

A portrait of John Toland, a man with glasses, wearing a suit and tie, looking slightly to the side.

The Seventh Brooke Benjamin Lecture on Fluid Dynamics

Wednesday 27 November 2013 at 5pm

Lecture Theatre L2
The Mathematical Institute
Andrew Wiles Building
University of Oxford

John Toland

Isaac Newton Institute
University of Cambridge

The fascination of what's difficult: Mathematical aspects of classical water wave theory from the past 20 years

Brooke Benjamin believed that mathematical proofs and data from carefully designed and executed experiments were two pillars upon which scientific progress rests. He made distinguished contributions to both.

Experimental observations about steady water waves have famously challenged mathematicians since Stokes and Scott-Russell in the 19th century and modern methods of global analysis are inadequate to answer the simplest of questions raised by careful numerical experiments in the 20th century.

This lecture concerns mathematical advances that have emerged since Brooke's untimely death in 1995 and elucidates important challenges that remain to the present day.

All are warmly invited to attend the lecture and reception that follows.

Please email finlayson@maths.ox.ac.uk to register your attendance.

<http://www.maths.ox.ac.uk/events/brooke-benjamin-lecture>