

Conference on Everything  
May 5th, 2012

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
Physics of ultra-cold gases By Kayvan Sadegzadeh	14:00
Coffee Break (Wolfson Foyer)	14:20
Silicate, carbonate co-substituted hydroxyapatite for bone grafting applications By Robert J. Friedrichs	14:40
Turbulent buoyant convection from a maintained source of buoyancy in a narrow vertical tank By Daan Van Sommeren	15:00
How to Make Communication Perfectly Secure and Computers Lightning-Fast Using Semiconductor Devices By Frederik Floether	15:20
Coffee Break (Wolfson Foyer)	15:50
Automated model optimization to study spike shape modulation in Layer 2/3 cortical pyramidal neurons By Mike Vella	16:10
Towards a greater understanding of the "killer" shrimp <i>Dikerogammarus villosus</i> : impacts, control, and projections for future spread By Allison Truhlar	16:30
Building a robot friend that will <i>probably</i> speak to you By Matt Henderson	16:50
<b>Keynote by Prof. Nicholas H. Bingham</b>	<b>17:10</b>
Poster session (SCR Lobby)	18:15
Drinks Reception -Cockcroft Room	18:45

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

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

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

Senior Investigator  
at Imperial College  
And

Visiting Professor  
at London School of Economics

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N. H. (Nick) Bingham took his first degree in Mathematics at Oxford in 1966, and his PhD in Cambridge in 1969. He was at Churchill College, and worked on probability theory under Professor David G. Kendall (1918-2007), Professor of Mathematical Statistics at the University of Cambridge and a Fellow of Churchill College from 1962. He began his academic career in 1969, and spent thirty years at the University of London, at Westfield College (1969-84; Reader, 1980), Royal Holloway College (1984-95; Professor, 1985) and Birkbeck College (1995-99). He was at Brunel University from 2000-03 and Sheffield University from 2003-06. Since 2006, he has been at Imperial College, London and the London School of Economics. He is a probabilist, with particular interests in limit theorems; he works also in analysis, statistics and mathematical finance.

