

12:00PM – 4:50PM, July 27, 2021 (Time Zone: NDT)				
	Applied Colonge Managinal Hairs in			
Dr. Dennis Peters, Acting Dean, Faculty of Engineering and Applied Science, Memorial University Dr. François Moreney, President of CEDSC				
	Session 2: Aeroacoustics			
	Session Chair: Clinton Groth (University of Toronto)			
Supérieure)				
	CFD2021-038 The Third Golden Age of			
	Aeroacoustics			
	Stéphane Moreau (Université de Sherbrooke)			
(Memorial University)				
CFD2021-042 Construction of an Energy Spectrum in a	CFD2021-004 Computational Schema for Wind			
	Turbine Noise Prediction			
	Zhi Cheng (University of Waterloo), Fue-Sang Lien (University of Waterloo), Eugene Yee (University of			
(wewaster Oniversity), 3. Tunis (wewaster Oniversity)	Waterloo), Hang Meng (North China Electric Power			
	University)			
CFD2021-022 Improved Tensor Basis Neural Network	CFD2021-009 Far-Field Aero-Acoustic Prediction			
	Using High-Order Implicit Large Eddy Simulation Mohsen Hamedi (Concordia University), Brian			
	Vermeire (Concordia University), Brian			
Waterloo)	(			
CFD2021-002 Non-equilibrium Turbulent Boundary	CFD2021-016 On the Perturbation Signal Tracking			
	Techniques for Unsteady Compressible Flows			
	<u>Kameswara Aditya Bharadwaj Nemana</u> (McGill University), Evgeny Timofeev (McGill University)			
	University), Evgeny Thiloreev (weedin University)			
University), Stéphane Moreau (Université de Sherbrooke)				
Break				
	perieure)			
	Session 4: Turbulence Modelling B			
Session Chair: Stéphane Moreau (Université de	Session Chair: Rajeev Jaiman (University of British			
	Columbia)			
	CFD2021-036 Validation of Compressible Nozzle Modelling using Experimental Results from			
	Supersonic Ejectors			
	Jean-Luc Olsen (University of Alberta), Carlos F.			
Groth (University of Toronto)	Lange (University of Alberta)			
	CFD2021-010 Influence of Nozzle Inlet Initial			
	Turbulence Level on the Development of an			
Carlos A Pereira (Concordia University) Brian C	A visummetric Turbulant let			
<u>Carlos A. Pereira</u> (Concordia University), Brian C. Vermeire (Concordia University)	Axisymmetric Turbulent Jet Nimesh Virani (University of Windsor), Vesselina			
<u>Carlos A. Pereira</u> (Concordia University), Brian C. Vermeire (Concordia University)	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram			
Vermeire (Concordia University)	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor)			
Vermeire (Concordia University) CFD2021-041 Proper Orthogonal Decomposition and	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor) CFD2021-033 Dynamic Modelling of Near-surface			
Vermeire (Concordia University) CFD2021-041 Proper Orthogonal Decomposition and Velocity Correlations of Flow Over a Backward-Facing	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor) CFD2021-033 Dynamic Modelling of Near-surface Turbulence in Large Eddy Simulation of Wind Farm			
Vermeire (Concordia University) CFD2021-041 Proper Orthogonal Decomposition and	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor) CFD2021-033 Dynamic Modelling of Near-surface			
Vermeire (Concordia University)   CFD2021-041 Proper Orthogonal Decomposition and   Velocity Correlations of Flow Over a Backward-Facing   Step   Hanieh KhaliliParam (University of Windsor), Vesselina   Roussinova (University of Windsor), Ram Balachandar	<u>Nimesh Virani</u> (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor) CFD2021-033 Dynamic Modelling of Near-surface Turbulence in Large Eddy Simulation of Wind Farm Jagdeep Singh (Memorial University), Jahrul Alam			
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Vermeire (Concordia University)   CFD2021-041 Proper Orthogonal Decomposition and   Velocity Correlations of Flow Over a Backward-Facing   Step   Hanieh KhaliliParam (University of Windsor), Vesselina   Roussinova (University of Windsor), Ram Balachandar   (University of Windsor)   CFD2021-037 Extended Hydrodynamics Using the   Discontinuous-Galerkin Hancock Method	Nimesh Virani (University of Windsor), Vesselina Roussinova (University of Windsor), Ram Balachandar (University of Windsor)CFD2021-033 Dynamic Modelling of Near-surface Turbulence in Large Eddy Simulation of Wind Farm Jagdeep Singh (Memorial University), Jahrul Alam (Memorial University)CFD2021-045 Hyperbolic Equivalent k-e and k-w Turbulence Models for Moment-Closures			
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	Welcome and Opening Remarks   Dr. Dennis Peters, Acting Dean, Faculty of Engineering and   Dr. François Morency, President of CFDSC   Session 1: Turbulence Modelling A   Session Chair: Marlène Sanjosé (École de Technologie   Supérieure)   CFD2021-040 Statistical Analysis of the Role of Vortex   Stretching in Large Eddy Simulation   Mohammed Khalid Hossen (Memorial University),   Asokan Variyath (Memorial University), Jahrul Alam   (Memorial University)   CFD2021-042 Construction of an Energy Spectrum in a   Synthetic Turbulence Generator   Nikita Holyeev (McMaster University), M.F. Lightstone   (McMaster University), S. Tullis (McMaster University)   CFD2021-022 Improved Tensor Basis Neural Network   for Turbulence Modelling   Ryley McConkey (University of Waterloo), Eugene Yee   (University of Waterloo), Fue-Sang Lien (University of   Waterloo)   CFD2021-002 Non-equilibrium Turbulent Boundary   Layer with Adverse Pressure Gradient and Convex Wall   Curvature   Saurabh Pargal (Université de Sherbrooke), Hao Wu   (Université de Sherbrooke), Junlin Yuan (Michigan State   University), Stéphane Moreau (Université de Sherbrooke)   Break <td< td=""></td<>			



	12:00PM-5:10PM, July 28, 2021 (Time Zone: NDT)		
	Session 5: Application Session Chair: Kevin McTaggart (DRDC Atlantic)	Session 6: Multi-phase Flow A Session Chair: Jahrul Alam (Memorial University)	
12:00PM-12:20PM	CFD2021-055 Experimental and CFD Study of KCS Hull- Propeller-Rudder Interaction for Steady Turning Circles Yugo Sanada (University of Iowa), Sungtek Park (University of Iowa), Dong Hwan Kim (University of Iowa), Zhaoyuan Wang (University of Iowa), Hironori Yasukawa (Hiroshima University), <u>Frederick Stern</u> (University of Iowa)	CFD2021-011 High-Order Maximum-Entropy Moment Closures for Modelling Polydisperse Polykinetic Liquid Sprays <u>Kevin A. Brooks</u> (University of Toronto), C. P. T. Groth (University of Toronto), H. Xu (Pratt & Whitney Canada), J. T. C. Hu (Pratt & Whitney Canada)	
12:20PM-12:40PM	CFD2021-049 Simulation of Planing Hull Motions in Calm Water and Waves with Overset Grid Shanqin Jin (Memorial University), Ruosi Zha (Memorial University), Heather Peng (Memorial University), Wei Qiu (Memorial University), Ryan Hunter (MetalCraft Marine), Sean Thompson (MetalCraft Marine)	CFD2021-015 Extension of SU2 CFD Capabilities to 3D Aircraft Icing Simulation <u>Kevin Ignatowicz</u> (École de Technologie Supérieure), François Morency (École de Technologie Supérieure), Héloïse Beaugendre (University of Bordeaux)	
12:40PM-1:00PM	CFD2021-043 A Solid-Solid Parallel Overset Method Using Chapel <u>Michael Gagnon</u> (Polytechnique Montreal), Frederic Plante (Polytechnique Montreal), Simon Bourgault-Cote (Polytechnique Montreal), Eric Laurendeau (Polytechnique Montreal)	CFD2021-018 Eulerian-Based Moment Closure Method for Predicting Polydisperse, Polykinetic, Liquid Sprays <u>Tim F. Leung</u> (University of Toronto), Clinton P. T. Groth (University of Toronto)	
1:00PM-1:20PM	CFD2021-026 High-Fidelity Geometry, Fault-Tolerant Meshing, Resolving Runtime Errors in Motorsport CFD Applications <u>Mark Lin</u> (San Jose State University), Periklis Papadopoulos (San Jose State University)	CFD2021-021 A Positivity-Preserving Scheme for the Aircraft Icing Droplet Equations within SU2 <u>Thomas Vigier</u> (University of Bordeaux), Héloïse Beaugendre (University of Bordeaux), François Morency (École de Technologie Supérieure)	
1:20PM - 1:40PM	CFD2021-053 Developing Best Modelling Practices for RANS Simulations of Propeller-Hull Interaction Ruosi Zha (Memorial University), Shanqin Jin (Memorial University), <u>Heather Peng</u> (Memorial University), Wei Qiu (Memorial University), Chad Oldfield (Vard Marine Inc.), Barton Stockdill (Robert Allan Ltd.)	CFD2021-024 IBM-VoF Simulation of Wet Particle Collision Dynamics <u>Erfan Pirmorad</u> (University of Toronto), Markus Bussmann (University of Toronto)	
1:40PM - 2:00PM	Break		
2:00PM - 3:00PM	Keynote: CFD Insights Ship Flows and Structural Intera Session Chair: Wei Qiu (Memorial University)	ction by Dr. Frederick Stern	
3:00PM - 3:10PM	Break		
	Session 7: Atmospheric and Environmental Flow	Session 8: Multi-phase Flow B	
3:10PM-3:30PM	Session Chair: Heather Peng (Memorial University) CFD2021-005 Modelling Turbulence in Landfill Gas Flow: Ingress into a Horizontal Well <u>Abhishek Baral</u> (Thompson Rivers University), Yana Nec (Thompson Rivers University)	Session Chair: Carlos Lange (University of Alberta) CFD2021-034 Investigation of the Multi-Particle Arch Performance at the Sand Filter Opening under Transient Condition of the Flow Fatemeh Razavi (University of Alberta), Alexandra Komrakova (University of Alberta), Carlos F. Lange (University of Alberta)	
3:30PM-3:50PM	CFD2021-051 Comparison of 2-D and 3-D RANS Studies on Effects of Leading-Edge Propeller Manufacturing Defects on Cavitation Performance Shanqin Jin (Memorial University), <u>Ruosi Zha</u> (Memorial University), Heather Peng (Memorial University), Wei Qiu (Memorial University)	CFD2021-056 A Coarse-Grained DEM study. Part I: Taking Care of Missed Contacts Yann Dufresne (University of Sherbrooke), Micaël Boulet (Enerkem), Stéphane Moreau (University of Sherbrooke)	
3:50PM - 4:10PM	CFD2021-006 Outlet Loss in Archimedes Screw Generators Scott Simmons (University of Guelph), Amir Aliabadi (University of Guelph), William David Lubitz (University of Guelph), Guilhem Dellinger (ICube Laboratory)	CFD2021-057 A Coarse-Grained DEM Study. Part II: The Influence of Coarse Graining on the Onset of Instabilities in HCS <u>Yann Dufresne</u> (University of Sherbrooke), Micaël Boulet (Enerkem), Stéphane Moreau (University of Sherbrooke)	
4:10PM - 4:30PM	CFD2021-013 Numerical Simulation of Dam-Break Flood Flows on Sloping Beds <u>Mostafa Bigdeli</u> (University of Ottawa), Abdolmajid Mohammadian (University of Ottawa)	CFD2021-032 A Multi-Region CFD Model for Aircraft Ground Deicing by Dispersed Liquid Spray Sami Ernez (École de Technologie Supérieure), François Morency (École de Technologie Supérieure)	
4:30PM - 4:50PM	CFD2021-050 3D Comparable Studies on Effects of Leading-Edge Propeller Manufacturing Defects on Cavitation Performance <u>Ruosi Zha</u> (Memorial University), Shanqin Jin (Memorial University), Heather Peng (Memorial University), Wei Qiu (Memorial University)	CFD2021-044 Surface-Weighted Gaussian Moment Method for Polydisperse Multiphase Flow <u>Mathieu Marchildon</u> (University of Ottawa), Lucian Ivan (Canadian Nuclear Laboratories), James McDonald (University of Ottawa)	

## CFD2021 Conference Program



	CFD2021-027 Simulating Water-in-oil Emulsions in	CFD2021-001 Comparison of Phase Change Models
	OpenFOAM	in OpenFOAM to Simulate Flashing of Steam
4:50PM - 5:10PM	Mingze Gao (University of Alberta), Stanley John	Stanley John (University of Alberta), Carlos F. Lange
	(University of Alberta), Carlos F. Lange (University of	(University of Alberta)
	Alberta)	

12:00PM – 5:15PM, July 29, 2021 (Time Zone: NDT)				
	Session 9: Aerospace	Session 10: Heat and Mass Transfer		
	Session Chair: Marlène Sanjosé (École de Technologie Supérieure)	Session Chair: Xili Duan (Memorial University)		
12:00PM - 12:20PM	CFD2021-008 Sequential Data Assimilation of One- Dimensional MHD Flows Jose H. Arnal (University of Toronto), Clinton P. T. Groth (University of Toronto)	CFD2021-054 Preferential Concentration of Polydispersed Particles in Gas Phase <u>Ahmed Saieed</u> (University of Waterloo), Mustafa Rahman (University of Waterloo), Jean-Pierre Hickey (University of Waterloo)		
12:20PM - 12:40PM	CFD2021-014 Numerical Study of the Transition from Regular to Mach Reflection in Air on Smooth Wedges and Semicircular Cylinders <u>Marcel Grzeszczyk</u> (University of Toronto), J. J. Gottlieb (University of Toronto), C. P. T. Groth (University of Toronto)	CFD2021-020 A Second-Order Maximum-Entropy- Inspired Interpolative Moment Closure Technique for the Prediction of Radiative Heat Transfer in Non- Gray Participating Media Joachim A. R. Sarr (University of Toronto), Clinton P. T. Groth (University of Toronto)		
12:40PM - 1:00PM	CFD2021-028 Aerodynamics of a Cascaded Airfoil Wind Turbine (CAWT) Rotor <u>Harvard M. Farrant</u> (Laurentian University)	CFD2021-031 Methodology for Simulating Ablative Polymer Mass Transport with Very Large Schmidt Numbers for Polymer Drag Reduction Joshua. J. White (University of New Brunswick) A. G. L. Holloway (University of New Brunswick), T. L. Jeans (University of New Brunswick)		
1:00PM - 1:20PM	CFD2021-030 Advances in Multi-Disciplinary PDE- Constrained Optimization <u>Hamid R. Karbasian</u> (Concordia University), Brian C. Vermeire (Concordia University)	CFD2021-035 RANS-Based Two-Equation Model with Tabulated Chemistry for the Prediction of Soot Formation in Turbulent Non-Premixed Flames Ken Miura (University of Toronto), Jacques Y. Xing (University of Toronto), Joachim A. R. Sarr (University of Toronto), <u>Clinton P. T. Groth</u> (University of Toronto), Hang Xu Pratt (Whitney Canada), John T. C. Hu (Pratt & Whitney Canada)		
1:20PM - 1:40PM	CFD2021-052 Uncertainty Analysis for CFD Simulations of Flow over Plate and Foil with OpenFOAM <u>Shanqin Jin</u> (Memorial University), Ruosi Zha (Memorial University), Heather Peng (Memorial University), Wei Qiu (Memorial University)	CFD2021-047 A 2D Axisymmetric CFD Model of a Rotary Lime Kiln Jarod Ryan (University of Toronto), Markus Bussmann (University of Toronto), Nikolai DeMartini (University of Toronto)		
1:40PM - 2:00PM	Break			
2:00PM - 3:00PM	Keynote: Multiscale Simulations of Liquid Crystalline Materials by Dr. Dana Grecov Session Chair: Carlos Lange (University of Alberta)			
3:00PM - 3:15PM	Break			
3:15PM - 4:15PM	Panel Discussions: CFD for Marine Application – Challenges and Ways Ahead Panelists: Dr. Kevin McTaggart (DRDC Atlantic), Barton Stockdill (Robert Allan Ltd.), Chad Oldfield (Vard Marine Inc.) and Dr. Rajeev Jaiman (University of British Columbia) Session Chair: David Molyneux (Memorial University)			
4:15PM - 5:15PM	AGM and Student Paper Awards			

Presenters are underlined.