

TUESDAY JUNE 14th							
TIME	ACTIVITY						
7:30 AM	Breakfast						
	ART lobby						
8:00 AM	Plenary						
	ART 103						
	Gail Wolkowicz						
	<i>A derivation Procedure for Multi-Species Discrete Population Models and Analysis of Planar Models: Introducing the Augmented Phase-Plane</i>						
9:00 AM	Coffee Break						
	ART lobby						
	MS Sessions D						
	ART 102	ART 104	ART 108	ART 110	ART 112	ART 114	ART 103
	MS09: Bifurcations & dynamics in biological systems (part IV)	MS32: Computational mathematics (part I)		MS05: Applications of continuous optimization	MS07: Asymptotic analysis arising in reaction-diffusion systems (part II)	MS08: Batteries: Modeling, simulation, & analysis (part I)	MS22-V: Recent advances on numerical methods for Helmholtz equations
9:30 AM	Chunhua Shan	Xiyuan Li		Henry Wolkowicz	Theo Kolokolnikov	Smita Sahu	Krishna Dutt
	<i>High codimension bifurcations of a predator-prey system with generalized Holling type functional response and Allee effects in prey</i>	<i>A Joint Chirp-Rate-Time-Frequency Transform (JCTFT) for Non-templated BBH Merger Gravitational-Wave Signal Detection Using Spectrograms</i>		<i>Strict Feasibility and Degeneracy in Linear Programming</i>	<i>Stabilization of stripe patterns</i>	<i>A continuum model for both reversible and irreversible lithium plating in lithium-ion batteries</i>	<i>High-order moment limiter for the DG method on quadrilateral meshes Programming with Fields</i>
9:55 AM	Ankai Liu	Cristina Anton		Alexander Iannantuono	Justin Tzou	Robert Timms	Bin Han
	<i>A Quantification of Long Transient Dynamics</i>	<i>Application of Malliavin calculus to error analysis of implicit numerical schemes for SDEs</i>		<i>A Regularization Approach to Smooth Vertical Alignments in Road Design</i>	TBA	<i>Asymptotic reduction of a mechanical model for jelly roll collapse and damage</i>	<i>Dirac Assisted Tree (DAT) method for Helmholtz equations with large wavenumbers</i>
10:20 AM	Sabrina Heike Streipert	Melusi Khumalo		Dominique Monnet	Arvin Vaziry	Andres Galvis	Michelle Michelle
	<i>Method to Derive Discrete Population Models and their Continuous Counterparts</i>	<i>The Finite Element Method for nonlinear Fredholm integral equation of the second kind</i>		<i>Quadratic regularization algorithm: convergence analysis with finite precision computations</i>	<i>Modelling of spatial infection spread through heterogeneous population: from lattice to PDE models</i>	<i>Multiple scales homogenisation of the mechanical behaviour of Li-ion batteries</i>	<i>Sharp Stability Results and Sixth Order Compact Finite Difference Scheme for the 2D Helmholtz Equation</i>
10:45 AM	Lin Wang	Ivonne Medina Lo		Yves Lucet	Maryam Basiri	Bartosz Protas	Wenyuan Liao
	<i>Turing-Hopf bifurcation and its normal form in a diffusive three-species food chain system with strong Allee effect</i>	<i>GPU computing of yield stress fluid flows in narrow gaps</i>		<i>A convex optimization model for the vertical alignment problem in road design</i>	<i>Traveling Wave Solutions for a Free Boundary Problem Modeling Spread of Ecosystem Engineers</i>	<i>Learning optimal forms of the constitutive relations characterizing ion intercalation from data</i>	<i>A Compact High Order Finite Difference Method for Helmholtz Equation</i>
11:10 AM	Prize Talk						
	CAIMS/SCMAI Research Prize						
	ART 103						
	Elina Robeva						
	<i>Orthogonal and Equiangular Tensor Decomposition</i>						

11:55 AM	Lunch						
	Sun Room						
12:30 PM	AGM						
	Sun Room						
	MS SESSIONS E						
	ART 102	ART 104	ART 108	ART 110	ART 112	ART 114	
	MS09: Bifurcations & dynamics in biological systems (part V)		MS03: Advances in splitting methods for time integration	MS26: Stochastic optimization models in pricing & supply chains	MS04: Advances in the efficient numerical solution of PDEs (part I)	MS08: Batteries: Modelling, simulation, & analysis (part II)	
13:30 PM	Xiaoying Wang		Siqi Wei	Sinem Kinay	Maya Neytcheva	Ferran Brosa Planella	
	<i>Studying the fear effect in a one-predator-two-prey system</i>		<i>An intuitive representation and linear stability analysis of Fractional-Step Runge--Kutta methods</i>	<i>Decentralized Online Order Fulfillment in Omni-Channel Retailers</i>	<i>Yet another(?) stage-parallel preconditioner for Implicit Runge-Kutta methods</i>	<i>Asymptotic reduction of battery degradation models (SEI growth and lithium plating)</i>	
13:55 PM	Sarah Wyse		Arash Sharshar	Merve Bodur	Steven Ruuth	Laura Keane	
	<i>Decreasing structural sensitivity in the functional responses of predator-prey models</i>		<i>On time-stepping methods for gradient-flow optimization</i>	<i>Stochastic Dynamic Lot Sizing with Substitution and Service Level Constraints</i>	<i>Schwarz Domain Decomposition Algorithms for the Closest Point Method on Closed Manifolds</i>	<i>Reduction of a lithium-ion solid electrolyte model under potentiostatic hold</i>	
14:20 PM	Pijush Panday		Peter Minev	Mucahit Cevik	Benjamin W. Ong	Doireann O'Kiely	
	<i>Dynamics of a stage-structured predator-prey model incorporating cost and benefit of fear-induced group defense</i>		<i>Splitting schemes for incompressible fluid-structure interaction problems in a stress formulation</i>	<i>Approximate Dynamic Programming for Crowd-shipping with In-store Customers</i>	<i>Iterative Rank-Revealing Randomized Algorithms</i>	<i>Mechanical stress and chemical transport in nanowire batteries</i>	
14:45 PM	Excursion						
	<ul style="list-style-type: none"> * Okanagan Wine Tour * Kettle Valley Railway bike tour * Explore downtown * Hike on Knox Mountain * Or simply relax and visit! 						
21:45 PM							