Nonlinear Diffusion: Algorithms, Analysis and Applications PROGRAMME

Monday	6 th	June	2011
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09.30 - 10.15	G Dziuk (Frieburg)	Time discretizations for ESFEM
10.15 – 11.00	S Larsson (Chalmers)	Finite element approximation of the Cahn-Hilliard-Cook equation
11.00 – 11.30	Tea/coffee in the Mathematics Inst	titute Common Room
11.30 – 12.15	R Kornhuber (Berlin)	Time discretizations of anisotropic Allen-Cahn equations
12.15 – 13.00	B Niethammer (Oxford)	Self-similar solutions for a kinetic model for grain growth
13.00 - 14.00	Lunch in the Mathematics Institute	Common Room
14.00 – 14.45	K Deckelnick (Magdeburg)	Identification of matrix parameters in elliptic PDEs
14.45 – 15.30	J Rodrigues (Lisbon)	Remarks on the variational inequality approach to constrained Cahn-Hilliard type systems
15.30 – 16.00	Tea/coffee in the Mathematics Inst	
16.00 – 16.45	J Blowey (Durham)	Analysis of a Nonlinear Parabolic Cross Diffusion Population Model
16.45 - 17.30	A Bertozzi (California)	Diffuse Interface Methods in Image Processing and Data Analysis
17.30	Drinks & Snacks in the Mathematic	cs Institute Common Room

Tuesday 7th June 2011

09.30 - 10.15	Y Giga (Tokyo)	Hamilton-Jacobi equations with discontinuous source terms
10.15 – 11.00	M Hinze (Hamburg)	A residual-based a posteriori approach to simulation and control
		of the Cahn-Hilliard Navier Stokes system
11.00 – 11.30	Tea/coffee in the Mathematics Inst	itute Common Room
11.30 – 12.15	J Ockendon (Oxford)	The Perennial Problem of Alloy Solidification
12.15 – 13.00	A Novick-Cohen (Technion)	Upper bounds for coarsening for various Cahn-Hilliard type
		equations
13.00 - 14.00	Lunch in the Mathematics Institute	Common Room
14.00 – 14.45	D French (Cincinnati)	Numerical Approximation of Solutions to Nonlinear Inverse
		Problems Arising in Olfaction Experimentation
14.45 – 15.30	D Kay (Oxford)	Numerical methods for fractional diffusion
15.30 – 16.00	Tea/coffee in the Mathematics Inst	itute Common Room
16.00 – 16.45	B Stinner (Warwick)	On a surface finite element method for biomembranes with
		phase separation
16.45 - 17.30	J Sprekels (Berlin)	Technological and mathematical problems in the industrial
		growth of semiconductor bulk single crystals
19.00	Conference Dinner at Loch Fyne R	Restaurant Kenilworth

Wednesday 8th June 2011

09.30 - 10.15	M Turner (Warwick)	Diffusion and patterning on living membranes
10.15 – 11.00	S Luckhaus (Leipzig)	Blow up in chemotaxis and beyond
11.00 – 11.30	Tea/coffee in the Mathematics Inst	titute Common Room
11.30 – 12.15	M Ainsworth (Strathclyde)	Rigorous numerical enclosures on the limit load in the Analysis of multibody structures
12.15 – 13.00	G Richardson (Southampton)	The Reversing of Interfaces in Slow Diffusion Processes with Strong Absorption
13.00 - 14.00	Lunch in the Mathematics Institute	Common Room
14.00 – 14.45	H Garcke (Regensburg)	On a thermodynamically consistent Cahn-Hilliard/Navier- Stokes model for incompressible two-phase flows with different densities
14.45 – 15.30	J Barrett (Imperial)	Parametric Approximation of Elastic Flow for Curves and Curve Networks
15.30 – 16.00	Tea/coffee in the Mathematics Inst	titute Common Room