

NANIA Research Meeting on Complexity
Old Infirmary Room 2.13, Drummond St, University of Edinburgh, September 12th
(With apologies to Douglas N Adams)

- 9.15 Arrival
9.30 *Welcome & NANIA overview*
Graeme Ackland* (Edinburgh)

"Life" (Chair - Christl Donnelly)

- 10.00 *Testing ecological theory by experiment on and simulation of microbial microcosms*
Andrew Free (Edinburgh), with AJ McNeil, OL Mozley and RJ Allen
10.25 *Evolving genetic circuit design for synthetic biology*
Jennifer Hallinan (Newcastle), with A Wipat
10.50 Coffee
11.30 *Species range, adaptation in space and time*
Jitka Polechova* (Edinburgh), with NH Barton, G Marion
11.55 *Statistical mechanics of convergent evolution in a simple model of spatial patterning*
Bhavin Khatri (Surrey), with TCB McLeish, RP Sear
12.20 *Follow the yellow-brick road: Self-organized path formation creates heterogeneity in population movement and distribution*
Francois Feugier (Newcastle), with G Sarson, A Shukurov, P Dolukhanov
12.45 Lunch (provided)

"Universe" (Chair - Lenny Smith)

- 13.55 *Statistical forecasting of complex systems: From house hunting to oil reservoir modelling*
Ian Main* (Edinburgh), with J Greenhough, K Heffer and X Zhang
14.20 *Underpinning Webworld: Building the stochastic analogue of a deterministic model*
Craig Powell* (Manchester), with R Boland
14.45 *Complex structures in photonics and chemistry*
Gian-Luca Oppo (Strathclyde)
15.10 Tea

"Everything" (Chair - Neil Johnson)

- 15.50 *Tags, trust and experience: Simple mechanisms for complex behaviour*
Emma Norling (MMU *)
15.15 *Modelling healthcare use as a complex system*
Chris Burton (Edinburgh), with T Love
16.40 *Achieving consensus among (somewhat) intelligent agents*
Bruce Edmonds (MMU *)
17.05 Close - Discussions to continue in an Edinburgh food & drink establishment

* denotes speakers affiliated with the NANIA Research Collaboration