

Appendix – Individual Outreach Activities

Dr Christoph Arns organised the *New Materials and Complexity IV* workshop at Kioloa in November, presented invited talks at the Formation Evaluation Society of Western Australia and the Curtin University, Perth in May, at Baker Hughes, Houston in June, Victoria University, Wellington in August and the Korean Institute of Geology, Mining and Materials, South Korea in September.

Dr Tomaso Aste gave an invited talk *Understanding the Geometrical Structure of Disordered Matter* at ETH in Zurich.

Professor Murray Batchelor presented a course of 15 lectures on *The Importance of Being Integrable* at the 2006 ICE-EM, Australian Graduate School in Mathematics, University of Queensland in July.

Dr Boyd Blackwell made presentations to Engineers Australia in Sydney, the University of Melbourne and Queensland on the *H-1 National Facility* and prospects for Australian involvement in ITER.

Professor Rod Boswell initiated a joint project with All Saints School in Southern Queensland to use fuel cells developed at the ANU in their teaching program. Three teachers from All Saints have visited the SP3 laboratory and five students fabricated fuel cells in the laboratory during the year.

Professor Peter Bouwknecht gave invited talks to the Section de Physique Théorique, Saclay, France, the Erwin Schrödinger Institute, Vienna, Austria, the Laboratoire de Physique Théorique et Hautes Energies, École Normale Supérieure and Institut Henri Poincaré, Paris, France and the Department of Physics and Astronomy, University of Southern California, Los Angeles, United States.

Professor Aidan Byrne presented a number of talks on *Energy and Nuclear Power* These including talks to the National Council of Women (ACT) branch in March, at the *ANU Global Change and the Earth System Symposium* in June, the Liberal Party Northern ACT Branch in August, to Engineers Australia, Sydney in September, Forum Australia, Canberra and the AIP Congress, Brisbane in December. He was also an invited speaker on these issues at the *ANU College of Asia and Pacific Forum* in June, and the *Green Cross Earth Dialogues Forum*, Brisbane in July.

Dr Ying Chen participated in the Neutron Diffraction Advisor Committee at ANSTO which provides advice and examines the design and construction of new neutron flight polarization analysis spectrometer (Pelican) and Triple Axis Spectrometer (Taipan) to be used in new Opal reaction at Lucas Heights, NSW.

Professor Robert Dewar visited the Santa Fe Institute and the New England Complex Systems Institute in his role as convenor of the ARC Complex Open Systems Network (COSNet). He gave talks at New York University and University of New Hampshire.

Professor George Dracoulis was interviewed on *Down Amongst the Nuclei* by Robin Williams, ABC Radio as part of the *In Conversation* series of the Science Show in January. He also gave a number of interviews, including ABC radio, on issues associated with the *Uranium Mining, Processing and Nuclear Energy Review*. He attended the *15th Pacific Nuclear Basin Conference*, Sydney in October with other members of the Nuclear Task Force.

Professor Keith Fifield held a presentation followed by a tour for the ACT Branch of the Australian Institute of Physics in February.

Dr Xi-Wen Guan presented a course of 4 lectures on *Thermodynamic Bethe Ansatz for Quantum Gases* at the University of Science and Technology of China, Hefei, China during June and July and made a research visit to the University of Queensland in July.

Dr Matthew Hole chaired the *Australian ITER Forum*, which has been presenting the case for sustainable growth in fusion science capability in Australia, and identifying a possible Australian role in the world's largest science project, ITER. In this capacity he held radio interviews with national and local radio, and wrote and featured in various news articles and press releases. Dr Hole briefed a number of parliamentarians on fusion energy, including Senator Christine Milne of the Greens, and the then Minister for Environment and Heritage, Senator Ian Campbell. He also coordinated a tour by Dr Barry Green, a senior official within the fusion energy unit of the European Commission. The tour, sponsored by COSNet, delivered 13 lectures across nine Australian cities on Fusion Science and ITER. Dr Hole gave an invited lecture to the UK Atomic Energy Authority on Australian efforts to engage ITER and outlined Australian skills area in fusion science.

Dr Stephen Hyde gave invited talks at the Department of Chemistry and Biochemistry, Arizona State University, *Tangled (up in) Cubes & (Knotted) Nets from 2D Tilings*, and the Spatial Information Architecture Laboratory at RMIT, *2D Hyperbolic Geometry*.

Professor Wieslaw Krolikowski presented lectures on *Soliton in Optical Lattices*, University of Bonn, Germany, Universidad Autonoma De Madrid, Spain and Clausthal Technical University, Clausthal, Germany.

Dr Greg Lane hosted, as ACT director for the Siemens Science Experience, 90 year nine students in October for a series of scientific visits at locations which included the Australian National University, University of Canberra, Canberra Institute of Technology and CSIRO.

Drs Greg Lane, Stephen Tims and Anna Wilson conducted Summer School laboratories and *14UD Heavy Ion Accelerator Facility* tours for National Youth Science Foundation

groups in January and tours for the gold medal winners of the International Science Olympiad in September.

Professor John Love presented a talk on photonics to the ACT Siemens Science & Engineering Experience at ANU for year nine students and a photonics lecture at the University of New South Wales.

Professor Barry Luther-Davies presented a colloquium at the University of St Andrews in May on *Chalcogenide Photonics*.

Dr Franklin Mills contributed to an ABC Online article reporting on the arrival of the European Space Agency's Venus Express spacecraft at Venus in April and contributed to a BBC Online article reporting on the status of ESA's Venus Express spacecraft in October.

Dr Robert Robson met with Queensland Premier Peter Beattie at a Parliament House business function and the Chief Scientist of Queensland, Professor Peter Andrews in August to discuss possible links between the Centre for Antimatter-Matter Studies and scientific enterprises in Queensland.

Dr Brian Robson presented talks at University of Melbourne and University of Adelaide.

Dr Andrei Rode presented an invited lecture *Magnetic carbon nanocluster growth in a plume formed by MHz-pulse-rate laser ablation* at the Oak Ridge National Laboratory in the United States in May.

Messrs Christian Rosberg, Robert Fischer, and Ms Amrita Prasad presented *Optics is Light Work* to year nine students at Trinity High School, Canberra in August.

Messrs Christian Rosberg, Robert Fischer, Darren Freeman, and Ms Amrita Prasad made hands-on optics demonstrations and poster presentations at the Australian National University Open Day public event, representing the Research School of Physical Sciences and Engineering and the ANU Student Chapter of the Optical Society of America.

Dr Anna Samoc visited the Proprietes Optiques des Materiaux et Applications Laboratory, University of Angers, France in July and performed experiments of optical poling of chromophores in polymer optical fibres and films. She was also invited to give seminars on *Optical second- and third-order nonlinear properties of selected molecular systems* at the Institute of Physical and Theoretical Chemistry, Wroclaw University of Technology, and the Department of Chemistry, Wroclaw University, Poland in October.

Dr Michael Shats convened the 19th *International Canberra Physics Summer School On Turbulence and Coherent Structures in Fluids, Plasma and Granular Flows* in January and Co-Chaired the workshop on *Turbulence and Coherent Structures* at ANU.

Dr Stephen Tims conducted a tour for the ACT Branch of the Australian Institute of Physics in February and supervised Benton Maxted and Stephen Carter as part of the *CSIRO Student Research Scheme 2006*.

Dr Anna Wilson attended a Science Education Meeting held by the Federation of Australia Scientific & Technological Sciences in August.

Dr David Weisser delivered four lectures on *electrostatic accelerators* at the School of Ion Beam Analysis and Accelerator Applications in Italy in March under the auspices of the International Atomic Energy Agency and the International Centre for Theoretical Physics who provided 20 guest lecturers catering for 42 participants from 21 countries.