Overview and scope of meeting 11/4/2005

"Proton conduction in diverse media"

Fitzwilliam College, 11-12th April 2005

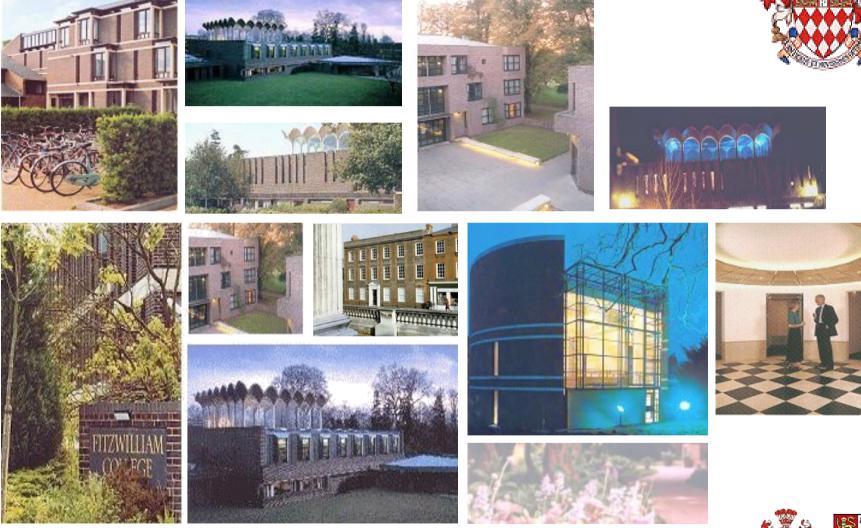
James Elliott Materials Modelling Group Department of Materials Science & Metallurgy

Stephen Paddison University of Alabama in Huntsville



Fitzwilliam College, Cambridge





Acknowledgements for funding support

- The meeting supported by following bodies:
- UK Engineering and Physical Sciences Research Council (EPSRC) under GR/S80455/01

http://www.epsrc.ac.uk

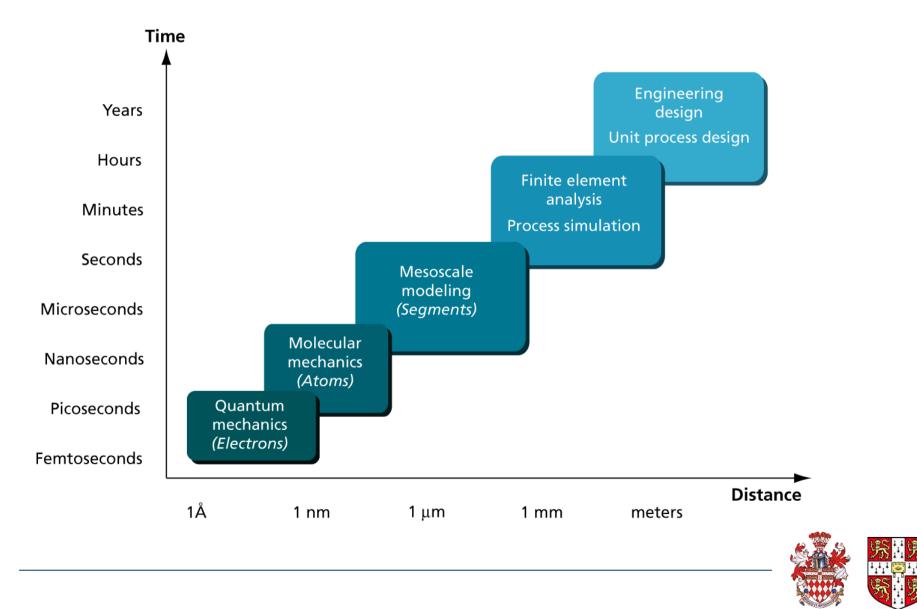


UK Collaborative Computing Project number 5 (CCP5)
 "... for computer simulation of condensed phases"

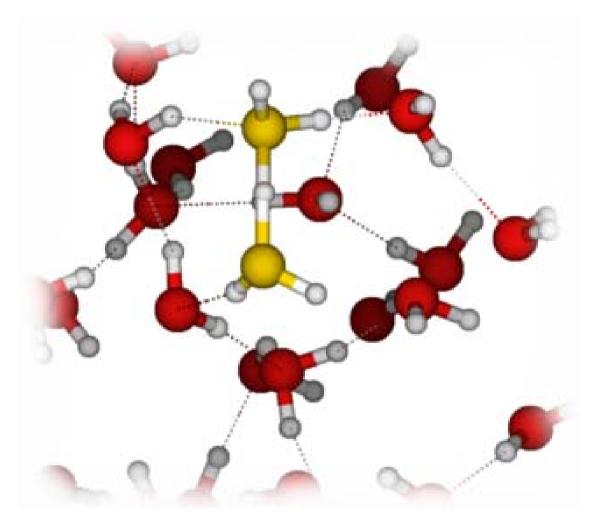
http://www.ccp5.ac.uk



Multi-scale approach

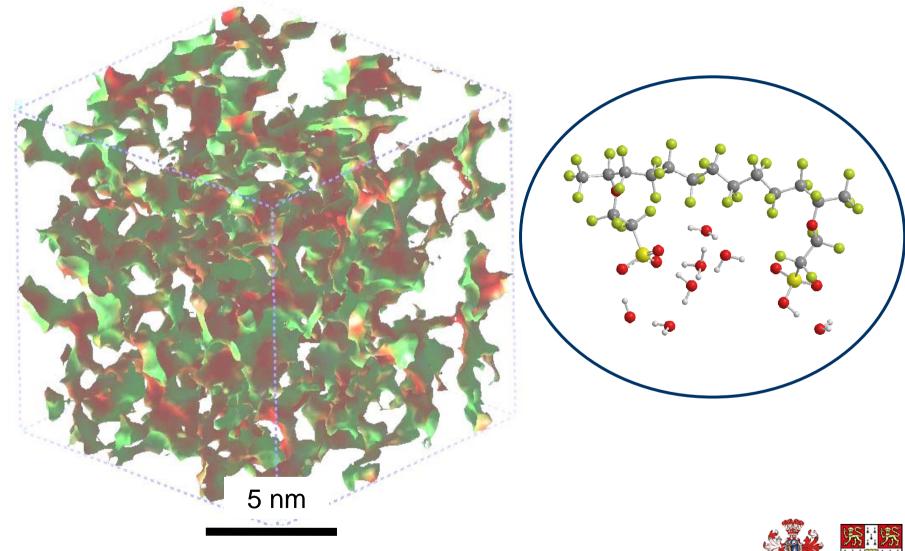


Proton transport in bulk water



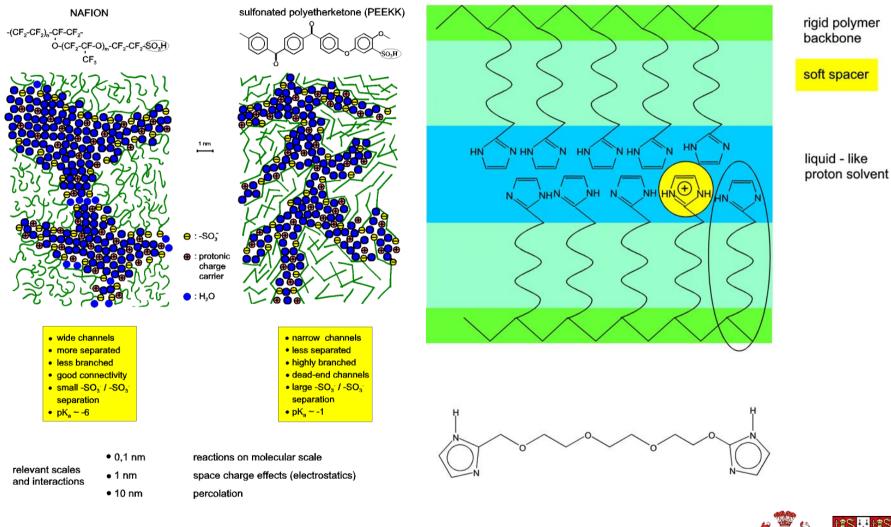


Polymer electrolyte membranes for fuel cells



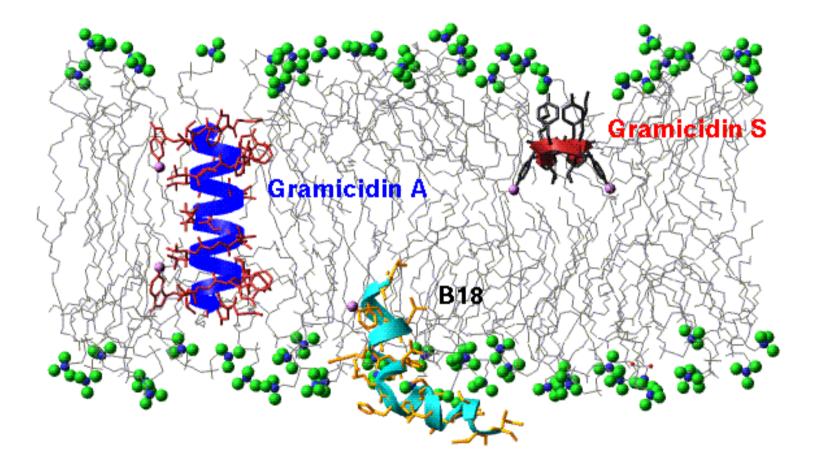


New membrane materials and composites



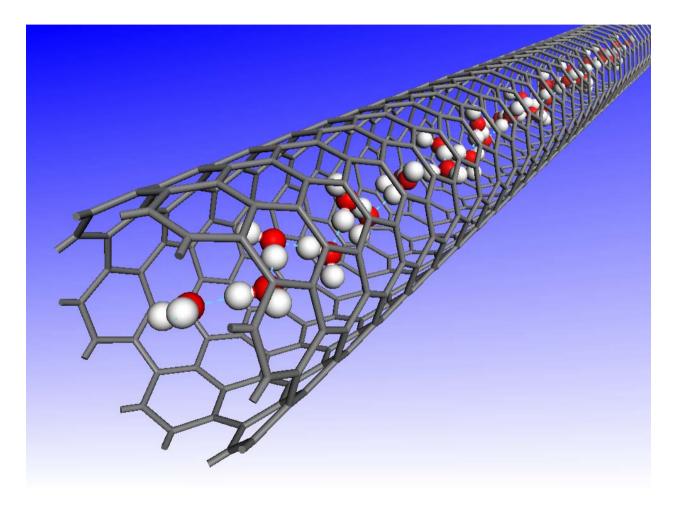


Gramicidin water channel



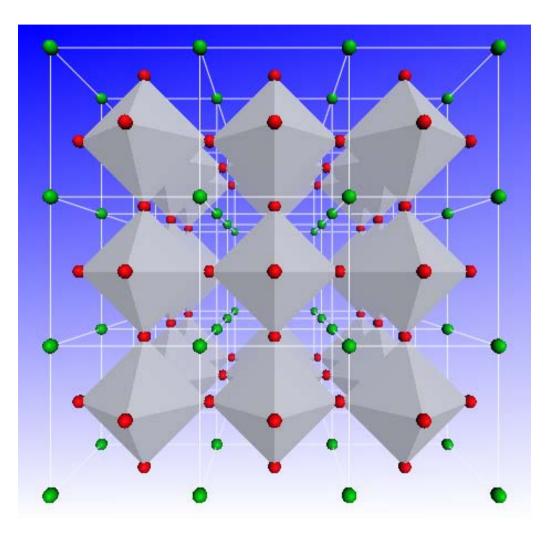


Water wires within carbon nanotubes





Proton transport through inorganic materials





Outline of programme for first day

First session (chair: J.A. Elliott)	13:45-15:45	
 Klaus-Dieter Kreuer, MPI Stuttgart 		
 Mark E. Tuckerman, New York University 		
Discussion and coffee	15:45-16:00	
Second session (chair S.J. Paddison)	16:00-18:00	
 Jacques Rozière, University of Montpellier II 		
 Gregory A. Voth, University of Utah 		
Conference photograph	18:20	
 6.30pm for 6.30pm: congregate outside Wilson Congregate 	ourt	
Dinner and reception in Hall	19:00	
- 7.00pm in Wilson Court for 7.30pm dinner in Hall		

Outline of programme for second day

- First session (chair: J.A. Elliott) 09:30-11:30
 - Dr. Gerhard Hummer, NIDDK, Maryland.
 - Prof. Stephen J. Paddison, University of Alabama, Huntsville.
- Coffee & Poster Session 11:30-12:30
- Second session (chair S.J. Paddison) 13:30-15:30
 - Prof. Alexei Kornyshev, Imperial College, London.
 - Dr. M. Saiful Islam, Surrey University, UK.
- Coffee and discussion 15:30-16:00
- Third session (chair S.J. Paddison)
 - Prof. Thomas E. DeCoursey, Rush Medical Centre, Illinois.
 - Prof. Robert Slade, Surrey University, UK.
- Informal dinner in town for those staying



16:00-18:00

Conference Photo



