

Thursday

May 1

8:00 AM	Registration
9:00 AM – 9:20 AM	Official Opening of Conference
9:20 AM – 10:10 AM	Keynote Lecture I: <i>Modelling as a Tool for Sustainable Research in Transport Phenomena</i> Jules Thibault University of Ottawa, Canada
10:10 AM – 10:30 AM	Coffee Break
10:30 AM – 11:20 AM	Keynote Lecture II: <i>Mixed Convective Heat Transfer in Transitional and Turbulent Flows</i> Patrick H. Oosthuizen Queen's University, Canada
11:20 AM – 12:10 PM	Keynote Lecture III: <i>Stability of Evaporating Liquid Films</i> Tarik Kaya Carleton University, Canada
12:10 PM – 1:20 PM	Lunch
1:20 PM -3:20 PM	
Session Name: Fluid Flow, Heat Transfer, and Mass Transfer I	Session Chairs: Dr. Patrick H. Oosthuizen & Dr. Donald D. Gray
1:20 PM – 1:40 PM	Paper 82: <i>Process Optimization for the Electrospinning of Polycaprolactone Nanofibers Using Non-Halogenated Solvents</i> Siavash Sarabi-Maneji, Jennifer Scott, Danny Pagé*
1:40 PM – 2:00 PM	Paper 80: <i>Shock Capturing Numerical Solution for the Boussinesq Type Models with Application to Arterial Bifurcated Flow</i> Alexander S. Liberson* , Jeffrey S. Lillie
2:00 PM – 2:20 PM	Paper 13: <i>Shape of Liquid Bridges in a Horizontal Fracture</i> Morteza Dejam* , Hassan Hassanzadeh, Zhangxin Chen

Session Chair:
Dr. Boguslaw Kruczek

2:20 PM – 2:40 PM	Paper 51: <i>Numerical Modelling of Brine Dischargers using OpenFOAM</i> H. Kheirkhah Gildeh* , Abdolmajid Mohammadian, Ioan Nistor, Hazim Qiblawey
2:40 PM – 3:00 PM	Paper 53: <i>Well-balanced Unstructured Scheme for the Saint-Venant System with Topography</i> Abdelaziz Beljadid* , Abdolmajid Mohammadian, Hazim Qiblawey
3:00 PM – 3:20 PM	Paper 92: <i>Shortcut Methods for Simulating Separation of Multicomponent Gas Mixtures in Membranes</i> Sina Deyhim* , Boguslaw Kruczek, David McCalden, Mazdak Shokrian
3:20 PM – 3:40 PM	Coffee Break
3:40 PM – 6:00 PM	
Session Name: Fluid Flow, Heat Transfer, and Mass Transfer II	Session Chairs: Dr. Tarik Kaya & Dr. Alexander S. Liberson
3:40 PM – 4:00 PM	Paper 93: <i>Membrane Characterization based on the Upstream Pressure Decay in a Dynamic Gas Permeation Test</i> Neveen AlQasas* , Jules Thibault, Boguslaw Kruczek
4:00 PM – 4:20 PM	Paper 57: <i>Application of Analytical Technique to Resolving the Flow Dynamics in Self-wiping Co-rotating Twin Screw Extruders</i> Osaighe Kennedy Amedu* , Roger Penlington, Krishna Busawon
4:20 PM – 4:40 PM	Paper 90: <i>Drop Impingement onto a Wetted Surface: Effects of Thermal Buoyancy and Gravity Level</i> Krishna Teja Medam, Murant Dinc, Donald D. Gray* , John M. Kuhlman
4:40 PM – 5:00 PM	Paper 55: <i>A Well-balanced 2-D Model for Dam-break Flow with Wetting and Drying</i> Xin Liu* , Abdolmajid Mohammadian, Julio Angel Infante Sedano
5:00 PM – 5:20 PM	Paper 83: <i>Numerical Study of Liquid Phase Hydrogen Peroxide Decomposition in Catalytic Micro-Reactors</i> M. Ryan McDevitt, Darren L. Hitt*
5:20 PM – 5:40 PM	Paper 52: <i>Climate Change Impacts on Wind Climatology</i> Hamidreza Shirkhani* , Ousmane Seidou, Abdolmajid Mohammadian, Hazim Qiblawey
5:40 PM – 6:00 PM	Paper 94: <i>Characterization of Inorganic Silicate-1 Membrane to be used for the Separation of Greenhouse Gases</i> David Carter* , Dean Kennedy, F. Handan Tezel, Boguslaw Kruczek

Friday

May 2

9:00 AM – 9:50 AM	Keynote Lecture IV: <i>EPIC – Enabling Process Innovation through Computation</i> Krishnaswamy Nandakumar Louisiana State University, USA	Session Chair: Dr. Jules Thibault
9:50 AM – 10:40 AM	Keynote Lecture V: <i>Development and Application of a Model for Metallic Nanopowders Production in a Thermal Plasma Reactor</i> Pierre Proulx Université de Sherbrooke, Canada	
10:40 AM – 11:00 AM	Coffee Break	
11:00 AM – 11:50 AM	Keynote Lecture VI: <i>Challenges in Membrane Characterization Due to Microflow Measurements</i> Boguslaw Kruczek University of Ottawa, Canada	
11:50 AM – 1:00 PM	Lunch	
1:00 PM – 3:00 PM		
Session Name: Fluid Flow, Heat Transfer, and Mass Transfer III		Session Chairs: Dr. Pierre Proulx & Dr. Darren L. Hitt
1:00 PM – 1:20 PM	Paper 87: <i>Adsorption based Removal of Gas Phase H₂S using Date Palm Pits based Granular Activated Carbon</i> Muhammad S. Vohra	
1:20 PM – 1:40 PM	Paper 88: <i>Production and Use of Heavy Oil Fly Ash based Activated Carbon: Surface Properties and Affect of Surface Charge Properties on to Mass Transfer of Cationic Dyes</i> Muhammad S. Vohra	
1:40 PM – 2:00 PM	Paper 81: <i>Modelling Viscosity based on a Molecular Description</i> Nicolas Riesco, Velisa Vesovic*	

2:00 PM – 2:20 PM	Paper 45: <i>Forced Convection Heat Transfer Enhancement using Porous Blocks within Channels</i> Rachid Nebbali* , Ali Bousri
2:20 PM – 2:40 PM	Paper 14: <i>Electrophoretic Motion of a Charged Particle in a Cavity</i> Tai C. Lee* , Huan J. Keh
2:40 PM – 3:00 PM	Paper 84: <i>Evaluation of Determinant Parameters for Thickening the Engineered Fills Layers</i> Parna Yarbakhti, Abolfazl Eslami*