Earth System Science Summer School (ES4)



'Promoting an interdisciplinary and integrated approach to environmental research'

Co Directors: Prof. Brian Hoskins, Univ. of Reading & Prof. Peter Liss, UEA

The course is intended for Ph.D. students at the end of their 1st or 2nd years of study, as well as research workers and policy universities. makers from research institutes, government and industry. The ES4 Summer School will:

- provide training in Earth system science through key topics addressing interactions of different environments, and the dynamic processes that link their physical, chemical, biological and social components.
- enable environmental researchers to appreciate how their own specialised studies fit into a broader context.
- involve a wide range of expert lecturers, from the UK and overseas, and through discussions and practical exercises, encourage all course participants to widen their scientific linkages.

Speakers and Agenda	
Mon 2 Sept. pm	What is Earth System Science?: B Hoskins (Reading) Earth System Science, Another Viewpoint: B Moore III (New Hampshire, USA)
Tues 3 Sept.	Earth's Energy Budget and Climate Change: K Shine (Reading) J Mitchell (UKMO)
Guest Lecture	The Role of the Antarctic in the Earth System: C Rapley (BAS)
Wed 4 Sept.	The Global Water Cycle: R Gurney (Reading) J Wallace (CEH)
Thur 5 Sept.	The Global Carbon Cycle: P Jarvis (Edinburgh) A Watson (UEA)
Guest Lecture	Biodiversity: G Boxshall (NHM) Poster session
Fri 6 Sept.	Other Biogeochemical Cycles: D Fowler (Edinburgh) P Liss (UEA)
Mon 9 Sept.	Palaeo-Perspectives: N McCave (Cambridge) P Valdes (Reading)
Guest Lecture	Stratospheric Chemistry: J Pyle (Cambridge) Poster session
Tue 10 Sept.	Socio-Economic Aspects of Global Change: K Brown (UEA) T Benjaminsen (Agricultural University, Norway)
Wed 11 Sept. am	Natural Resource Exploitation, Food and Fibre: P Gregory (Reading) J Ingram (CEH)
pm	Climate Variability: J Slingo (Reading) T Guymer (SOC)
Guest Lecture	Oceanic Processes and Observations and Global Change: P Killworth (SOC)
Thur 12 Sept. am pm	Climate Variability Practical: J Slingo T Guymer Earth System Modelling; Integration and Synthesis: P Cox (UKMO) A Ganopolski (PIK, Germany)
Fri 13 Sept. am	Earth System Modelling Practical: P Cox A Ganopolski

Applications should be sent as soon as possible to the ES4 Coordinator: Louise Bohn, ENV, UEA, Norwich NR4 7TJ Tel: +44 1603 593399 E-mail: es4@uea.ac.uk

For more information

and registration forms • http://www.uea.ac.uk/env/es4