



Dear Friends,

Counterintuitively, the difficulty of interacting with a field different from one's own most likely increases in proportion to the relevance of that field. Those fields that have explored similar ideas and concepts, but arrived at different language, different methods and models, and different conclusions and orthodoxies, are the most important to explore, precisely because doing so forces us to reevaluate our own views, and our own work.

If Eco² succeeds, then, we hope that you will go away not only with a greatly expanded view of your sister discipline, but also feeling less comfortable with work that fits squarely within the traditions of your own. We hope that one day you will look back and realise that Eco² helped you to begin to explore the space where ecology and economics collide.


At present we have only the dimmest outline of that space. It would be nothing but blackness, had not a small number of pioneers shed light in a few corners, and luckily for us a truly surprising number of those pioneers are here!

To help them to help us to explore even more, we have adopted a notably interactive format for Eco². All that is necessary for these formats to work is that all of us adopt an open mind, try to talk as honestly and freely with as many people as possible, actively seek conversations that take us in new directions, asking any questions that come into our mind, and not be put off by any initial difficulties in understanding.

We have every confidence that you will throw yourself into Eco² in exactly this way.

After all, you are here.

JP, Katja, Matthew and Drew



To submit questions to any session during the conference please e-mail us at ecosquared2014@gmail.com or tweet us at [@e2c2o2](https://twitter.com/e2c2o2), using #EcoLSE.

Monday 8 September

Day One

12.00 – 13.00 **REGISTRATION AND LUNCH**
Tower 2, Rooms 9.04 and 9.05

15.45 – 16.30 **COFFEE BREAK**

13.00 – 13.05 **WELCOME**
Drew Purves and
Jean-Pierre Zigrand

16.30 – 17.45 **PROBLEM SOLVING SESSIONS**

13.05 – 14.15 **PLENARY 1**
Fundamentals of ecology and economics
Tower 1, Room G.01

Mike Begon, Professor of Ecology at Liverpool University, lead author of the standard ecology undergraduate textbook 'Begon, Harper & Townsend'. Professor Begon will be giving a talk entitled "The Fundamentals of Ecology".

Moderated by George Sugihara, McQuown Chair in Natural Science at the Scripps Institution of Oceanography, Theoretical Biologist, former advisor to the Bank of England, The Federal Reserve, and a former managing director of Deutsche Bank.

Partha Dasgupta, Professor Emeritus of Economics at the University of Cambridge and author of 'A Very Short Introduction to Economics'.

Problem set 1
Tower 2, Room 9.05

Claire Wansbury (BES): How can we value the priceless?

Holly McCain (University of Nottingham): How can businesses be encouraged to account for and manage their ecological externalities?

Timothy Johnson (Heriot-Watt University): Possessive individualism or social cohesion: which is a better basis for financial networks?

Adam Formica (University of Oxford): How do global environmental change and fluctuating markets influence conservation planning?

Session moderated by Thomas Lux (Christian-Albrechts-University).

Problem set 2
Tower 2, Room 9.04

William Burnside (University of Maryland): A functional ecology of economic diversity?

Ayse Demir (University of Leicester): Disentangling size and efficiency effects of finance: new evidence from transition.

Claudia Capitani (University of York): What are pros and cons of participatory methods in developing socio-economic scenarios?

Sadia E. Ahmed (Microsoft Research): Land use trade-offs in the Amazon.

Session moderated by Drew Purves (Microsoft Research).

14.30 – 15.45 **PANEL SESSIONS**

1 Behaviour
Tower 1, Room G.01

Luca Borger (Swansea University): Stationarity and diffusivity in animal movements and spatial population dynamics.

Klarizze Puzon (Fondazione Eni Enrico Mattei (FEEM), and University of Montpellier): Why my participation matters: rent seeking with endogenous price determination.

Tarik Roukny (Université Libre de Bruxelles): On generalists and specialists.

Drew Purves (Microsoft Research): Co-existence of multiple strategies in ecosystems.

Session moderated by Nicholas Watkins (Max Planck Institute).

2 Evolution
Tower 2, Room 9.05

Thorsten Hens (University of Zurich): On evolutionary finance with emphasis on market selection and asset pricing.

Siddhartha Sanghi (University of Zurich): Evolutionary principles applied to stock market strategies: backtesting and simulations.

Timothy J. Foxon (University of Leeds): Co-evolution in socio-economic systems.

Steven Cousins (Bradford University): The Ecosystem pre-dates the economic system: when and how did the economic system arise.

Session moderated by Gian Marco Palamara (University of Zurich).

18.00 – 19.00 **KEYNOTE SPEECH**
Old Building, Senior Common Room

Keynote by Lord Robert May, Professor at Oxford University and Imperial College London, ex-President of the Royal Society and ex-UK Chief Scientific Advisor to the UK Government, on "Stability and complexity in financial ecosystems".

The chair of this session will be Jean-Pierre Zigrand (SRC, LSE).

19.00 – 20.00 **RECEPTION**
Old Building, Senior Common Room

Tuesday 9 September

Day Two

9.30 – 10.00 **REGISTRATION**
Tower 1, main lobby

10.00 – 11.00 **PLENARY 2**
Important models in economics and ecology
Tower 1, Room G.01

Thomas Lux, Chair of Monetary Economics and International Finance at Christian-Albrechts-University in Kiel.

Michel Loreau, Director of the Centre for Biodiversity Theory and Modelling at CNRS, France. Michel will be giving a talk entitled “Can ecology and economics marry? A theoretical ecologist’s standpoint”.

Moderated by **Lindsay Turnbull**, Associate Professor in the Department of Plant Sciences at the University of Oxford.

12.30 – 13.30 **LUNCH**
Tower 2, Room 9.04

13.30 – 14.30 **PLENARY 3**
Application of ecological and economic ideas
Tower 1, Room G.01

Kathy Willis, Director of the Biodiversity Institute (BIO) at the Department of Zoology at the University of Oxford and is also on secondment as Director of Science at Kew Gardens.

Thorsten Hens, Director of the Department of Banking and Finance and Professor of Financial Economics at the University of Zurich.

Moderated by **Alan Kirman**, professor emeritus of Economics at the University of Aix-Marseille III and author and editor of twelve books, most recently ‘Complex Economics: Individual and Collective Rationality’.

11.15 – 12.30 **PANEL SESSIONS**

3 **Tipping points**
Venue: Tower 1, Room G.01

Tom Oliver (NERC Centre for Ecology and Hydrology): Are practical indicators of system resilience feasible?

Tim Newbold (UNEP World Conservation Monitoring Centre): Early warning signals of tipping points in a general ecosystem model.

Polina Kovaleva (City University London): The Impact of reduced pre-trade transparency regimes on market quality.

Tomaso Aste (UCL and Systemic Risk Centre): Onset of systemic fragility due to counterparty risk in a stylized banking system.

Session moderated by **Carole Dalin** (Grantham Institute, LSE).

4 **Ecology economics interface**
Tower 2, Room 9.05

Alessandro Tavoni (Grantham Institute, LSE): Managing the climate commons at the ecology-behaviour-economics nexus.

Andrew Dorward (SOAS, University of London): Livelihoods – integrating insights from livelihoods ecosystems analysis.

Adam Kleczkowski (University of Stirling): What is the value of resilience? A study in bioeconomics of trees.

Hailun Li (University of Reading): Residents of Beijing more concerned about the environment than economic growth.

Session moderated by **Dirk-Jan van de Ven** (Grantham Institute, LSE)

14.30 – 16.00 **GENERAL DISCUSSION SESSION AND COFFEE BREAK**
Tower 2, Room 9.04

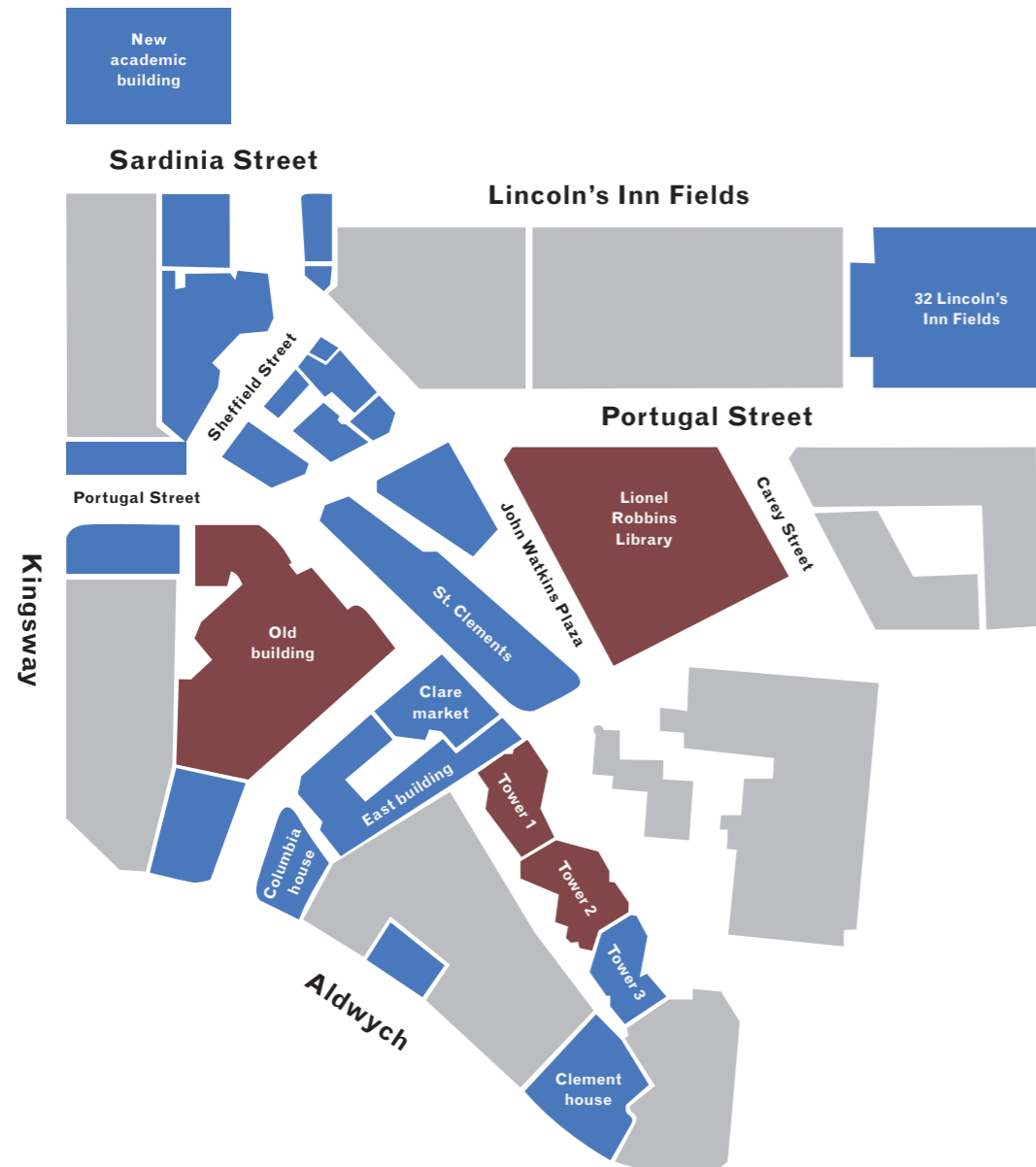
During this session we will try to identify key questions at the interface of economics and ecology. These questions will then be discussed at the interactive brunch on Day 3.

16.00 – 17.00 **KEYNOTE SPEECH**
Tower 1, Room G.01

Keynote by **Doyne Farmer**, Professor of Mathematics at Oxford University, where he co-directs the INET Oxford programme on Complexity, on “A theoretical framework for market ecology in finance”.

The chair of this session will be **Drew Purves** (Microsoft Research).

Map of LSE



Tower 1, G.01 / Tower 2, 9.04
(entrance to Tower 2 via Tower 1)
for registration and Day 1 and 2 of conference

Old Building, Level 5, Senior Common Room
for keynote speech/reception on Day 1

Lionel Robbins Building, Level 4, room 405
(entry via Portugual street)
for Day 3 of conference