



## Applied Mathematics Seminars

### Spring Term 2012

**Monday 30th January, 2:00pm** Prof. Martin Howard, John Innes Centre, Norwich

*Dissecting quantitative epigenetic silencing  
through mathematical modelling and experiments*

(SYSTEMS BIOLOGY SEMINAR)

**Monday 6th February, 2:00pm** Dr. Ken G. McClements, Culham Science Centre

*Electromagnetic turbulence simulations of plasma in the MAST spherical tokamak*

**Monday 13th February, 2:00pm** Dr. Andrés Chavarría Krauser,  
University of Heidelberg

*Modelling growth and transport processes in plants*

**Monday 27th February, 2:00pm** Dr. Mariya Ptashnyk, University of Dundee

*Can we homogenise a plant root system ?*

**Monday 5th March, 2:00pm** Prof. Sergei Molokov, University of Coventry

*Interfacial magnetohydrodynamic instabilities in aluminium reduction cells:  
theory and experiment*

**Monday 12th March, 2:00pm** Prof. David Abrahams, University of Manchester

*Effective material properties of complex composite materials with application to wave propagation*

**Monday 26th March, 2:00pm** Prof. Ben Simons, University of Cambridge

*Strategies of stem cell fate in adult tissues*

(SYSTEMS BIOLOGY SEMINAR)

Unless otherwise indicated, seminars will be held in room 1.43L in the Maths building next to the MSI complex at the top of Old Hawkhill. All interested are welcome to attend. Tea will be available at 3:00pm in the Staff Common Room. External visitors are advised to confirm arrangements with the Secretary, Mrs. Fox: Tel. (01382) 384471.

Raluca Eftimie & Mariya Ptashnyk  
January 2012



## Applied Mathematics Seminars

### Summer Term 2012

**Monday 23rd April, 2:00pm** Prof. Vitaly Volpert, University of Lyon 1

*Reaction-diffusion waves: classical theory and recent development.*

**Monday 30th April, 2:00pm** Prof. Hans Meinhardt, Max Planck Institute  
for Developmental Biology, Tübingen, Germany

*Models of biological pattern formation:  
from elementary steps to the generation of the primary body axes*

(SYSTEMS BIOLOGY SEMINAR)

**Monday 7th May, 2:00pm** Prof. Timothy Newman, University of Dundee

*The role of stochasticity in biology*

**Monday 14th May, 2:00pm** Dr. Christoph Ortner

*Construction and (in-)Consistency of Atomistic-to-Continuum Coupling Methods*

**Monday 21st May, 2:00pm** Dr. Stephen Gourley, University of Surrey

*Insecticide resistance and its implications for mosquito and malaria control*

**Monday 28th May, 2:00pm** Prof. Béla Novák, University of Oxford

*Systems-level feedbacks in cell cycle controls*

(SYSTEMS BIOLOGY SEMINAR)

**Monday 4th June, 2:00pm** Dr. Raluca Eftimie, University of Dundee

*Biological and mathematical mechanisms behind pattern formation  
in self-organized social aggregations*

**Monday 11th June, 2:00pm** Dr. Elaine Crooks, University of Swansea

*Front-like entire solutions for equations with convection*

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Raluca Eftimie & Mariya Ptashnyk  
April 2012