

24th Canadian Symposium on Fluid Dynamics

Thursday 9th July

Time (EST)	Presentation time (hr:min)	Presentation title	Topic group	Authors & affiliations	Link to abstract	Session chair	
12:20 PM	0:10	Opening of the Symposium		Ian Frigaard			
12:30 PM	0:20	Miscible Viscoplastic Displacements in Axially Rotating Pipes	Non-Newtonian flows	Seyed Mohammad Taghavi and Shan Lyu, Université Laval, Canada	abstract	Nicholas Kevlahan, McMaster University	
12:50 PM	0:20	Impacts of Centrifugal/inertial/symmetric Instabilities on Ocean Surface Fronts	Waves	Nicolas Grisouard, University of Toronto, Canada	abstract		
1:10 PM	0:20	Convection with a Nonlinear Equation of State	Miscellaneous	Jason Olsthoorn, Edmund Tedford, and Gregory Lawrence, University of British Columbia, Canada	abstract		
1:30 PM	0:20	Crossflow Filtration of Viscoplastic Suspensions	Viscous flows	Mahdi Izadi and Ian Frigaard, University of British Columbia, Canada; Seyed Mohammad Taghavi, Université Laval, Canada	abstract		
1:50 PM	0:20	On the Lyapunov Spectrum of Homogeneous, Isotropic Turbulence	Turbulence	Lennaert van Veen, University of Ontario Institute of Technology, Canada	abstract		
2:10 PM	0:20	Break					
2:30 PM	0:20	3D and 2D simulations of primary cementing of surface casings in BC	Non-Newtonian flows	Ruizi Zhang and Ian Frigaard, University of British Columbia, Canada	abstract	Giusy Mazzone, Queen's University	
2:50 PM	0:20	Global Stability of Fluid Flows Despite Transient Growth of Energy	Instabilities	David Goluskin, University of Victoria, Canada; Federico Fuentes, Cornell University, U.S.; Sergei I. Chernyshenko, Imperial College London, United Kingdom	abstract		
3:10 PM	0:20	Helically Symmetric Fluid Flows: Conservation Laws, Similarity Reductions, Exact Solutions	Analytical & computational methods	Alexei F. Cheviakov, University of Saskatchewan, Canada	abstract		
3:30 PM	0:20	Effect of the Electrostatically Charged Particles on Particle Jet	Miscellaneous	Omid Hajieghrary, Sheldon Green, and Boris Stoeber, University of British Columbia, Canada	abstract		
3:50 PM	0:30	Quarantini time - social time with your favourite locktail					

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Friday 10th July

12:30 PM	0:20	On the Convergence of Data Assimilation for the One-Dimensional Shallow Water Equations with Sparse Observations	Waves	Nicholas Kevlahan, McMaster University, Canada	abstract	Seyed Mohammad Taghavi, Université Laval	
12:50 PM	0:20	Modeling of Bacterial Locomotion in a Viscous Fluid	Viscous flows	Vahid Nourian and Henry Shum, University of Waterloo, Canada	abstract		
1:10 PM	0:20	Local and Overall Gas Holdup and Bubble Size in An Aerated Coaxial Mixing System Containing a Non-Newtonian Fluid; Application of Ert and Cfd	Non-Newtonian flows	Maryam Jamshidzadeh, Farhad Ein-Mozaffari, and Ali Lohi, Ryerson University, Canada	abstract		
1:30 PM	0:20	Stability Analysis of a Spinning Top with a Liquid-Filled Cavity	Instabilities	Giusy Mazzone, Queen's University, Canada	abstract		
1:50 PM	0:20	Gels in Ocean Waves – Behaviour and Implications for Spill Response	Non-Newtonian flows	Richard J. Cunningham and Gregory Lawrence, University of British Columbia, Canada; Hassan Sharifi, BC Research, Canada	abstract		
2:10 PM	0:20	Break					
2:30 PM	0:20	Scattering of Inertia-Gravity Waves in Geostrophic Turbulence	Turbulence	Hossein A. Kafiabad, Miles Savva, and Jacques Vanneste, University of Edinburgh, United Kingdom	abstract	David Goluskin, University of Victoria	
2:50 PM	0:20	Three Dimensional Numerical Study of Laminar Displacement Flows in Horizontal Eccentric Irregular Annuli	Non-Newtonian flows	Parisa Sarmadi and Ian A. Frigaard, University of British Columbia, Canada	abstract		
3:10 PM	0:20	Deposition of a Liquid Jet on a Moving Wall	Viscous flows	Xiaohe Liu, Sheldon Green, Neil Balmforth, and Boris Stoeber, University of British Columbia, Canada	abstract		
3:30 PM	0:20	Lubricated Rolling Over A Newtonian Pool	Viscous flows	Hatef Rahmani, Boris Stoeber, Neil Balmforth, and Sheldon Green, University of British Columbia, Canada	abstract		
3:50 PM	0:30	Discussion session - how was the online format & was this successful?					