

**15th Biennial OXFORD / CAMBRIDGE
APPLIED MATHEMATICS MEETING
PROGRAMME FOR THE
'WOOLLY OWL TROPHY'
2011**

16th June, Lecture Room 1 and the MI Common Room

Invited Judges

John Harper

(Victoria University of Wellington, NZ)

Arash Yavari

(Georgia Tech, Atlanta, USA)

Sharon Stephen

(University of Birmingham, UK)

10:45 *Morning Coffee The Maths Inst Common Room*

11:10 Introduction

11:15 **Andrew Stewart** (Oxford)

“Cross-equatorial flow of abyssal ocean currents with a complete representation of the Coriolis force”

11:35 **Till Wagner** (Cambridge)

“Floating carpets and the delamination of thin elastic sheets”

11:55 **Chris Lustri** (Oxford)

“Exponential asymptotics: when near enough isn't good enough”

12:15 **Daan van Sommeren** (Cambridge)

“Buoyancy-induced mixing in a narrow vertical channel”

12:35 **Dan Rowlands** (Oxford)

“Quantifying uncertainties in 21st century climate change”

13:00 *Lunch The Maths Inst Common Room*

14:00 **Madeleine Golding** (Cambridge)

“Two-phase gravity currents in carbon dioxide sequestration ”

14:20 **Ingrid Von Glehn** (Oxford)

“Image inpainting on surfaces”

14:40 **Hugh Lund** (Cambridge)

“When water bombs burst”

15:00 **Derek Moulton** (Oxford)

“Surface growth: kinetics to mechanics (and lots of pretty seashells along the way)”

15:20 **Samuel Rabin** (Cambridge)

“Nonlinear optimal perturbations in plane Couette flow”

15:40 *Tea The Maths Inst Common Room*

16:00 **James Lottes** (Oxford)

“Reservoir simulation”

16:20 **Perla Sousi** (Cambridge)

“Mobile geometric graphs: detection, coverage and percolation”

16:40 **Philip Murray** (Oxford)

“The clock and wavefront model revisited”

17:00 **Adam Kucharski** (Cambridge)

“Modelling a lifetime of infection”

17:30 RESULT ROUND-UP – our esteemed judges

18:00ish *The Royal Oak, Woodstock Road (2 minutes from the Mathematical Institute – area reserved)*