

**Churchill MCR's  
Annual  
Conference on Everything**

Saturday,  
May 5th, 2012  
13:00—19:00 PM  
Wolfson Hall,  
Churchill College

**Key Note Speaker  
Prof. Nicholas H. Bingham**

Senior Investigator  
at Imperial College

And  
Visiting Professor  
at London School of Economics

Prof. Bingham is Senior Research Investigator at Imperial College London, and Visiting Professor at the London School of Economics. His work focuses on the field of probability theory, stochastic analysis, and analysis more generally.

Prof. Bingham did his undergraduate in mathematics at Trinity College at the University of Oxford. He was a research student at Churchill College, University of Cambridge, where he obtained his PhD in 1969 under the supervision of Dr. David G. Kendall. In 1996 he also obtained a ScD from the University of Cambridge.

He serves as Associate Editor of *Expositiones Mathematicae* and Obituaries Editor of the London Mathematical Society.



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Program

How do immune cells seek and destroy bacteria By Si Ming Man	13:00
Testing Alternative Theories of Gravity By Christopher Berry	13:20
Building trees and digging tunnels: understanding the evolution of talpid moles By Richard S. Thompson	13:40
Silicate, carbonate co-substituted hydroxyapatite for bone grafting applications By Robert J. Friedrichs	14:00

Coffee Break (Wolfson Foyer)	14:20
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Physics of ultra-cold gases By Kayvan Sadegzadeh	14:40
The influence of different head positions on F3 By Yvonne Flory	15:00
Turbulent buoyant convection from a maintained source of buoyancy in a narrow vertical tank By Daan Van Som-	15:20

Coffee Break (Wolfson Foyer)	15:50
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Building a robot friend that will <i>probably</i> speak to you By Matt Handerson	16:10
How to Make Communication Perfectly Secure and Computers Lightning-Fast Using Semiconductor Devices By Frederik Floether	16:30
Automated model optimization to study spike shape modulation in Layer 2/3 cortical pyramidal neurons By Mike Vella	16:50

<b>Keynote by Prof. Nicholas H. Bingham</b>	<b>17:10</b>
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Poster session (SCR Lobby)	18:15
Drinks Reception -Cockcroft Room	18:45