

**Department of Physics  
Oliver Lodge Laboratory**

**“Nanoscience and Nanotechnology for Energy “  
Annual One-day Meeting of the  
Institute of Physics Nanoscale Physics and Technology Group  
Wednesday 18<sup>th</sup> June 2008**

10.00 - 10.55	Coffee and registration (Room 337)
10.55. - 11.00	Opening Remarks <i>Prof. Ronan McGrath</i>
<b>Morning Session:</b>	Chaired by Professor Ronan McGrath, Department of Physics
11.00. – 11.35	<u>Invited Lecture 1</u> <i>Prof. Wendy Flavell (Manchester)</i> <i>“Fundamental interactions at nanoparticle surfaces: understanding novel solar cells”</i>
11.35 – 12.10	<u>Invited Lecture 2</u> <i>Dr. Chris Lucas (Liverpool)</i> <i>“Nanoscale Approach to Electrocatalyst Design for Fuel Cell Applications”</i>
12.10. – 12.45	<u>Invited Lecture 3</u> <i>Prof. Jenny Nelson (Imperial)</i> <i>“Nanostructured and Molecular Materials for Photovoltaic Energy Conversion”</i>
12.45 – 14.00	Lunch and posters (Room 323)
(13.00 - 13.30	AGM of I.O.P. NPT Group, Room 337)
<b>Afternoon Session:</b>	Chaired by Dr. Steve Bennett (STFC Daresbury)
14.00 – 14.35	<u>Invited Lecture 4</u> <i>Professor Tim Jones (Warwick)</i> <i>“Molecular Solar Cells”</i>
14.35 – 14.55	<u>Contributed Lecture 1</u> <i>Dr. Darren Bagnall (Southampton)</i> <i>“Nanostructures for enhanced light-trapping in photovoltaics”</i>
14.55 – 15.05	<i>“Materials for Energy Research within the UK Energy Research Centre”</i> <i>Prof. Jenny Nelson (Imperial)</i>
15.05 – 15.30	Discussion
15.30	Wine reception and posters (Room 337)
16.00	Poster prize and close.

**Posters**  
**Contributors and Titles**

Dr. Tim Noakes (STFC Daresbury)

“Characterising Nanostructured Materials Using MEIS”

Dr. Gengzhao Xu (Cardiff)

“STM study of self-assembled alkanethiol monolayers and mixed alkanethiol/-dithiol monolayers on Au (111) substrates”

Mr. Neil Bennett (Cardiff)

“Current-Voltage spectroscopy measurements on single molecules under UHV and at low temperature”

Mr. Richard Everson (Cardiff)

“Simultaneous optical and scanning probe microscopy on quantum dots”

Mr. Henje Simmonds (Cardiff)

“Polythiophene Nanowires: Structure and Electronic behaviour”

Dr. Tiehan Shen (Salford)

“The fabrication of nanostructured materials by template based techniques”

Mr. Joe Parle (Liverpool)

“Nanoscience with quasicrystals and complex metallic alloys”