

***MAXWELL LECTURE  
KING'S COLLEGE LONDON, 2006***

**Dr Graham McDonald, University of Salford**

**20 November**

**Complexity: a physics of everything**

From clouds to fluids to life itself! An exploration of the fascinating world of complexity - a subject that builds bridges across diverse fields such as physics, chemistry, biology, geology and economics. Simple universal concepts, at the heart of this blossoming subject, will be outlined with a minimum of mathematics. A particular emphasis will be placed on prospective applications in the technological field of lasers and optics, including our discoveries of lasers that output fractal light and a novel mechanism for the spontaneous generation of optical fractals.