

ITN FIRST Mid-Term Meeting. ESR Programme of Talks

All presentations will be in the **Wolfson Lecture Theatre, Room 4W 1.7, University of Bath, UK**

Tuesday 13th December

Time	Name	Institution	Title
9.50	Budd	Bath	Welcome and introduction
10.00	Alikakos	Athens	Elliptic systems with bistable nonlinearity in cylindrical domains
10.30	Shiavi	Rey Juan Carlos (Madrid)	A variational approach to medical image processing
11.00	Caselles	Pompeu-Fabra (Barcelona)	On the regularity of solutions of the total variation denoising problem
11.30	Coffee	Coffee	Coffee
12.00	Van Schaftingen	Louvain	Non existence of positive super solutions for semilinear elliptic problems with a nonlocal nonlinearity
12.30	Piccolo	Met Office (UK)	Data Assimilation for PDE problems
13.00	TBA		TTBA

13.30 Lunch

Mid-Term Report Review of FIRST:

14.30-15.00 Presentation by the Coordinator, Prof. J. I. Diaz;

15.00-15.50 *Tour de Table* by Representatives of the Universidad Complutense de Madrid, Friedrich-Alexander-Universität Erlangen-Nürnberg, Université de Paris-Sud XI, Sapienza Università di Roma, Technische Universiteit Eindhoven, Technion - Israel Institute of Technology, University of Bath, University of Zurich, Guigues Environnement and Siemens AG.

15.50 Coffee

Presentations by ESRs

Time	Name	Work Package	Title
16.00	Mojsic	WPA1	TTBA
16.10	Martinez	WPA2	Geodesic voting, Wardrop equilibria and digital shapes
16.20	Ghosh	WPA3	Energy minimising curves on the space of 3D positions and directions
16.30	Bui	WPA4	Fourth order regularisation of the Perona-Malik equation
16.40	Vo	WPB1	Generalised propagation of travelling fronts in heterogeneous reaction diffusion equations
16.50	Kriazopoulos	WPB2	On an elliptic system related to desertification studies
17.00	Kocak	WPB3	TTBA
17.10	Savitska	WPB4	On the asymptotic behaviour of some nonlocal boundary value problems with p-Laplace operators in the case of a single equilibrium
17.20	Wang	WPB5	A Hardy type inequality

18.00 Reception

19.00 Dinner in Wessex House Restaurant, University of Bath

Wednesday 14th December

Presentations by ESRs

Time	Name	Work Package	Title
9.00	Vu Do	WPB6	TTBA
9.10	Duong	WPB7	A new view on the Kramers equation
9.20	Krehel	WPC1	Transport in porous media with flocculation. A pore scale model
9.30	Campillo	WPC2	A phase field model for electro wetting with electrolytes: case of mass density contrast
9.40	Chakhoukh	WPC3	Patterns in folded rock
9.50	Fabregas	WPC4	A mathematical model for dental caries
10.00	Khajeh	WPC5	Simulation of elastoplastic deformation of steel
10.10	Mingazzini	WPC6	On an optimal control problem involving the location of a free boundary
10.20	Tamasoiu	WPC7	Boundary control and inverse problems for waves on networks

10.30 Coffee

10.45 Meeting between ESRs and EU Officers (in 4W 1.7)

10.45 Meeting of the Governing Board of the FIRST ITN (in 4W Meeting Room)

10.45 Meeting of the External Experts Board of the FIRST ITN (in 4W 1.8)

11.45 Discussion meeting for all participants and EU Officers (in 4W 1.7)

12.30 Lunch

Time	Name	Institution	Title
13.30	Zimmer	Bath	TTBA
14.00	Fischer	Erlangen	Estimates on interface propagation for degenerate chemotaxis and semiconductor models
14.30	Muntean	Eindhoven	Crowd dynamics
15.00	Coffee	Coffee	Coffee
15.30	Gruen	Erlangen	On thermodynamically consistent schemes for two-phase flow with mass density contrast and species transport
16.00	Rubenstein	Technion (Haifa)	A modern view of classical optics
16.30	King	Nottingham	Wave speed selection in non-homogeneous reaction diffusion
17.00	TBA		TTBA

19.00 Dinner in Wessex House Restaurant (University of Bath)

Thursday 15th December

Time	Name	Institution	Title
9.00	Evans/Galaktionov	Bath	TTBA
9.30	Chipot	Zurich	Problems in unbounded domains
10.00	Cohen	Paris	Geodesic voting for image analysis
10.30	Coffee	Coffee	Coffee
11.00	Fontelos	CSIC (Madrid)	Mathematical models in electro-wetting
11.30	Tesei	Rome	Measure-values solutions of quasilinear parabolic equations
12.00	Ramos	Madrid	Modelling, simulation and optimisation of a polluted water process
12.30	TBA		TTBA

13.00 Lunch

Delegates depart.