

## **The Physics Higher Education Conference 2008**

### **Programme**

#### **Thursday 4<sup>th</sup> September**

9.30 – 10.30	Registration and coffee
	Chair: <i>Derek Raine</i>
10.30 – 10.40	Welcome and introduction
10.40 – 11.30	Keynote Lecture - National Teaching Fellow 2007 'The Neuroscience of Teaching Physics' <i>Steve Swithenby, The Open University</i>
	Chair: <i>Bruce Sinclair</i>
	Oral Presentations
11.30 - 11.45	Towards a Conceptual Inventory in Quantum Mechanics <i>Simon Bates, Judy Hardy, Rachel Archer, University of Edinburgh</i>
11.45 - 12.00	Scientific Thinking; Insights from an Academic Game <i>Fatheyah Al Ahmadi, University of Glasgow</i>
12.00 - 12.15	Student Attitudes to Physics at School and University <i>Jim Knowles and Karen Moss, Nottingham Trent University</i>
12.15 - 12.30	Attitudes, Learning and Problem Solving in Physics <i>Rizwan Rana and Norman Reid, University of Glasgow</i>
12.30 – 13.30	Lunch
	Workshop
13.30 – 15.30	Understanding the Undergraduate Student Learning Experience in Physics <i>Mike Edmunds and Tina Overton, HEA Physical Sciences</i>

15.30 – 16.00	Tea
	Chair: <i>Sally Jordan</i>
16.00 – 16.15	Oral Presentations Building a Community of Physics and Astronomy Distance Learners <i>Dave Edwards, The Open University</i>
16.15 - 16.30	Supporting Level 1 Physics & Astronomy Undergraduates at the University of Glasgow <i>Morag Casey, University of Glasgow</i>
16.30 - 16.45	We've Solved our Maths Problem: Have You? <i>Kristel Torokoff and Simon Bates, University of Edinburgh</i>
16.45 - 17.00	Use of 3D Virtual Environments in Teaching Astronomy and Physics <i>Rob Lucas and Ulrich Kolb, PiCETL, The Open University</i>
17.00 - 17.15	Development of Learning Material for Formative Computer Based Assessment in Physics and Astronomy <i>Antje Kohnle, Tom Brown, Aly Gillies, Jane Greaves, Chris Hooley, Steve Lee, Bruce Sinclair and Graham Smith, University of St Andrews</i>
17.15 - 17.30	The Physical Sciences Question Bank – What Next? <i>Dick Bacon, University of Surrey</i>
19.00	Wine reception
19.30	Conference Dinner

## Friday 5<sup>th</sup> September

	Chair: <i>Simon Bates</i>
	Oral Presentations
9.00 - 9.15	Being SUPA (Infrastructure) <i>Sean Farrell and Avril Manners, Scottish Universities Physics Alliance</i>
9.15 - 9.30	Being SUPA (Computer Mediated Activity) <i>Karon McBride and Avril Manners, Scottish Universities Physics Alliance</i>
9.30 - 9.45	Being SUPA (Video-Conferenced Lectures) <i>David Crooks and Avril Manners, Scottish Universities Physics Alliance</i>
9.45 - 10.15	Coffee
	Workshop
10.15 – 12.15	Interactive Screen Experiments: A New Resource for Experimental Physics <i>Paul Hatherly, Alan Cayless and Sally Jordan, piCETL, The Open University, and John Macdonald, PiCETL, The University of Reading</i> <b>Note:</b> If you have your own laptop it would be very helpful if you could bring it to this workshop.
12.15 – 13.15	Lunch
	Chair: <i>Dick Bacon</i>
13.15 – 13.30	Oral Presentations R1C12 Diagram Helping Educators Structuring Nucleons in Nuclei <i>Wajdi Ratemi, Alfateh University</i>
13.30 – 13.45	Undergraduate Student Perceptions, Views and Opinions of Laboratory Teaching of Physics <i>Peter Sneddon, University of Glasgow</i>
13.45 – 14.00	Problem-based learning labs in first year physics <i>Antje Kohnle, Cameron Rae, Tom Brown and Bruce Sinclair, University of St Andrews</i>
14.00 – 14.15	Closing remarks, tea and depart