2009/10 EPSRC Symposium on the Mathematics of Complexity Science and Systems Biology

Workshop on
Ecology, Epidemiology and Evolution:
Biological Processes and Artificial Analogues (EEE)
14-16 September 2010

Organisers: Matt Keeling and Leon Danon (Warwick)

All talks will be in Lecture Room **B3.03** in the Mathematics Institute, University of Warwick

PROGRAMME

Tuesday 14th September:

09:00 - 10:00		Registration and Welcome; Tea & Coffee in the Mathematics Common Room
10:00 - 11:00	**Matt Keeling** (Warwick)	*Welcome and Introduction*
11:00 - 11:30		Tea & Coffee in the Mathematics Common Room
11:30 - 12:30	**Chris Cannings** (Sheffield)	*Reproducing Graphs*
12:30 - 14:00		Lunch in the Mathematics Common Room
14:00 - 15:00	**Mario Recker** (Oxford)	*Antigenic Variation in Malaria Involves a Highly Structured Switching Pattern*
15:00 - 15:30		Tea & Coffee in the Mathematics Common Room
15:30 - 15:50	**Ben Ashby** (Warwick)	*Modelling the Effects of Short-term Immune Responses on Competing Influenza Strains*
15:50 - 16:10	**Sam Brand** (Warwick)	*TBA*
16:10 - 16:30	**Ashley Ford** (Warwick)	*TBA*
16:30 - 17:00	**Anton Camacho** (ENS)	*Rapid Influenza Reinfection: Likely Mechanisms and Potential Impacts During a Pandemic*
17:00 - 18:15		Drinks and Reception in the Mathematics Common Room
19:00		Dinner at Radcliffe House

Wednesday 15th September:

09:30 - 10:30	**Mike Tildesley** (Edinburgh)	*Mathematical Modelling of Livestock Diseases: From Within-host to the National Scale*
10:30 - 11:00		Tea & Coffee in the Mathematics Common Room
11:00 - 12:00	**Jonathan Read** (Liverpool)	*Quantifying and Modelling Behaviour in Epidemiological Models*
12:00 - 14:00		Lunch in the Mathematics Common Room
14:00 - 15:00	**Jane Heffernan** (York, Canada)	*Pre-existing Immunity: Case studies in H1N1 and Genital Herpes*
15:00 - 15:45		Tea & Coffee in the Mathematics Common Room
15:45 - 16:45	**Steve Krone** (Idaho, USA)	*Spatial Structure and Adaptive Evolution of Viruses*
16:45 - 18:00		Drinks and Reception in the Mathematics Common Room
20:30		Dinner at Milsoms in Kenilworth

Thursday 16th September:

09:30 - 10:30	**Stephen Cornell** (Leeds)	*Space, Coexistence, and Invasibility*
10:30 - 11:00		Tea & Coffee in the Mathematics Common Room
11:00 - 12:00	**Sebasian Funk** (Institute of Zoology, London)	*News Travels Fast: Modelling the Dynamics of Infectious Diseases and Human Behaviour*
12:00 - 14:00		Lunch in the Mathematics Common Room
14:00 - 15:00	**Rachel Norman** (Stirling)	*Manipulating Wild Host Populations to Control Disease*
15:00 - 15:30		Tea & Coffee in the Mathematics Common Room
15:30 - 16:30	**Alla Mashanova** (Royal Holloway)	*Measuring and Modelling Dispersal Behaviour at Individual and Population Level*
16:30		**END**