

TUESDAY MORNING 1 JULY

09:00	Plenary Speaker: Andrea Bertozzi <i>Swarming by Nature and by Design</i> (Christopher Ingold Auditorium)						
10:00	Tea/Coffee						
10:30	Minisymposia			Contributed Talks		Minisymposia	
	Christopher Ingold Auditorium <i>Partial Differential Equations with Tensor Coefficients</i>	Christopher Ingold Chemistry L.T. <i>Mathematical Models for Supply Chains</i>	Christopher Ingold Ramsey L.T. <i>Asymptotic Properties of Complex Random Systems and Applications</i>	Drayton Jevons L.T. <i>Interfacial processes in industrial and environmental turbulent flows</i>	Drayton Ricardo L.T.	Harrie Massey L.T. <i>Inverse Problems and Signal Processing in Industrial Applications</i>	Maths 706 <i>Web Based Courses - Reaching a Distributed Audience (ECMIMIM)</i>
10:30	I. Aavatsmark	O. Rose	A.D. Barbour	S. Voropayev	P.L. Wilson	R. Ramlau	K. Rijpkema
	<i>Control-volume methods on non-K-orthogonal grids: Limitations and shortcomings</i>	<i>Simple simulation models for semiconductor wafer fabrication facilities</i>	<i>Laws of large numbers for epidemic models with countably many types</i>	<i>Dipolar eddies in a decaying stratified turbulent flow</i>	<i>The lipid bilayer at the mesoscale: a physical continuum model</i>	<i>Imbalance detection for industrial problems</i>	<i>Statlab - a virtual environment for design of experiments</i>
10:50				J. Hunt	S. McGinty	R. Kowar	
				<i>Inhomogeneous turbulence at sharp interfaces</i>	<i>Modelling Drug Eluting Stents</i>	<i>Modelling of wave equations obeying frequency dependent attenuation laws for thermoacoustic Tomography</i>	P. Larsen
11:00	M.G. Edwards	M. Laumanns	C. Graham				<i>MAS – a Web based master in applied statistics</i>
	<i>Quasi-Monotonic Families of Continuous Darcy Flux Finite Volume Schemes</i>	<i>Computing the value of transshipment flexibility in distribution networks</i>	<i>A multi-class mean-field model with graph structure for TCP flows</i>				
11:10					A. Caiazzo	C. Borries	
					<i>Complex Automata models for tissue growth in a stented artery</i>	<i>The Application of Wavelet Analysis for the Detection of Planetary Wave Type Oscillations in the Ionospheric Total Electron Content</i>	
11:15				C. Klettner			
11:30	P. Kotzoni	K. Padberg	P. Berenbrink	Dynamics of depressed tsunamis	M. Tindall	R. Pike	V. Masanja
	<i>MPFA and anisotropic diffusion</i>	<i>Dynamics of supply chains under mixed production strategies</i>	<i>Distributed Selfish Load Balancing</i>		<i>A Continuum Model of Hepatic Lipid Metabolism</i>	<i>A new approach to the analysis of scanning optical imaging systems using singular function expansions</i>	<i>Open University and Distant Education in Applied Mathematics, a Third World Perspective</i>
11:40				J. Flor			
11:50				<i>Frontal instability, inertia-gravity wave radiation and vortex formation</i>	A. Speranza	T. Alexandrov	
					<i>Glow discharge modelling in low pressure plasma PVD for industrial applications</i>	<i>Cancer diagnosis based on discrete wavelet transformation of mass spectrometry proteomic data</i>	A. Tepavcevic
12:00	R. Potsepaev	U. Ziegler	I. Norros				<i>University Network of Virtual Education in Serbia</i>
	<i>An upscaling approach to Multipoint Flux Approximations</i>	<i>Design Network Problem and Heuristics</i>	<i>Features of power-law random graphs</i>	M. Braza			
12:05				<i>Organised Eddy Simulation for prediction of thin interfaces in unsteady turbulent wakes flows</i>	S. Rodean	G. Teschke	
12:10					<i>Study on development of the seated human body system. Exposed in vehicular ride vibration environment</i>	<i>Advanced Intermittent Clutter Filtering for Radar Wind Profiler: Signal Separation through a Gabor Frame Expansion and its Statistics</i>	
12:30	Lunch						

TUESDAY AFTERNOON 1 JULY

14:00	Free Time						
15:00	Tea/Coffee						
15:30	Minisymposia			Contributed Talks		Minisymposia	
	Christopher Ingold Auditorium <i>Optimal Treatment Planning in Radiotherapy Based on Boltzmann Transport Calculations</i>	Christopher Ingold Chemistry L.T. <i>Mathematical Models for Supply Chains</i>	Christopher Ingold Ramsey L.T. <i>Mathematical Modelling of Fuel Cells</i>	Drayton Jevons L.T.	Drayton Ricardo L.T.	Harrie Massey L.T. <i>Novel Simulations: Mathematical Modelling from a Different Perspective</i>	Maths 706 <i>Topics in Learning Applied and Industrial Mathematics</i>
15:30	B. Dubroca <i>Reduced angular moment model for the transport of electrons particles: application to radiotherapy</i>	D. Armbruster <i>Simulation and control of semiconductor production lines</i>	B.A. Haberman <i>Multi-Physics Simulation of the Rolls-Royce Solid Oxide Fuel Cell Stack</i>	F. Frunzulica <i>An Advanced Aeroelastic Model for Horizontal Axis Wind Turbine</i>	M. Farber <i>Topology of Robot Motion Planning</i>	G.K. Still <i>Modelling Crowd Dynamics</i>	K. Schmidt <i>How new Technology Changes the Learning in Introductory Mathematics</i>
15:50				H. Dumitrescu <i>Horizontal Axis Wind Turbines in Yaw</i>	O.A. Detesan <i>The Mathematical Model of the Pan-Tilt Unit Used in Noise Measurements in Urban Traffic</i>		
16:00	M. Seaid <i>A Fast and Accurate Method for Dose Computations in Electron Radiotherapy</i>	L. Navoret <i>Analogies between social interactions models and supply chains</i>	A. Kulikovsky <i>Modeling of fuel cell stacks: Approaches and perspectives</i>			N.C. Chamberlain <i>Spares Optimisation Simulation Based Analysis - adding realism to mathematical modelling</i>	K. van Overveld <i>Using ACQA to design a Msc Program Industrial and Applied Mathematics</i>
16:10				L.M.B.C. Campos <i>On the Trajectories of Transatmospheric Vehicles</i>	P. Aston <i>The Dynamics of a Bouncing Superball</i>		
16:30	R. Pinnau <i>Model Hierarchies and Optimal Control</i>	S. Goettlich <i>Optimization of order policies in supply networks</i>	M. Eikerling <i>Physical Modeling of Cathode Catalyst Layers in PEM Fuel Cells: The Role of Porous Structure and Water Accumulation</i>	C. Chauvin <i>Stochastic Downscaling Method: Application to Wind Refinement</i>	M. Knauer <i>Optimization of Satellite Constellations</i>	P. Siebers <i>Agent-Based Simulation a Novel Decision Support Tool for Retail Managers</i>	M. Bracke <i>Modeling Reality - Motivate your students</i>
16:50				A. Tizaoui <i>Matching of Asymptotic Expansion for an eigenvalue problem with two cavities linked by a thin slot</i>	M. Knauer <i>Bilevel Optimization of Container Cranes</i>		
17:00	M. Frank <i>Treatment planning via adjoint calculus</i>		J. Becker <i>Modelling of Two-Phase Behaviour in the Gas Diffusion Layer of PEFCs</i>			P. Goodman <i>The DRACULA Road Traffic Network Microsimulation Model</i>	
17:10				Z. Lakdawala <i>On a Subgrid Approach for Simulating Industrial Filtration Processes</i>	J.M. Gambi <i>Post-Newtonian Space Geolocation</i>		
17:30							
18:00	Plenary Speaker: Ioannis Karatzas <i>Stochastic Portfolio Optimization</i> (Christopher Ingold Auditorium)						