Updated 2 April 2010: Changes are in a green box

	Tuesday	Wednesday	Thursday	Friday
9h	Arrival & Registration	Hazrat / Cowling	Haskins / Stafford	Stallard / Pinch
10h		Buck / Neumann	Staffilani	Martino / Maclagan
11h	**Opening**	Special session 2, Minisymposia 2 & Contributed talks	Minisymposia 4 & Contributed talks	Minisymposia 5 & Contributed talks
12h	MacKay	**Coffee Break**	Embrechts	Zworski
13h	**Lunch Break**	Kerswell BMC AGM in George Square Lecture Theatre	ICMS, INI and KTN presentations in Lt5	**Closing**
14h	Special session 1 & Splinter groups 1 / Minisymposia 1 & Contributed talks	Hacon / Vanden-Eijnden	Lagarias / Maini	
15h		Special session 3 & Splinter groups 3 / Minisymposia 3	Special session 4 & Splinter groups 4 / Contributed talks	
16h	**Tea Break**	**Tea Break and Posters**	**Tea Break**	
17h	Candes	Special session 3 & Splinter groups 3 / Minisymposia 3	Mahadevan	
18h	Wine reception			
Evening	18:30 - 22:00 Young Researchers' Event (Teviot Debating Hall, Bristo Square)	Discussion session (starting at 20:00 in Lt1)	QJMAM Reception and Conference Dinner (starting at 19:00, Our Dynamic Earth)	

Special session 1:
Algebraic geometry I
Spectral theory I

Special session 2:
Dynamical systems

Special session 3:
Algebraic geometry II
Spectral theory II

Special session 4:
Algebraic geometry III

Splinter groups 1:
Algebra and representation theory
Geometric group theory
History of mathematics I

Splinter groups 2:
Algebra and representation theory
Geometric group theory
Number theory
Semigroups, automata and formal languages
Topology

Splinter groups 3:
History of mathematics II
Semigroups, automata and formal languages

Minisymposia 1:
Liquid crystals
Mathematics education

Minisymposia 2:
Mathematics of string theory I
Stochastic partial differential equations
Dynamical systems

Minisymposia 3:
Mathematics of string theory II
Mathematical neuroscience
Geophysical fluids

Minisymposia 4:
Numerical analysis, pdes and applications I
Mathematical medicine
Financial mathematics

Minisymposia 5:
Numerical analysis, pdes and applications II
Mathematics of information
Mathematical ecology and evolution

	Tuesday 6th April
9.00-11.00	Arrival & Registration (Appleton Tower)
11.00-11.30	**Opening** **George Square Lecture Theatre**
11.30-12.30	**Robert MacKay** *Mathematics of Complexity Science* **George Square Lecture Theatre**

Tuesday 6th April

	Spectral theory I Lt1	Algebraic geometry I Lt2	Mathematics education Lt3	Mathematical modelling of cancer Lt4	Biological fluid dynamics 1 Lt5	History of mathematics I Rm2.11
14.00-14.20	**Mathieu Lewin** *Fractional quantum hall effect in rapidly rotating bose gases*	**Klaus Altmann** *The discrete content of Cox rings*	**Christie Marr** *Mathematics Support not Remedial Support*	**Vivi Andasari** *Mathematical modelling of cancer cell invasion of tissue: cell adhesion in the uPA system*	**David Smith** *Swimming in mucus*	**Daniel Mintz** *Mathematics for history's sake: a new approach to Ptolemy's geography*
14.20-14.40				**Maymona Al-husari** *Regulation of intracellular pH and lactate in tumours: a mathematical model*	**Stephen O'Malley** *The effective eccentricity of swimming biflagellates*	**Michael Barany** *'[T]hat, which hath no part': Translating Euclidean Points into English*
	Michael Strauss *Variational principles of unbounded block operator matrices*		**Kevin Golden** *Developing mathematical and statistical skills within the engineering workplace*			
14.40-15.00				**Jonathan Sherratt** *A nonlocal model for cancer invasion*	**Darren Knox** *Mathematical modelling of the human knee joint*	**Nicole Bloye** *Newton, the geometer*
15.00-15.20	**Alexei Iantchenko** *Scattering resonances for periodic Jacobi operators with finitely supported perturbations*	**Tom Bridgeland** *Hall algebras and curve-counting invariants*	**Michael Grove** *The "Upward Transition"*	**Gibin Powathil** *Mathematical modeling and quantification of tumour hypoxia and its effects on radiation therapy*	**Marios Tziannaros** *Modelling bladder collapse*	**Craig Stephenson** *'Periodic Orbits' by G.H. Darwin*
15.20-15.40				**Hiroko Kamei** *An Integrated Pharmacokinetic-Pharmacodynamic Model for an Aurora Kinase Inhibitor*	**Lydia Rickett** *A mathematical model of digestion*	**Mark McCartney** *Lord Kelvin: Great Scot?*
	Matthias Langer *Elliptic operators and singular values*		**Joseph Kyle** *Technology not Gadgetry?*			
15.40-16.00				**James MacLaurin** *Buckling of tumour blood vessels*	**Stephen Glavin** *A model of the urethra*	
16.00-16.30	**Tea break**					
16.30-17.30	**Emmanuel Candes** *The power of convex relaxation: near-optimal matrix completion* **George Square Lecture Theatre**					

Tuesday 6th April

	Liquid crystals M1	Miscellaneous 1 M2A	Algebra and representation theory M2B	Geometric group theory M2C	Fluids 1 Rm2.12	Waves 1 Rm2.14
14.00-14.20	**Andrew Davidson** *Two-frequency switching in a bistable azimuthal device*	**Sarah Davis** *Four dimensional crepant resolutions*	**Edwin Beggs** *Noncommutative sheaves and complex structures*	**Martin Fluch** *On the dimenson of classifying spaces for the family of virtually cyclic subgroups*	**Lubomir Banas** *Diffuse interface modeling of multiphase flow*	**Robert Bedard** *Modelling of gravity wave turbulence in the laboratory*
14.20-14.40		**Arsen Elkin** *The a-numbers of cyclic covers of the projective line*			**Evgeni Benilov** *The maximum height of a static liquid column pulled out of an infinite pool*	**Hanya Ben Hamdin** *Wave energy transport in multicomponent systems*
	Valery Slastikov *Spatial Onsager model for nematics*		**Vladimir Dotsenko** *Anick-type resolutions, shuffle algebras, and consecutive pattern avoidance*	**Mikhail Belolipetsky** *On volumes of arithmetic quotients of the hyperbolic n-space*		
14.40-15.00		**Peter Giblin** *Chords, midpoints and envelopes*			**Igor Chernyavsky** *Homogenization of advection-diffusion in an array of sinks: asymptotic analysis of transport regimes*	**Paul Brocklehurst** *Interaction of hydro-elastic waves with a vertical wall*
15.00-15.20	**Keith Daly** *A fast and accurate algorithm to determine liquid crystal alignment*	**Umar Hayat** *Resolution of quotients by SL(2,C) groups and their subgroups*		**Cornelius Reinfeldt** *Stable actions of limit groups on trees*	**Geoffrey Curtis** *Bubble dynamics near a two fluid interface*	**John Chapman** *The finite-product method in the theory of waves and stability*
15.20-15.40		**Christian Korff** *A combinatorial description of the WZNW fusion ring and quantum cohomolgy via integrable systems*			**Andrew Ellis** *Mathematical modelling of sand dune formation*	**Hartmut Erzgraber** *A bifurcation study of laser arrays*
	Apala Majumdar *Nematic Liquid Crystals - from Maier-Saupe to continuum theories*					
15.40-16.00		**Michael Heather** *New foundations for applied mathematics with category theory*				**David Abrahams** *Wave reflection and transmission at the boundary of a composite elastic material*
16.00-16.30	**Tea break**					
16.30-17.30	**Emmanuel Candes** *The power of convex relaxation: near-optimal matrix completion* **George Square Lecture Theatre**					

Wednesday 7th April

	Biological fluid dynamics 2 Lt1	Mathematics of string theory I Lt2	Dynamical systems Lt3	Morning speakers Lt4	Morning speakers Lt5	Solids Rm2.11
9.00-9.20	**Alexander White** *Mathematical modelling of the embolization process in the treatment of arteriovenous malformations*	**Sanjaye Ramgoolam** *Feynman diagrams in Matrix Models and the absolute Galois group of rationals*	**Dwight Barkley** *Spatiotemporal dynamics in turbulent-laminar transition*	**Roozbeh Hazrat** *Graded approach to the theory of division algebras*	**Michael Cowling** *Lattices in semisimple Lie groups*	**Yuxin Xie** *Stability of localized bulging/necking in inflated membrane tubes*
9.20-9.40	**Jennifer Siggers** *Methods to estimation of blood flow in curved arteries based on analytical solutions to flow in curved pipes*					**Philip Browne** *Structural optimization with buckling constraints*
9.40-10.00	**Adriana Setchi** *Flow through patent ductus arteriosus in two half cylinders with a hole between them*	**Jan Gutowski** *Classification of supersymmetric black holes*	**Mathieu Desroches** *Computing 2D manifolds in slow-fast systems: a boundary value approach with an application to reaction dynamics*			**Cameron Hall** *Discrete and continuum modelling of dislocation dipole arrays*
10.00-10.20	**Sevil Payvandi** *Mathematical modelling of flow in curved, compliant arteries*	**James Lucietti** *Black holes in higher dimensions*	**Jan Sieber** *Numerical continuation in lowly damped mechanical experiments*	**Dorothy Buck** *The topology of DNA-protein interactions*	**Frank Neumann** *Moduli stacks of vector bundles on algebraic curves and Frobenius morphisms*	**Dmitrii Maksimov** *Gaussian random waves in elastic medium*
10.20-10.40	**Zuhalia Ismail** *Mathematical model of aqueous humour flow through the Descemet's Membrane Detachment*					**Stephen Rickaby** *The Mullins effect including inelastic features*
10.40-11.00	**Ottavio Croze** *Dispersion of biased swimming microorganisms in a tubular flow*	**Amihay Hanany** *Counting Abelian Orbifolds*	**Ramon Grima** *Approximation of Chemical Master Equations by Effective Mesoscopic Rate Equations*			**Moniba Shams** *Plane waves in residually stressed incompressible hyperelastic materials*
11.00-11.30	**Coffee break**					
11.30-12.30	**Richard Kerswell** *A dynamical systems approach to transition to turbulence* **George Square Lecture Theatre**					

	Wednesday 7th April					
	M1	**Waves 2** **M2A**	**Stochastic partial differential equations** **M2B**	**Industry** **M2C**	**Fluids 2** **Rm2.12**	**Fluids 3** **Rm2.14**
9.00-9.20		**Tomas Johansson** *Inverse acoustic multiple scattering using topological derivatives*	**Michael Rökner** *Fokker Planck equations on Hilbert spaces*	**Matt Dawson** *Vibrational energy harvesting using a multi-degree-of-freedom device*	**Hannah Fry** *A small density ratios approach to modelling droplet deformation*	**Alexander Goater** *Modelling submarine turbidity currents*
9.20-9.40		**Stuart King** *Stable and unstable large amplitude internal solitary waves*	**Roger Tribe** *Pfaffian formulae for coalescing and annihilating Brownian motions*	**James Knowles** *Continuation of steady-states in mechanisms*	**Matthew Hamer** *Atorial approach to flow-induced nucleation in polymers*	**Jonathan Healey** *Unstable global modes in the rotating disc boundary layer*
9.40-10.00		**Jason Laurie** *One dimensional optical wave turbulence*		**Nneoma Ogbonna** *Numerical treatment of transient well pressure in oil and gas reservoirs using decoupled overlapping grids*	**Anthony Hill** *Nonlinear stability in superposed fluid and porous layers*	
10.00-10.20		**Hannah McGillivery** *Mathematical modelling of terahertz scattering*	**Beniamin Goldys** *Stochastic partial differential equations of micromagnetism*	**Rosie Robison** *Noise from fuel-efficient aeroplanes*	**Mat Hunt** *The influence of electrical fields on free surface flows generated by moving obstacles*	**Md Abdul Hye** *Large-eddy simulation of stenotic pulsatile flow*
10.20-10.40		**Cassandra Moran** *Embedding formulae for harbour problems*	**Carl Müller** *Nonuniqueness for some stochastic PDE*	**Phanikrishna Thota** *Bifurcation analysis of shimmy oscillations in an aircraft nose landing gear with a dual-wheel configuration*		**Christian Klettner** *High resolution computational study of free surface phenomena*
10.40-11.00		**David Parker** *The membrane equation, Laplace's equation, surface waves and interfacial waves*		**Christopher Bell** *Asymptotic estimation of kinetic and thermodynamic parameters of adsorbed electrochemical species using high frequency sinusoidal voltammetry*	**Nicolas Leprovost** *Stellar dynamo: no need for rotation*	**Adam Leslie** *Flow of a thin rivulet of fluid on a rotating cylinder*
11.00-11.30	**Coffee break**					
11.30-12.30	**Richard Kerswell** *A dynamical systems approach to transition to turbulence* **George Square Lecture Theatre**					

	Wednesday 7th April					
				Lt4	**Lt5**	
14.00-15.00				**Christopher Hacon** *Classification of algebraic varieties*	**Eric Vanden-Eijnden** *Theory and modeling of reactive events*	
	Spectral theory II **Lt1**	**Algebraic geometry II** **Lt2**	**Mathematics of string theory II** **Lt3**	**Mathematical neuroscience** **Lt4**	**Geophysical fluids** **Lt5**	**Number theory** **Rm2.11**
15.00-15.30	**Marco Marletta** *Stability of the finite data inverse spectral and inverse resonance problems*	**Tom Coates** *Gromov-Witten Invariants and Modular Forms*	**Carlos Nuñez** *Aspects of gauge-strings duality*	**Yulia Timofeeva** *An asymptotic comparison of two models of lipoprotein endocytosis*	**Michael McIntyre** *On ocean turbulence: generalizations of the Paparella-Young epsilon theorem*	**Lloyd Kilford** *Computing with modular forms for non-congruence subgroups*
15.30-16.00			**Christopher Hull** *Duality and Geometry*	**John Terry** *Derivation and analysis of an ordinary differential equation mean-field model for studying clinically recorded epilepsy dynamics*	**Maarten Ambaum** *Fluid dynamics for surface temperature fields*	**Damiano Testa** *Intersection of two cubics and a conjecture of Artin*
16.00-16.30	**Tea break and Posters**					
16.30-17.00	**Hillel Raz** *Minimal partitions of quantum graphs*	**Christopher Hacon** *Boundedness of varieties of log general type and applications*	**Paul Heslop** *Amplitudes and Wilson loops in maximally supersymmetric Yang-Mills*	**Jonathan Dawes** *Robust heteroclinic cycles: dynamics and bifurcations*	**Xavier Carton** *Transition to chaos in a two-vortex system under oscillatory strain and rotation*	**Rachel Newton** *Explicit local reciprocity for tame extensions*
17.00-17.30	**Anders Hansen** *The Complexity Index and computational spectral theory*		**Nick Dorey** *Integrability and gauge-string duality*	**Peter Grindrod** *On the spectra of Integro-Differential-Delay problems in neurodynamics*	**Gavin Esler** *Dispersive dam breaks and lock exchanges in a two-layer fluid*	

	Wednesday 7th April					
	Topology **M1**	**Semigroups, automata and formal languages** **M2A**	**Algebra and representation theory** **M2B**	**Geometric group theory** **M2C**	**Fluids 4** **Rm2.12**	**Mathematics of finance** **Rm2.14**
15.00-15.20	**Daniele Sepe** *Fake Lagrangian fibrations*	**John Fountain** *Reflection monoids*	**R James Shank** *Rings of invariants and varieties of representations*	**Saul Schleimer** *The graph of handlebodies*	**Jonathan Mestel** *The Dean-Hele-Shaw-Orr-Sommerfeld equations*	**Youssef El-Khatib** *Numerical solution of the P.D.E for option price in jump-diffusion models*
15.20-15.40					**Yazariah Mohd Yatim** *Travelling-wave similarity solutions for dry patch of Newtonian fluid*	**Sam Howison** *Games with exhaustible resources*
	Richard Steiner *Order-preserving chain maps between simplexes*	**James East** *Dual reflection monoids*	**Nick Gill** *Growth in groups*	**Andrew Duncan** *Automorphism groups of partially commutative groups*		
15.40-16.00					**Rahul Nilawar** *Rossby deformation radius effects on vortex propagation through gaps*	**Oliver Penrose** *Mathematical models, finance and the recession*
16.00-16.30	**Tea break and Posters**					
16.30-16.50		**Tara Brough** *Groups with poly-context-free word problem*		**Jim Howie** *Generalized triangle groups*	**Koji Okhitani** *Long-term oscillatory damping in SQG equations with hypo-viscosity*	**Sotirios Sabanis** *Applications of SDDEs in finance, comonotonicity and arithmetic Asian options*
16.50-17.10					**Chris Pringle** *Nonlinear transient growth*	
		Victoria Gould *Restriction categories and locally inductive constellations*				
17.10-17.30					**Michael Proctor** *Onset of convection with a melting boundary*	

Thursday 8th April

	Mathematical modelling of ecology and epidemiology Lt1	Numerical analysis, pdes and applications I Lt2	Mathematical medicine Lt3	Morning speaker and principal speaker Lt4	Morning speaker Lt5	Differential equations and asymptotics Rm2.11
9.00-9.20		**Euan Spence** *Coercivity of boundary integral operators in high frequency scattering*	**Dana Faratian** *Using systems biology select breast cancer patients for targeted therapy*	**Mark Haskins** *Gluing methods in differential geometry*	**Toby Stafford** *Noncommutative projective geometry*	**Stephen Baigent** *Curvature of the carrying simplex of totally competitive Lotka-Volterra systems*
9.20-9.40	**Caroline Colijn** *Modelling epidemic competition*	**Ivan Graham** *Robust solution of high-frequency acoustic wave scattering problems*	**Marcus Tindall** *An asymptotic comparison of two models of lipoprotein endocytosis*			**Bing Kwan So** *Pseudo-differential calculus defined by groupoids*
9.40-10.00	**Vasthi Alonso Chavez** *Logistic populations in a patchy environment*					**Jon Chapman** *Four bugs on a rectangle*
10.00-10.20	**Alan Terry** *Pulse vaccination strategies in a metapopulation SIR Model*	**Ping Lin** *Quasicontinuum method and its analysis for multiscale material simulations*	**Reuben O'Dea** *The mathematics of 3D tissue morphogenesis and regenerative medicine*	**Gigiola Staffilani** *On dispersive equations and their importance in mathematics*		**Michael Grinfeld** *The Wigner surmise in submonolayer deposition*
10.20-10.40	**Jennifer Reynolds** *Modelling density-dependent prophylaxis*	**Christoph Ortner** *Analysis of coupled atomistic/ continuum models for solids*	**Mark Muldoon** *On feedback oscillations in the NF-kappa B regulatory network*			**Christopher Howls** *Exponential asymptotics and boundary value problems: how to fix matched asymptotics and keep both sides happy?*
10.40-11.00	**Konstantin Blyuss** *Mathematical modelling of serotype interactions and their influence on the epidemiology of dengue*					**Vladimir Vasilyev** *Some problems of pseudodifferential operators' theory*
11.00-11.30	**Coffee break**					
11.30-12.30	**Paul Embrechts** *Did mathematics really blow up Wall Street?* **George Square Lecture Theatre**					

Thursday 8th April

	Mathematical biology 1 M1	Waves 3 M2A	Financial mathematics M2B	Scientific computation 1 M2C	Fluids 5 Rm2.12	Dynamical systems 1 Rm2.14
9.00-9.20	**Talieson Pearson** *Mathematical modelling of human metabolism and metabolic flexibility*	**Piotr Slowinski** *Semiconductor laser subject to optical feedback from two filtering elements*	**Aleksandar Mijatovic** *On the martingale property of certain local martingale*	**Greg Ainslie-Malik** *Input currents for pulse-width modulation inverters*	**Brenda Quinn** *Modulational instability, inverse cascades and formation of zonal flows in planetary and plasma flows*	**Nicholas Blackbeard** *Stability analysis of three linearly coupled laser oscillators*
9.20-9.40	**Jonathan Crofts** *Spectral methods and algorithms for detecting biomarkers in biological networks*	**Alexander Strohmaier** *Wave scattering on manifolds and geometric measure theory*	**Terence Chan** *Ruin probability asymptotics in the presence of investment of reserves*	**Alejandro Allendes** *Computable error bounds for a second order nonconforming finite element approximation of the Stokes problem*	**James Rankin** *Slow-fast dynamics in aircraft ground dynamics*	**Neil Bristow** *Supercritical, subcritical and alternating period-doubling cascades*
9.40-10.00	**Svetlana Amirova** *Uncovering the design principles of polyamine regulation: an integrated modelling and experimental study*	**Mahdhivan Syafwan** *Discrete solitons in electromechanical resonators*		**Fayeza Al Sulti** *A quantification of topological changes of vorticity contours in 2D Navier-Stokes flow*	**Andrey Rekalo** *Large time dynamics of the second grade fluid equations*	**Alan Champneys** *Why is it easy to pull chalk, but hard to push?*
10.00-10.20	**Anna Januszewska** *Photon Counting Histogram for receptors and receptor-ligand complexes: application and testing procedures*	**Dmitri Tseluiko** *Wave dynamics on turbulent gas–laminar liquid film flow*	**Anke Wiese** *Positive Simulation of the Heston Model*	**Gabriel Barrenchea** *A stabilized finite element method for the generalized Stokes problem on anisotropic meshes*	**Muhammed Sadiq** *Steady streaming due to the vibration of sphere*	**Carlota Cuesta** *Front propagation in a heterogeneous Fisher equation*
10.20-10.40	**Bjorn Stinner** *Surface finite elements for biological membranes with lateral phase separation*	**Paul Hammerton** *Solitary wave propagation in the presence of surfactants*	**Michael Monoyios** *Optimal investment with inside information and parameter uncertainty*	**Thomas Bennison** *A Discontinuous Galerkin method for neutron transport*	**Mario Sandoval** *Extension of the Prandtl-Batchelor theorem to three-dimensional flows slowly varying in one direction*	**Andrew Dean** *Exponential asymptotics and snaking bifurcations*
10.40-11.00	**Manosh Paul** *Spiral blood flow in stenosed artery*	**Michael White** *Directional emission from optical resonators*		**David Chappell** *Dynamical energy analysis for built-up acoustic systems at high frequencies*	**Cristina Sargent** *Trapped modes*	**Orestis Georgiou** *Sticky and non-sticky mushrooms*
11.00-11.30	**Coffee break**					
11.30-12.30	**Paul Embrechts** *Did mathematics really blow up Wall Street?* **George Square Lecture Theatre**					

	Thursday 8th April					
				Lt4	**Lt5**	
13.30-14.00					**ICMS, INI and KTN presentations**	
14.00-15.00				**Jeffery Lagarias** *Packings of space with congruent tetrahedra*	**Philip Maini** *Modelling aspects of tumour growth*	
	Lt1	**Algebraic geometry III** **Lt2**	**Mathematical biology 2** **Lt3**	**Mathematical biology 3** **Lt4**	**Lt5**	**Scientific computation 2** **Rm2.11**
15.00-15.20		**Burt Totaro** *Deforming divisors*	**Tamsin Lee** *Modelling avascular tumour growth using a moving mesh approach*	**John Mackenzie** *Modelling cell movement and chemotaxis using pseudopod-based feedback*		**Giacomo Mazzi** *Numerical methods for nuclear spin dynamics*
15.20-15.40			**Philip Murray** *From discrete to continuum models of intestinal crypts*	**Clare Lee** *Network reordering in the life sciences*		**Jan Van lent** *Numerical methods for optimal transport*
15.40-16.00			**Jakub Nowacki** *Slow-fast analysis of a multi-dimensional pyramidal neuron model*	**Jochen Voss** *Probability distributions on the torus with applications to bioinformatics*		**Ashley Twigger** *A boundary element method for high-frequency scattering by non-convex polygons*
16.00-16.30	**Tea break**					
16.30-17.30	**L. Mahadevan** *Aspects of growth and form: mathematics, mechanics, morphogenesis* **George Square Lecture Theatre**					

	Thursday 8th April					
				Lt4	**Lt5**	
13.30-14.00					**ICMS, INI and KTN presentations**	
14.00-15.00				**Jeffery Lagarias** *Packings of space with congruent tetrahedra*	**Philip Maini** *Modelling aspects of tumour growth*	
	History of mathematics II **M1**	**Semigroups, automata and formal languages** **M2A**	**Fluids 6** **M2B**	**Fluids 7** **M2C**	**Scientific computation 2a** **Rm2.12**	**Rm2.14**
15.00-15.20	**Marit Hartveit** *Mathematics as of 1900: a teacher's perspective*	**David Jones** *Strong representations of the polycyclic monoids: cycles and atoms*	**Andrew Stewart** *The role of the complete Coriolis force in cross-equatorial transport of the Antarctic Bottom Water*	**Nikola Stoilov** *Classification of two-component Hamiltonian systems of hydrodynamic type in 2+1 dimensions*	**Bubacarr Bah** *Improved RIC bounds for Gaussian matrices, with applications in compressed sensing*	
15.20-15.40			**Florencia Tettamanti** *Extended Stokes series solution for flow through toroidal pipes of small curvature*	**Philip Trevelyan** *Chemically induced viscous fingering: a linear stability analysis*	**Rachael Tappenden** *Sparse signal reconstruction using a BCQP*	
15.40-16.00	**Alex Craik** *William Wallace (1768-1843) at Perth, Marlow and Edinburgh: some unknown letters*	**Mark Lawson** *Non-commutative Stone duality*	**Jean-Marc Vanden-Broeck** *Steady and unsteady models for nonlinear free surface flows*	**Prashant Valluri** *Regimes in displacement flows between Newtonian fluids at moderate Reynolds numbers in rectangular channels*	**Andrew Thompson** *Support sizes of restricted isometry constants*	
16.00-16.30	**Tea break**					
16.30-17.30	**L. Mahadevan** *Aspects of growth and form: mathematics, mechanics, morphogenesis* **George Square Lecture Theatre**					

Friday 9th April

	Mathematics of information Lt1	Numerical analysis, pdes and applications II Lt2	Mathematical ecology and evolution Lt3	Morning speakers Lt4	Morning speakers Lt5	Scientific computation 3 Rm2.11
9.00-9.20	**Joel Tropp** *Finding structure with randomness: Stochastic algorithms for constructing low-rank matrix decompositions*	**Ke Chen** *On high order denoising models and fast algorithms for vector-valued images*	**Roger Bowers** *Evolutionary behaviour, trade-offs and cyclic and chaotic population dynamics*	**Gwyneth Stallard** *The structure of the escaping set in complex dynamics*	**Richard Pinch** *Primes and pseudoprimes*	**Penny Davies** *Numerical solution of first kind Volterra integral equations*
9.20-9.40						**Sergey Mikhailov** *On traces and co-normal derivatives of elliptic systems with smooth and non-smooth coefficients on Lipschitz domains*
9.40-10.00	**John Wright** *Robust principal component analysis?*	**Mark Walkley** *An O(N) DEVSS finite element scheme for viscoelastic flow simulations*	**Christina Cobbold** *A quantitative genetics approach to model the evolution of insect development*			**Pras Pathmanathan** *Cardiac electromechanics: The effect of contraction model on mathematical problem and numerical schemes*
10.00-10.20	**Mauro Maggioni** *Intrinsic dimensionality estimation and multiscale geometry of data sets*	**Milan Mihajlovic** *Efficient algorithm for the solution of thermally-buoyed flow problems*	**Steven Webb** *The role of spatial population structure to the evolution of parasites when there is acquired immunity: the evolution of recovery, transmission rate and virulence*	**Armando Martino** *Isometries of Culler-Vogtmann space*	**Diane Maclagan** *Tropical geometry*	
10.20-10.40						
10.40-11.00	**Anders Hansen** *Compressed sensing in infinite dimensions*	**Peter Jimack** *An adaptive, multilevel scheme for the implicit solution of two- and three-dimensional phase-field equations*	**Ivana Gudelj** *Understanding the limits to generalizability of experimental evolutionary models*			
11.00-11.30	**Coffee break**					
11.30-12.30	**Maciej Zworski** *Mathematics of quantum resonances* **George Square Lecture Theatre**					

	Friday 9th April					
	Dynamical systems 2 **M1**	**Mathematical biology 4** **M2A**	**Mathematical modelling of developmental biology** **M2B**	**Miscellaneous 2** **M2C**	**Fluids 8** **Rm2.12**	**Stochastic systems** **Rm2.14**
9.00-9.20	**Mark Holland** *Extremal properties of dynamical systems*	**Irina Biktashiva** *Quantitative dynamics of spiral waves in active media*		**Anthony Kay** *An optimal run across Holyrood Park*	**Sergiy Vasylkevych** *A family of shallow water models in semigeostrophic scaling*	**Chris Joyner** *Spectral statistics for chaotic systems with discrete symmetries*
9.20-9.40	**Rebecca Hoyle** *Equation-free bifurcation analysis of a stochastic kinetic model of a two-component signaling system*	**Dumitru Trucu** *Perfusion coefficient reconstruction in bio-heat transient flow*	**Daniele Muraro** *Cell fate determination in Arabidopsis Thaliana lateral root development. Differentiation-division balance by cytokinin-auxin hormones cross-regulation*	**Sohail Iqbal** *A construction of minimal surfaces of general type with p_g=3,2 =< K^2 =<7*	**Stephen Wilson** *Dynamics of a two-dimensional vapour bubble confined between superheated or subcooled parallel plates*	**Denis Lapitski** *Quantum lattice Boltzmann simulation of the Klein paradox*
9.40-10.00	**Anwar Hussein** *Adaptive symplectic integrators for Hill's problem*	**Almut Eisentraeger** *A poroelastic model of the infusion test in hydrocephalus*	**Jenny Bloomfield** *How does cellular contact affect differentiation mediated pattern formation?*	**Imran Qureshi** *Some new families of Calabi-Yau 3-folds in weighted flag varieties*	**Alan Walker** *Layer undulations in planar layered smectic C liquid crystals*	**Tim Reis** *A stochastic sharpening approach for the pinning and facetting of sharp phase boundaries in multiphase lattice Boltzmann simulations*
10.00-10.20	**Mike Jeffrey** *Hunting ducks and nondeterminism in non-smooth dynamics*	**Lindsey MacDougall** *Mathematical modelling of rod photoreceptor metabolism*	**Mainul Haque** *Dynamics of the mathematical models on the heat-shock proteins (HSPs) regulated gene network in Drosophila melanogaster and Caenorhabditis elegans*	**Nigel Scott** *Bivectors and jay-vectors: ellipsoids and hyperboloids*	**Ashley Willis** *On the role of transient growth in turbulent pipe flow*	**Martin Riedler** *Models of excitable membranes by Stochastic Hybrid Systems*
10.20-10.40	**Wan Chen** *Dynamics and instabilities of localized spot patterns in Gray-Scott model*	**Qi Qi** *Mathematical modelling of telomere shortening and the aging process*	**Laura Brown** *Mathematical models of the gene regulatory network underlying mesendoderm formation in amphibians*	**Lennon O'Naraigh** *On the dynamics of rupture in Cahn-Hilliard thin films*	**Vipin Michael** *Effects of porous walls on first mode instability of hypersonic boundary layers over a sharp cone*	**Rafael Serrano** *Optimal control of semilinear stochastic evolution equations in Banach spaces*
10.40-11.00		**Greg Lemon** *Tissue ingress into a rapid-prototyped model pore system: experiments and mathematical model*	**Alex Walter** *Numerical methods for a coupled multiphysics problem arising in heart modelling*	**Andrew Foulkes** *Alternative stable scroll waves and conversion of autowave turbulence*	**Matthew Turner** *Stability analysis and break-up length calculations for planar liquid jets*	**Antoine Tambue** *A modified stochastic implicit Euler's Scheme*
11.00-11.30	**Coffee break**					
11.30-12.30	**Maciej Zworski** *Mathematics of quantum resonances* **George Square Lecture Theatre**					