

Hong Kong Mathematical Society and  
CAS AMSS-PolyU Joint Laboratory  
in Applied Mathematics

Joint Distinguished Lecture

# Some mathematical problems for liquid crystals

**Prof. Sir John Ball**

Heriot-Watt University and Institute for  
Advanced Study (City University of  
Hong Kong)



## ABSTRACT

The lecture will give an introduction to classical theories of liquid crystals and discuss some related problems, such as the stability of universal solutions, exterior problems and thin films.

**Date : 5 December 2018 (Wednesday)**

**Time : 4-5pm (refreshment will be served at 3:30pm – 4pm)**

**Venue : Room Y302, Core Y, PolyU**

## ALL ARE WELCOME !

## BIOGRAPHY

Sir John Ball is currently Professor of Mathematics at Heriot-Watt University, Edinburgh, and is Professor Emeritus at the University of Oxford, where he was formerly Sedleian Professor of Natural Philosophy. He has made fundamental contributions to nonlinear partial differential equations, the calculus of variations and their applications to materials science and liquid crystals. He was a member of the first Abel Prize Committee in 2002, and of the Fields Medal Committee in 1998 and 2006. From 1996-1998 he was president of the London Mathematical Society, and from 2003-2006 president of the International Mathematical Union (IMU). From 2011-2018 he was a member of the Executive Board of the International Council for Science. He has received many distinguished awards and honours, including the Royal Medal of the Royal Society of Edinburgh (2006), the Sylvester Medal (2009), the John von Neumann Prize (2012), the King Faisal Prize for Science (2018) and the Leonardo da Vinci award (2018). He is a Fellow of the Royal Society and of the Royal Society of Edinburgh, and a Foreign Member of the French Academy of Sciences, the Norwegian Academy of Science and Letters, and the Istituto Lombardo.