



# The Scientific & Medical Network

## OPEN DIALOGUE

## ROADS TO REALITY

*Matter, Mind and Symbol*

Gustav Tuck Theatre,  
University College, London,  
Gower Street, London WC1

Saturday 18th November 2006

### Keynote Speaker

Sir Roger Penrose OM, FRS  
with  
Prof. Bernard Carr  
Prof. Basil Hiley  
Chair: Prof. Chris Clarke



Sir Roger Penrose OM, FRS



Prof. Bernard Carr



Prof. Basil Hiley



Chair: Prof. Chris Clarke

## PROGRAMME

- 9:00** Registration
- 9:30** Introduction – Prof. Chris Clarke
- 9:45** Sir Roger Penrose: *The Road to Reality: Science and the Mind*
- 11:00** Coffee
- 11:30** Prof. Basil Hiley:  
*Quantum Reality, the Implicate Order and the Mind/Matter Problem*
- 12:30** Dialogue with audience participation
- 1:00** Lunch
- 2:00** Short contributions from the floor
- 3:00** Prof. Bernard Carr: *Matter, Mind & Higher Dimensions*
- 4:00** Tea
- 4:30** Plenary dialogue
- 5:15** Conclusions

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**The Scientific and Medical Network** is an informal interdisciplinary forum consisting of scientists and doctors, psychologists, engineers, philosophers and other professionals. The Network came into existence in 1973 and has Members in more than 50 countries. It questions the assumptions of contemporary scientific and medical thinking by exploring the frontiers of science and consciousness. See [www.scimednet.org](http://www.scimednet.org)

### **Chair: Prof Chris Clarke**

Chris Clarke was Professor of Applied Mathematics at the University of Southampton, where he is now Visiting Professor. His research career has mostly been in astrophysics, but extending to the physics of the brain and consciousness studies which are now his main areas of interest. He has for many years been a member of the Council of GreenSpirit (the Association for Creation Spirituality). His latest book is *Ways of Knowing* (Edited), Imprint Academic, 2005.

## THE SPEAKERS

### **Sir Roger Penrose**

Sir Roger Penrose, OM, FRS obtained his Ph.D. in algebraic geometry at St John's College, Cambridge. He held several teaching and research positions in the UK and USA, particularly Birkbeck College London, becoming Rouse Ball Professor of Mathematics at Oxford University from 1973 to 1998. He has twelve honorary degrees, has been elected to four foreign national scientific organisations, including USA's National Academy of Sciences, and recently became Fellow of the European Academy of Sciences. He has won numerous awards, including The Royal Astronomical Society's Eddington Medal (with Stephen Hawking) 1975, The Royal Society's Royal Medal 1985 and recently the Italian Society for General Relativity and Gravitation's first Amaldi Medal 2004.

He has written many scientific papers and several books, including *The Emperor's New Mind: On Computers, Minds, and the Laws of Physics*, which won the 1990 Science Book Prize, *Shadows of the Mind: A Search for the Missing Science of Consciousness*, and most recently *The Road to Reality: A Complete Guide to the Laws of the Universe*. His research interests include various aspects of physics and geometry, with many contributions to general relativity theory (e.g. theorems demonstrating inevitability of spacetime singularities in black holes and big bang, under very general circumstances), to foundations of quantum theory (with a specific proposal for a level of failure of quantum linear superposition), to the physical basis of consciousness (including a fairly specific quantum-theoretic scheme, with S. Hameroff). He originated twistor theory, a proposal for uniting quantum ideas with space-time structure.

### **Prof. Bernard Carr**

Professor Bernard Carr, M.A., Ph.D., read mathematics as an undergraduate at Trinity College, Cambridge. For his PhD he studied the first second of the Universe, working under Stephen Hawking. He was elected to a Fellowship at Trinity and then spent a year travelling around America as a Lindemann Fellow before taking up a Senior Research Fellowship at the Institute of Astronomy in Cambridge. In 1985 he moved to the University of London, where he is now Professor of Mathematics and Astronomy at Queen Mary. He has also held Visiting Professorships at various institutes in America and Japan. His professional area of research is cosmology and relativity - with particular interest in such topics as the early universe, dark matter and the anthropic principle. He has just edited a book entitled *Universe or Multiverse?* He has a long-standing interest in the nature of mind and physics and is particularly keen to extend the paradigm of physics to incorporate consciousness and associated mental phenomena. He is a member of both the Society for Psychical Research, recently serving as its President for four years, and the Scientific and Medical Network.

### **Prof. Basil Hiley**

Basil Hiley received a PhD for his work in Cooperative Phenomena in ferromagnets and long chain polymer molecules from King's College, London in 1962. He then joined the Physics Department of Birkbeck College in the University of London and was appointed to a Chair in Physics in 1995. His main interests are in the foundations of quantum theory and relativity and had long and fruitful collaboration with the late Professor David Bohm. They wrote many papers together and presented a summary of some aspects of this work in their book, *The Undivided Universe; an Ontological Interpretation of Quantum Mechanics*. At present he is investigating a process-based theory of pre-space with the specific aim of developing a quantized form of general relativity. He is also exploring the possibility of using these ideas in an attempt to understand the relationship between mind and matter. He has delivered two plenary lectures to the famous Tucson Consciousness conferences.

# BOOKING FORM

18 November 2006

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Conference Administrator, Scientific and Medical Network,  
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