blades" - Salon A  
**19:00 - 22:00** Banquet - Salon A

## TUESDAY SEPTEMBER 10, 2013

- 7:30 - 8:30** Breakfast (60 minutes) - Court Garden  
**9:00 - 10:40** SESSION 3 - ICING MEASUREMENT & MODELLING  
Oral Presentations, (Part 1) Session Chairperson: Svein Fikke - Avalon/Battery  
**9:00 - 9:20** Árni Jón Eliasson - "Wet - snow Accumulation - A Study of two severe Events in complex Terrain in Iceland" - Avalon/Battery  
**9:20 - 9:40** Hálfdrág Ágústsson - "Evaluation of Wet - snow Accretion Models with Field Measurements" - Avalon/Battery  
**9:40 - 10:00** Bjørn Egil Kringlebotn Nygaard - "A study on the sticking efficiency of wet snow using 50 years of observations" - Avalon/Battery  
**10:00 - 10:20** Matthew Wadham - Gagnon - "Met mast configuration guidelines in Cold Climate" - Avalon/Battery  
**10:20 - 10:40** Lasse Makkonen - "Icing of a 328m tall tower - a case study" - Avalon/Battery  
**10:40 - 11:10** Tea & Coffee Break (30 minutes) - Avalon/Battery  
**11:10 - 12:30** SESSION 3 - ICING MEASUREMENT & MODELLING  
Oral Presentations, (Part 2) Session Chairperson: Lasse Makkonen - Avalon/Battery

- 11:10 - 11:30** Brian Wareing - "A New Severe Weather test site for OHL conductors and fittings" - Court Garden  
**11:30 - 11:50** Kathleen F. Jones - "Winter measurements of sea spray at Mt. Desert Rock" - Avalon/Battery  
**11:50 - 12:10** Toshihiro Ozeki - "Laboratory experiments of saline water spray icing - Features of hydrophilic and hydrophobic pliable sheets" - Avalon/Battery  
**12:10 - 12:30** Xinbo Huang - "Ice Growth Prediction Model of Transmission Lines Based on Mamdani-type Fuzzy Neural Network" - Avalon/Battery  
**12:30 - 14:00** Lunch Break (90 minutes) - Court Garden  
**14:00 - 16:00** SESSION 4 - CONDUCTORS/INSULATORS/FLASHOVER  
Oral Presentations, Session Chairperson: Masoud Farzaneh  
**14:00 - 14:20** Fanghui Yin - "Influence of Electric Field on Conductor Icing" - Avalon/Battery  
**14:20 - 14:40** Zhijin Zhang - "Study on the Influence of Mixed-phase ice on Corona Inception Voltage of Smooth Conductor" - Avalon/Battery  
**14:40 - 15:00** Borut Zemljarič - "Post line insulator and classical insulator dynamics at snow shedding" - Avalon/Battery  
**15:20 - 15:40** Hiroya Homma - "Evaluation on Flashover Voltage Property of Snow Accreted Insulators for 154kV Transmission Lines" - Avalon/Battery  
**15:40 - 16:00** Sonja Berlijn - "Summarizing results and knowledge from laboratory ice and snow test on glass and composite insulators for overhead lines" - Avalon/Battery  
**16:00 - 18:00** Tea & Coffee Break & Formal Poster Session (2 hours) - Court Garden  
**16:30 - 18:00** International Advisory Committee (IAC) Meeting - Avalon/Battery  
**18:30 - 21:00** Nalcor Energy Sponsored Dinner for IAC Members and Accompanying Persons (NOTE: Dinner location will be announced at or before the meeting)

## WEDNESDAY SEPTEMBER 11, 2013

- 7:30 - 8:30** Breakfast - Court Garden  
**8:40 - 10:40** SESSION 5 - ICING CLIMATE & ICING FORECASTING  
Oral Presentations, Session Chairperson: Jaroslav Šabata - Avalon/Battery  
**8:40 - 9:00** William Henson - "Forecasting of Icing Events and Icing Accumulation on Transmission Lines at Hawke Hill, New-foundland and Labrador" - Avalon/Battery  
**9:00 - 9:20** Svein M. Fikke - "Application of numerical weather fore-casting models on atmospheric icing in Long Range Mountains" - Avalon/Battery

- 9:20 - 9:40** Sergey Cheresnyuk - "A new set of climatic loads maps for Russia" - Avalon/Battery
- 9:40 - 10:00** Svein M. Fikke - "The development of new design maps for ice and wind loads for Great Britain" - Avalon/Battery
- 10:00 - 10:20** Sergey Cheresnyuk - "Icing conditions forecast using weather forecast model COSMO-RU" - Avalon/Battery
- 10:20 - 10:40** Xunjian Xu - "Short-term Winter Icing Climate Prediction of power line Based on the Polar Vortex Area and the Subtropical High" - Avalon/Battery
- 10:40 - 11:10** Tea & Coffee Break (30 minutes) - Avalon/Battery
- 11:10 - 12:30** SESSION 6 - VARIOUS ICING TOPICS  
Oral Presentations, Session Chairperson: Paul Mitten - Avalon/Battery
- 11:10 - 11:30** Asim Haldar - "Guide for the Preparation of an Emergency Restoration Plan" - Avalon/Battery
- 11:30 - 11:50** Hongxian Zhang - "Research and engineering application of power grid large-scale ice-disaster prevention and cure technology" - Avalon/Battery
- 11:50 - 12:10** Holger H. Koss - "Influence of Icing on Bridge Cable Aerodynamics" - Avalon/Battery
- 12:10 - 12:30** Chun Zhao - "A Portable DC De-icer for Rural Power Network Transmission Line" - Avalon/Battery
- 12:30 - 14:00** Lunch Break (90 minutes) Newfoundland - Court Garden
- 14:00 - 14:20** Muhammad Virk - "Atmospheric Icing on Structures: COLDTECH-RT3 Perspective" - Avalon/Battery
- 14:40 - 15:00** H. Banitalebi Dehkordi - "Wind tunnel glaze ice simulation on a vertical angle member for different aerodynamic angles" Newfoundland - Avalon/Battery
- 15:00 - 15:30** PRESENTATIONS BY SPONSORS & EXHIBITORS - Avalon/Battery
- 15:30 - 16:00** Tea & Coffee Break (30 minutes) Newfoundland - Court Garden
- 16:00 - 16:15** CLOSING ADDRESS - Avalon/Battery

#### THURSDAY - SEPTEMBER 12, 2013

**Depart 8:30** Optional Site Visit to Hawke Hill and Fermeuse Wind Power Project  
**Return 15:30**

**PLEASE NOTE:** This requires separate registration and cost. Also, safety boots are required to visit Hawke Hill. Please gather in the main lobby of the Sheraton Hotel by 8:15 to board vehicles

# IWAIS

15<sup>TH</sup> INTERNATIONAL WORKSHOP  
ON ATMOSPHERIC ICING OF STRUCTURES

## FOR MORE INFORMATION, CONTACT:

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# IWAIS

15<sup>TH</sup> INTERNATIONAL WORKSHOP  
ON ATMOSPHERIC ICING OF STRUCTURES

SEPTEMBER 8 - 11, 2013  
ST. JOHN'S, NL CANADA

SHERATON HOTEL NEWFOUNDLAND

ORGANIZED BY:

**COMPUSULT**

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