

Program

Mon, 28-Nov-22		v1.0 - 24.11.2022
19:00-21:00	<i>Icebreaker, Kieglekroa</i>	
Tue, 29-Nov-22		
09:00-09:45	Opening Session	Richard Hann, NTNU, UAV Icing Lab
09:45-10:30	Keynote: Emerging ice protection opportunities in aerospace	Kim Sørensen, UBIQ Aerospace
10:30-11:00	Break	
	Technical Session: Ice Detection	
11:00-12:15	01 Modeling, Identification and Detection of Aircraft Icing	Christoph Deiler, German Aerospace Center (DLR)
	02 Cybernetics approach to icing detection on small fixed-wing UAVs	Bogdan Løv-Hansen, NTNU UAV Icing Lab
	03 Low Power Local Ice Detection - Atmospheric Icing Patch	Ian Roberts, AeroTex UK LLP
12:15-13:30	Lunch	
	Technical session: Ice Protection Systems	
13:30-15:00	04 UAV Icing Physics & Innovative Anti-/De-icing Strategies for UAV Icing Mitigation	Hui Hu, Iowa State University
	05 Optimization of a Thermal Ice Protection System at different Reynolds numbers	Mariachiara Gallia, Politecnico di Milano
	06 Development of an ice protection system for UAV propellers	Nicolas Müller, UBIQ Aerospace, UAV Icing Lab
	07 Energy Efficiency of UAV Ice Protection Systems	Joachim Wallisch, NTNU, UAV Icing Lab
15:00-15:30	Break	
	Technical Session: Icing Aerodynamics	
15:30-16:30	08 Low-dimensional Models for Aerofoil Icing	David Masegur, University of Southampton
	09 Ice accretion on Unmanned Aerial Vehicle	Manaf Muhammed, University in Tromsø
	10 In-flight icing on small fixed-wing UAVs	Markus Lindner, NTNU, UAV Icing Lab
	11 UAM Icing: CFD icing simulations on rotors for eVTOLs	Henidya Heramarwan, NTNU, UAV Icing Lab
19:00-21:00	<i>Dinner, Scandic Nidelven</i>	
Wed, 30-Nov-22		
09:00-09:45	Keynote: UAS Experiences from Operating in Arctic Environments	Peter Webley, University of Alaska Fairbanks
	Technical Session: Icing Protection Systems	
09:45-10:30	12 Freezing Point Depressant Ice Protection for Small UAV Propellers	Robert Harden, CAV Systems
	13 Super-low ice adhesion surfaces	Zhiliang Zhang, NTNU, Nano Lab
10:30-11:00	Break	
	Technical Session: Other Topics	
11:00-12:15	14 Atmospheric icing forecasts at MET-Norway	Björg Jenny Engdahl, MET-Norway
	15 Austrian R&D Activities in UAV Icing	David Kozomara, Austrian Institute for Icing Sciences
	16 Path planning under icing conditions	Michael Cheung, NTNU, UAV Icing Lab
12:15-13:30	Lunch	
	Technical Session: Testing	
13:30-15:00	17 UAV light icing measurements using photogrammetry technique	Anadika Paul Baghel, TU Braunschweig
	18 Experimental and numerical icing activities at ONERA	Olivier Rouzaud, ONERA
	19 Full scale flight testing of de-icing on a SUAS	Torbjorn Houge, Maritime Robotics
	20 VTT Icing Wind Tunnel as a unique test facility for UAV/RPAS related research	Raul Prieto, Technical Research Centre of Finland
15:00-15:30	Break	
15:30-16:30	Panel Discussion & Closing Session	Hann Richard, NTNU, UAV Icing Lab

