## **Complexity Workshop**

## Friday, September 16th, 2005

## Hamilton Institute, National University of Ireland Maynooth

**Venue: Lecture Theatre 2, Hume Building, NUIM** 

09.30	Coffee
10.00	Financial Mathematics with Stable Fluctuations.
	Przemyslaw Repetowicz, Trinity College Dublin
10.40	Information Rate Requirements for Feedback Stabilization.
	Richard Middleton, University of Newcastle, Australia
11.00	Dynamics Phases and Criticality in the Burridge-Knopoff Model of an Earthquake Fault.
	Ian Clancy and David Corcoran, University of Limerick
11.20	Coffee
11.40	Measuring Software Complexity.
	Michel Schellekens, University College Cork
12.20	Computational Complexity, Satisfiability and Verification.
	David Sinclair, Dublin City University
12.40	To be announced.
	Damien Woods, University College Cork
13.00	Lunch
14.30	Policy Analysis: Implications of the New Sciences of Complexity & Governance.
	Linda F. Dennard, University College Cork
15.10	Using System Dynamics Modelling and Policy Simulation to Find Solutions to Envir onmental Problems Through Increased Understanding of Complex Dynamic Systems
	Bernadette O'Reagan and Richard Moles, University of Limerick
15.30	Mathematical Modelling of Randomness
	Renata Retkute, University College Cork
15.50	Coffee
16.10	A System-of-Systems Approach to Formalising Complex Systems.
	Gregory Provan, University College Cork

16.30	Internet Congestion Control.
	Fabian Wirth, NUI Maynooth
16.50	On the Identification & Control of Underwater Vehicle Dynamics: A Neural Network Approach.
	P.W.J. van de Ven, M.J. Hayes, C. Flanagan & D. Toal, University of Limerick
17.10	Analysis of Robust Performance in Interconnected Systems Using the Structured Singular Value.
	Martin Hayes and Mark K. Halton, University of Limerick
17.30	Discussion – how we should proceed with this initiative All participants
18.10	End