

**Inaugural Lecture: Professor Gavin Esler
'Chaos in flatland: a fresh look at decaying two-dimensional turbulence'**

Speaker: Professor Gavin Esler, UCL

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Date/Time: Wednesday, 11 February 2015, 4:00pm

Venue: Room 505, Mathematics Department

Title: Chaos in flatland: a fresh look at decaying two-dimensional turbulence

Abstract

Understanding fluid turbulence in two dimensions has of been of interest to geophysical fluid dynamicists and plasma physicists for many decades. While it is questionable whether there exist flows in nature that are exactly two-dimensional, the small aspect ratio of the atmosphere and oceans nevertheless means that the study of idealised two-dimensional flows can reveal key aspects of the physics of more realistic systems. One such idealised model, which is simple enough to allow detailed mathematical study, consists of chaotically interacting point (i.e. very small) vortices. Can this model be used to learn anything new about real fluid turbulence?

Details

Celebrating the Inaugural Lecture of Professor Gavin Esler in Room 505, Mathematics Department

Programme:

4:00 Introduction to Proceedings, Professor Nick Brook, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL.

4:10 Inaugural Lecture by Professor Gavin Esler 'Chaos in flatland: a fresh look at decaying two-dimensional turbulence'.

Lecture is chaired by Professor Nick Brook, Executive Dean, Mathematical and Physical Sciences Faculty (MAPS), UCL and introduced by Professor Robb McDonald, Head of Department of Mathematics. Professor Robb McDonald will be giving the vote of thanks.

5:00 Reception in Room 502.

Link: <http://iris.ucl.ac.uk/iris/browse/profile?upi=JGESL00>