Appendix – Honours and Awards

Dr Ken Baldwin was elected as a member of the Board of Directors of the Optical Society of America. He will commence his three-year term in January 2006.

Dr Rowena Ball has been awarded a Lagrange Fellowship to carry out Complex Systems Physics research at Politecnico di Torino, Italy.

Professor Murray Batchelor was awarded a grant under the Australian Academy of Science/JSPS Scientific Visits to Japan Program.

Dr Ying Chen was elected Fellow of the Australian Institute of Physics.

Dr Ben Corry won the Prize for Young Biophysicist of the Year at the joint meeting of the Australian Physiological Society and the Australian Society of Biophysics.

The Australian Academy of Science Pawsey Medal has been awarded to Dr Mahananda Dasgupta and will be presented to her at the Annual General Meeting in 2006. The Pawsey Medal recognises the contributions to science in Australia by the late Dr J.L. Pawsey, FAA. Its purpose is to recognise outstanding research in physics by scientists under 40 years of age.

Dr Matthew Hole was awarded a grant under the Australian Academy of Science Scientific Visits to Europe Program.

Dr John Howard was elected Fellow of the Institute of Physics, UK.

Professor Stephen Hyde was elected as Fellow of the Australian Academy of Science.

Professor Chennupati Jagadish was elected as Fellow of the Australian Academy of Science.

Professor Yuri Kivshar was awarded the 2005 Walter Boas Medal of the Australian Institute of Physics. The aims of the award are to promote excellence in research in physics in Australia and to perpetuate the name of Walter Boas.

Mr Kevin Lonsdale was awarded the Chancellor's Medal for Distinguished Contribution to the University.

Professor John Love was elected Vice-president of the International Commission for Optics.

Professor Barry Luther-Davies was elected to the Fellowship of the Australian Academy of Technological Sciences and Engineering. He was also awarded a Fellowship to the Optical Society of America.
Dr Dragomir Neshev was awarded an International Scientific Collaboration Award for travel to the USA by the Australian Academy of Sciences.

Dr Chiara Neto was awarded an Australian Colloids and Interface Science (ACIS) travel bursary.

Professor Barry Ninham was awarded the AAS Craig Medal.

Dr Elena Ostrovskaya was awarded a grant for Scientific Visits to Europe by the Australian Academy of Science as well as a travel grant of the Career Development Fund of the Equity and Diversity Unit, the Australian National University.

Dr Ilya Shadrivov has been awarded the Australian Optical Society Postgraduate Prize. He also received the International Union of Radio Science (URSI) Young Scientist Award at the URSI General Assembly held in New Delhi, India, in October 2005. Dr Shadrivov also received the Jagadishwar Mahanty Prize for the best PhD thesis submitted during the period September 2003 to August 2005 at the Research School of Physical Sciences and Engineering, Australian National University.

The Vice-Chancellors Award for Excellence in Innovation and Service Quality for 2004-2005 was awarded to the National Heavy Ion Accelerator Facility Team of the Department of Nuclear Physics. This award was presented at a special ceremony on 3 November. The Department of Nuclear Physics National Heavy Ion Facility Team includes: Dr David Weisser, Dr Nikolai Lobanov, Dr Gordon Foote, Dr Tibor Kibedi, Dr Paul Davidson, Mr John Bockwinkel, Mr Alan Cooper, Mr Alan Harding, Mr Justin Heighway, Mr John Kennedy, Mr Lorenzo Lariosa, Mr Alistair Muirhead, Mr Robert Turkentine, Mr Howard Wallace and Mrs Marjorie O'Neill.
Appendix – Collaborations and Cooperative Agreements

Professor N.N. Akhmediev
Project: Soliton as Strange Attractors
Partner: Dr J. M. Soto-Crespo, Consejo Superior de Investigaciones Científicas, Spain

Project: Optical Bullets in Dissipative Systems
Partner: Dr Ph. Grelu, Centre National de Recherché Scientifique, France

Project: Multicomponent Nonlinear Schrödinger Equation with Mixed Nonlinearities
Partner: Dr T. Kanna, Bharathidasan University, India

Project: Dissipative Soliton of the Discrete Complex Cubic–Quintic Ginzburg–Landau Equation
Partner: Dr K. Maruno, Kyushu University, Japan

Project: Method of Moments in Dissipative Systems
Partner: Dr E. Tsoy, Uzbek Academy of Sciences, Uzbekistan

Dr T. Alexander, Dr E. Ostrovskaya and Professor Yu.S. Kivshar
Project: Bose-Einstein Condensates on a Permanent Magnet Atomic Chip
Partners: Dr A. Sidorov and Professor B. Dalton, Swinburne University

Dr T. Aste
Project: Glasses and Granular Materials
Partners: Professor A. Coniglio and Dr M. Nicodemi, University of Naples, Italy

Project: Surface Instabilities and Granular Matter
Partner: Professor U. Valbusa, University of Genoa, Italy

Project: Glassy Behaviours in Complex Matter
Partner: Professor D. Sherrington, University of Oxford, UK

Dr T. Aste and Dr T.J. Senden
Project: Volume Fluctuations and the Temperature of Granular Matter
Partner: Professor H.L. Swinney, University of Texas at Austin, USA

Dr K.G.H. Baldwin
Project: Ultrahigh Resolution OPO Laser Sources
Partner: Professor B. Orr, Macquarie University

Dr K.G.H. Baldwin and Professor B.R. Lewis
Project: High Resolution XUV Laser Spectroscopy of Isotopic Nitrogen
Partner: Professor W. Ubachs, Vrije Universiteit Amsterdam, The Netherlands

Dr R. Ball
Project: Validation and Extension Studies of a Unified Dynamical Model for Plasma Confinement Transitions
Partner: Professor F. Porcelli, Politecnico di Torino, Italy

Project: Low-order Dynamical Models for Non-linear Fluid Behaviour in Quasi Two-dimensional Plasmas
Partner: Professor W. Horton, University of Texas at Austin, USA

Dr F.C. Barker
Project: Low-lying States in $^{11}$N
Partner: Dr C. Angulo, Université Catholique de Louvain, Belgium

Dr T.T. Barrows
Project: Glacier History of New Zealand
Partners: Dr P. Almond, Lincoln University, New Zealand; Dr R. Rose, University of Canterbury, New Zealand

Project: Glacier History of Mt Giluwe, Papua New Guinea
Partners: Dr M. Prentice, University of New Hampshire, USA; Professor G. Hope, Research School of Pacific and Asian Studies, Australian National University

Project: Glacier History of Luthers Pass, Sierra Nevada, USA
Partner: Dr D. Clark, Western Washington University, USA

Project: Exposure Dating of Wolfe Creek Crater, Northern Territory
Partners: Professor G. Miller, University of Colorado, USA; Dr J. Magee, Department of Earth and Marine Sciences, Australian National University

Project: Long Term Climate Change from Deep-sea Sediments
Partners: Professor P. De Deckker and Mr M. Spooner, Department of Earth and Marine Sciences, Australian National University; Dr S. Juggins, University of Newcastle, UK

Professor M.T. Batchelor
Project: Quantum Spin Ladders
Partners: Dr X.-W. Guan and Dr N. Oelkers, Mathematical Sciences Institute, Australian National University; Dr Z. Tsuboi, University of Tokyo, Japan

Project: Quantum Gases
Partners: Dr M. Bortz, Dr X.-W. Guan and Dr N. Oelkers, Mathematical Sciences Institute, Australian National University; Dr J. Links, University of Queensland

Project: Stromatolite Growth
Partners: Dr R. Burne, Department of Earth and Marine Sciences, Australian National University; Dr B. Henry, University of New South Wales; Dr J. Kaandorp, Vrije Universiteit Amsterdam, The Netherlands
Dr B.D. Blackwell and Professor J.H. Harris
**Project:** Data Mining of MHD Fluctuations on Heliotron-J
**Partner:** Dr K. Nagasaki, Kyoto University, Japan

Dr B.D. Blackwell and Dr J. Howard
**Project:** Soft X-ray Measurements on H-1NF
**Partner:** Associate Professor A.D. Cheetham, University of Canberra

Dr G.G. Borg and Professor J.H. Harris
**Project:** Plasma Antenna Concept Demonstrator
**Partner:** Dr N.M. Martin, Defence Science and Technology Organisation

Dr G.G. Borg and Mr P. Linardakis
**Project:** Plasma Switches for Mobile Phones
**Partner:** Dr R. Scheer, Motorola, USA

Professor R.W. Boswell, Dr O. Sutherland and Dr A. Aanesland
**Project:** High Brightness Ion Source
**Partner:** FEI Company, USA

Professor R.W. Boswell, Dr O. Sutherland and Dr C. Charles
**Project:** Dual Stage 4 Grid Space Thruster
**Partner:** European Space Agency

**Project:** Instabilities in High Density Plasmas
**Partners:** Dr P. Chabert, Dr C. Corr and Dr N. Plihon, École Polytechnique, Paris, France

Professor R.W. Boswell and Dr C. Charles
**Project:** Surface Functionalisation for Bio Applications
**Partners:** Professor D. McKenzie and Professor M. Bilek, University of Sydney

**Project:** Direct Methyl Fuel Cells
**Partners:** Dr A. Dicks and Mr B. Ladewik, University of Queensland

**Project:** Plasma Simulation
**Partner:** Dr J.-P. Boeuf, University of Toulouse, France

**Project:** Double Layers in the Solar Corona
**Partner:** Professor E. Marsch, Max Planck Institut, Göttingen, Germany

**Project:** rf Phase Effects in Plasma Sources
**Partners:** Professor D. McKenzie, Professor M. Bilek and Dr Y. Bin, University of Sydney

Professor P.J. Bouwknegt and Dr A. Flournoy
**Project:** Mathematical Foundations of String Theory, in Particular the Study of Symmetries (Dualities) and Underlying Generalizations of Geometry. Gerbes. Twisted K-Theory
**Partners:** Associate Professor V. Mathai and Dr H. Sati, University of Adelaide; Dr K. Hannabuss, Oxford University, UK; Dr J. Evslin, University of Brussels, Belgium; Dr B. Jurco, University of Munich, Germany; Professor K. Pilch, University of Southern California, USA

**Dr J.E. Bradby**
**Project:** International Partnership Program
**Partner:** University of Michigan, USA

**Professor S.J. Buckman**
**Project:** Positron Interactions with Atoms and Molecules
**Partners:** Professor C. Surko, University of California at San Diego, USA; Professor G.F. Gribakin, Queens University of Belfast, Israel

**Project:** Near-threshold Excitation of Helium
**Partners:** Professor K. Bartschat, Drake University, USA; Professor I. Bray and Professor A.T. Stelbovics, Murdoch University

**Project:** Centre for Antimatter-Matter Studies
**Partners:** Professor M. Brunger and Professor P.J.O. Teubner, Flinders University; Professor J. Williams, University of Western Australia; Professor B. Lohmann, Griffith University; Dr S. Smith, ANSTO; Professor I. Bray and Professor A.T. Stelbovics, Murdoch University; Professor C. Surko, University of California at San Diego, USA; Dr T. Rescigno, Lawrence Berkeley Laboratory, USA; Professor A. Orel and Professor B. McCurdy, University of California at Davis, USA; Professor K. Bartschat, Drake University, USA; Professor P. Burrow, University of Nebraska, USA; Professor Y. Nagai, Tohoku University, Japan; Professor N. Mason, Open University, UK

**Project:** Electron Collisions with Atoms and Molecules
**Partners:** Professor H. Tanaka, Sophia University, Japan; Professor H. Cho, Daejeon National University, Korea

**Dr M. Buda**
**Project:** DFB Lasers
**Partners:** Dr T.G. van de Roer and Professor Dr G.A. Acket, Eindhoven University of Technology, Netherlands

**Professor A.P. Byrne**
**Project:** Ion Implanter for Radioisotopes
**Partner:** Dr H. Timmers, ADFA, University of New South Wales

**Project:** Superallowed Fermi Decays
**Partner:** Associate Professor P.H. Barker, University of Auckland, New Zealand

**Professor A.P. Byrne and Dr M.C. Ridgway**
**Project:** PAC Studies of Materials
**Partner:** Dr R. Vianden, Universität Bonn, Germany
**Project:** Materials Modification by Swift Heavy Ion Irradiation  
**Partner:** Professor W. Wesch, University of Jena, Germany

**Dr C. Charles and Professor R.W. Boswell**  
**Project:** Plasma Deposition of Palladium  
**Partners:** Dr A.L. Thomann and Dr P. Brault, Centre National de Recherché Scientifique, France

**Project:** Helicon Source Modelling  
**Partner:** Professor M. Lieberman, University of California at Berkeley, USA

**Project:** Laser Induced Fluorescence Analysis of Double Layers  
**Partner:** Professor E. Scime, University of West-Virginia, USA

**Project:** Deposition of Platinum for Fuel Cell Electrodes  
**Partner:** Dr P. Brault, Centre National de Recherché Scientifique, France

**Project:** Helicon Double Layers  
**Partner:** Professor A. Fredriksen, University of Tromsø, Norway

**Dr C. Charles, Professor R.W. Boswell and Dr O. Sutherland**  
**Project:** Helicon Double Layer Thruster  
**Partner:** European Space Agency

**Dr Y. Chen**  
**Project:** Synthesis of C and BN Nanotubes Using Mechano-thermal Process  
**Partner:** Dr J. Fitzgerald, Research School of Earth Sciences, Australian National University

**Project:** Microanalysis of BN Nanotubes  
**Partner:** Dr J. Zou, University of Queensland

**Project:** Mossbauer Analysis of Nanotubes  
**Partner:** Professor G. Le Caer, University of Rennes, France

**Project:** Mossbauer Study of Metal Catalysts for Nanotube Growth  
**Partner:** Professor S. Campbell, ADFA, University of New South Wales

**Dr S.H. Chung**  
**Project:** Controlled Adaptive Brownian Dynamics for Modelling Ion Channels  
**Partner:** Professor V. Krishnamurthy, University of British Columbia, Canada

**Ms V.A. Coleman, Ms P. Lever, Ms K. Stewart, Mr S. Barik, Dr H.H. Tan, Professor J.S. Williams and Professor C. Jagadish**  
**Project:** Cathodoluminescence Studies of Semiconductor Epitaxial Layers and Quantum Structures  
**Partner:** Professor M.R. Philips, University of Technology, Sydney
Ms V.A. Coleman, Dr H.H. Tan, Dr S.O. Kucheyev, Professor J.S. Williams and Professor C. Jagadish  
**Project:** Ion Beam Processing of Zinc Oxide  
**Partners:** Professor M. Yano and Professor M. Inoue, Osaka Institute of Technology, Japan

Dr V.S.J Craig  
**Project:** Boundary Slip in Newtonian Liquids  
**Partners:** Professor H.-J. Butt and Dr E. Bonacurso, Max Plank Institute for Polymers, Mainz, Germany

**Project:** Nanobubbles and Biomolecule Adsorption  
**Partner:** Professor H. Jun, Chinese Academy of Sciences, China

**Project:** An AFM Study of the Interaction between Adsorbed PEO Layers  
**Partners:** Dr L. Meagher, CSIRO, Melbourne; Mr S. McLean, Ms H. Lioe and Associate Professor M. Gee, University of Melbourne

Dr T.D.M. Dall  
**Project:** Heavy Ion Stopping in Solids  
**Partners:** Professor H.J. Whitlow and Dr K. Strenstrom, University of Lund, Sweden; Dr H. Timmers and Mr S. Shrestha, ADFA, University of New South Wales; Associate Professor D.J. O'Connor, University of Newcastle

Dr M. Dasgupta  
**Project:** Quantum Tunnelling in Nuclear Fusion  
**Partners:** Dr K. Hagino, Kyoto University, Japan; Professor N. Rowley, Strasbourg University, France

Dr M. Dasgupta and Professor D.J. Hinde  
**Project:** Fusion with Radioactive $^{14}$O  
**Partners:** Professor S. Kubono and Dr H. Yamaguchi, University of Tokyo, Japan

**Project:** Reaching the Superheavy Elements  
**Partners:** Dr F. Liang, Oak Ridge National Laboratory, USA; Dr K.-H. Schmidt, Gesellschaft für Schwerionenforschung, Germany

Dr A.S. Desyatnikov  
**Project:** Counterpropagating Beams in Biased Photorefractive Crystals: Anisotropic Theory  
**Partners:** Dr K. Motzek and Professor F. Kaiser, Darmstadt University of Technology, Germany; Professor M. Belic, Texas A&M University, USA and Institute of Physics, Belgrade, Serbia; Mr T. Richter, Mr Ph. Jander and Professor C. Denz, Westfälische Wilhelms-Universität Münster, Germany

**Project:** Two-dimensional Solitons with Hidden and Explicit Vorticity in Bimodal Cubic-quintic Media  
**Partners:** Professor D. Mihalache and Professor D. Mazilu, Institute of Atomic Physics, Bucharest, Romania; Professor B.A. Malomed, Tel Aviv University, Israel; Professor C. Denz, Westfälische
Wilhelms-Universität Münster, Germany; Professor F. Lederer, Friedrich-Schiller Universität Jena, Germany

Dr A.S. Desyatnikov and Professor Yu.S. Kivshar
Project: Optical Vortices and Vortex Solitons
Partner: Professor L. Torner, Universitat Politencica de Catalunya, Spain

Dr A.S. Desyatnikov, Dr D.N. Neshev and Professor Yu.S. Kivshar
Project: Nonlinear Photonic Lattices in Anisotropic Nonlocal Self-focusing Media
Partners: Ms N. Sagemerten, Mr D. Träger, Mr J. Jägers and Professor C. Denz, Westfälische Wilhelms-Universität Münster, Germany; Dr Y.V. Kartashov, Universitat Politencica de Catalunya, Spain

Dr A.S. Desyatnikov, Dr D.N. Neshev, Professor W. Krolikowski and Professor Yu.S. Kivshar
Project: Focusing and Correlation Properties of White-light Optical Vortices
Partners: Dr V. Shvedov and Professor A. Volyar, Taurida National University, Ukraine

Professor R.L. Dewar and Mr R.F. Abdullatif
Project: Variational Principle for Nonlinear Drift Wave Dynamics
Partners: Dr F.L. Waelbroeck and Dr P.J. Morrison, University of Texas at Austin, USA

Professor R.L. Dewar and Dr M.J. Hole
Project: Existence and Stability of a Model for Three-dimensional Toroidal Plasma Equilibria
Partner: Dr S.R. Hudson, Princeton University, USA

Professor R.L. Dewar and Dr B.G. Kenny
Project: Quantum Chaos in the Ideal-MHD Spectrum for Stellarators
Partners: Dr C. Nührenberg, Max Planck Institute for Plasma Physics, Germany; Professor Z. Yoshida, University of Tokyo, Japan; Dr T. Tatsuno, University of Maryland, USA; Professor R.S. MacKay, University of Warwick, UK

Professor R.L. Dewar, Dr R. Ball and Professor M.T. Batchelor
Project: ARC Research Network Application – Complex Open Systems Network (COSNet)
Partners: Professor C. Grebogi, University of Sao Paulo, Brazil; Professor R. MacKay, FRS University of Warwick, UK; and 42 participants from the Australian National University and other Australian universities

Professor R.L. Dewar, Dr R. Ball, Dr R. Numata, Dr J.S. Frederiksen and Mr M. Zidikheri
Project: Studies of Turbulence and Coherent Structures in Quasi Two-dimensional Plasmas and Fluids
Partner: Dr B.D. Scott, Max Planck Institute for Plasma Physics, Germany

Dr T. Di Matteo and Dr T. Aste
Project: Characterization of Collective Dynamics in Financial Markets and Complex Systems
Partner: Professor R. Mantegna, University of Palermo, Italy
**Project:** High-frequency Dynamics of Financial Markets (FISR) (funded by the Italian Ministry of Education Research and Technology)
**Partner:** Dr E. Scalas, University of Piemonte Orientale, Italy

**Project:** Relationships between the Structure of Social Networks and Productivity
**Partner:** Professor M. Gallegati, Università Politecnica delle Marche, Italy

**Project:** Multiscaling Behaviours in Financial Markets
**Partner:** Dr M.M. Dacorogna, Converium Ltd Zurich, Switzerland

**Dr T. Di Matteo, Dr T. Aste and Professor S.T. Hyde**
**Project:** European Union (EU) Project: COST P10 "Physics of Risk"
**Partner:** Professor P. Richmond, Trinity College, Ireland

**Professor G.D. Dracoulis**
**Project:** High-K Isomers
**Partners:** Professor P.M. Walker, University of Surrey, UK; Dr F.G. Kondev, Argonne National Laboratory, USA

**Project:** High-K Isomers in Deformed Nuclei near Stability
**Partners:** Dr F.G. Kondev and Dr R. Janssens, Argonne National Laboratory, USA

**Project:** Laser Spectroscopy of Deformed Isomers
**Partners:** Dr J. Billowes, University of Manchester, UK; Professor J.A.R. Griffith, University of Birmingham, UK; Dr P. Dendooven, University of Jyväskylä, Finland

**Professor G.D. Dracoulis and Dr T. Kibédi**
**Project:** Nuclear Structure in the N = 74 Region
**Partner:** Dr A.M. Bruce, University of Brighton, UK

**Professors G.D. Dracoulis, A.P. Byrne and Dr G.J. Lane**
**Project:** Realistic Shell Model Calculations for Trans-lead Nuclei
**Partner:** Professor A. Covello, University of Naples, Italy

**Project:** Neutron Rich Trans-lead Nuclei Using Radioactive Beams
**Partners:** Professor P.M. Walker, University of Surrey, UK; Dr G. de France, Grand Accelerateur National d'İons, Lourds, France

**Professor G.D. Dracoulis, Dr G.J. Lane and Professor A.P. Byrne**
**Project:** Spectroscopy of Neutron Deficient Lead and Thallium Nuclei
**Partner:** Dr A.O. Macchiavelli, Lawrence Berkeley National Laboratory, USA

**Professor G.D. Dracoulis, Dr G.J. Lane, Professor A.P. Byrne and Dr T. Kibédi**
**Project:** Shape Co-existence in Very Neutron-deficient Pb Nuclei
**Partners:** Dr J. Gerl, Gesellschaft für Schwerionenforschung, Germany; Dr A. Andreyev, University of Liverpool, UK
**Professor R.G. Elliman**

**Project:** Optical Gain in Silicon Nanocrystals  
**Partners:** Professor P. Fauchet and Mr J. Ruan, University of Rochester, USA; Professor A. Polman, Foundation for Fundamental Research on Matter, Amsterdam, The Netherlands.

**Project:** Semiconductor Nanocrystal Memory Devices  
**Partners:** Mr K.H. Cho, Professor W.-C. Yang and Professor H.Y. Cho, Dongguk University, Korea; Professor S.-H. Choi, Kyung Hee University, Korea; Dr C.J. Park, Dr J.H. Han and Dr C. Kim, Samsung Electronics, Korea

**Project:** Mechanical Properties of Silicon Nanostructures  
**Partners:** Mr K.R. Virwani and Professor A.P. Malshe, University of Arkansas, USA; Professor D.K. Sood, Royal Melbourne Institute of Technology, Melbourne

**Project:** Ion Beam Modification of Carbon Nanostructures  
**Partner:** Dr P. Papakonstantinou, University of Ulster at Jordanstown, Northern Ireland

**Project:** Ion Beam Mixing of Metallic Thin Films on Ceramic Substrates  
**Partner:** Dr A. Balogh and Mr S. Gottschalk, Darmstadt University of Technology, Germany

**Professor R.G. Elliman and Dr T.D.M. Dall**  
**Project:** Heavy-ion Beam Analysis of Materials  
**Partner:** Dr H. Timmers, ADFA, University of New South Wales

**Project:** Silicon Based Photonic Devices and Structures  
**Partner:** Professor J. Linnros, Royal Institute of Technology, Stockholm, Sweden; Dr J. Valenta, Charles University, Czech Republic; Professor E. Krausz, Research School of Chemistry, Australian National University

**Professor L.K. Fifield and AMS Group**  
**Project:** Dating of Marine Cores with Carbon-14  
**Partners:** Dr P. De Deckker and Dr B. Opdyke, Department of Earth and Marine Sciences, Australian National University

**Project:** Measurement of Erosion Rates at a Range of Scales in the Australian Landscape Using in situ Produced $^{10}$Be  
**Partner:** Professor J. Chappell, Research School of Earth Sciences, Australian National University

**Project:** Landscape Evolution in the Southern Highlands Region of NSW Using $^{10}$Be Deposited from the Atmosphere  
**Partner:** Professor R. Wasson, Centre for Resource and Environmental Studies, Australian National University

**Project:** Studies of Meteorites Using Cosmogenic Isotopes  
**Partner:** Professor G. Herzog, Rutgers University, USA
Project: Dating of Ice in Temperate-region and Polar Glaciers with $^{32}\text{Si}$  
Partners: Dr U. Morgenstern and Dr A. Zondervan, Geological and Nuclear Sciences, New Zealand

Project: Tracing Releases of Plutonium from Nuclear Processing Plants in Russia  
Partners: Professor D. Oughton, Dr L. Skipperud and Dr O. Lind, Norwegian University of Life Sciences, Norway; Dr W. Standring, Norwegian Radiation Protection Authority, Norway

Project: Tracing of Groundwater Flow and Mixing in a Number of Australian Aquifer Systems  
Partners: Dr R. Habermehl and Dr J. Kellett, Bureau of Rural Sciences; Dr R.G. Cresswell, CSIRO

Project: Tracing of Groundwater Flow in a Natural analogue of a Nuclear Waste Repository Using $^{36}\text{Cl}$  
Partners: Dr Y. Mahara, Abiko Research Laboratory, Japan; Dr R. Habermehl, Bureau of Rural Sciences; Dr R.G. Cresswell, CSIRO

Project: Exposure Dating of Glacial Landforms in Scotland, and Lava Flows in Hawaii  
Partners: Professor J. Stone, University of Washington, USA; Professor C. Ballantyne, University of St. Andrews, Scotland

Project: Calibration of the Cosmic-ray Production of Chlorine-36 on Iron in Surface Rocks  
Partner: Professor J. Stone, University of Washington, USA

Project: Plutonium as a Tracer of Soil Movement  
Partner: Dr G. Hancock, CSIRO Land and Water

Project: Plutonium Measurements by AMS at Low Energy  
Partner: Dr L. Wacker, Eidgenössische Technische Hochschule Zürich, Switzerland

Project: S.E. Australian Coastal Rock Platforms – When and How Were They Found?  
Partner: Professor J. Stone, Washington State University, USA

Mr R. Fischer  
Project: Dark Soliton Interactions  
Partner: Professor J. Hickmann, Universidade Federal de Alagoas, Brazil

Professor N.H. Fletcher  
Project: The Acoustics of the Didjeridu  
Partners: Associate Professor L. Hollenberg, Melbourne University; Professor J. Wolfe and Dr J. Smith, University of New South Wales

Project: Acoustics of Birdsong  
Partners: Professor R.A. Suthers, Indiana University, USA; Dr T. Riede, Humboldt University, Germany; Dr G.J.L. Beckers, Leiden University, The Netherlands

Project: Flute Acoustics
Partner: Mr T. McGee, Australian Flutemaker, Canberra

Mr M. Fraser, Dr M. Gao, Dr L. Fu, Dr H.H. Tan and Professor C. Jagadish
Project: THz Spectroscopy of Compound Semiconductors
Partners: Dr M. Johnston and Dr L. Hertz, Oxford University, UK

Dr L. Fu and Professor C. Jagadish
Project: Analysis of Semiconductor and Insulating Thin Films by XPS
Partners: Dr B. Gong and Professor R. Lamb, University of New South Wales

Dr L. Fu, Dr H.H. Tan, Dr M. Buda and Professor C. Jagadish
Project: Optoelectronic Devices
Partner: Dr F. Karouta, Eindhoven University of Technology, The Netherlands

Mr Q. Gao, Ms P. Lever, Ms V.A. Coleman, Ms K. Stewart, Ms S. Mokkapati, Mr S. Barik, Dr L. Fu, Dr J. Wong-Leung, Dr M. Buda, Dr H.H. Tan and Professor C. Jagadish
Project: Optical Spectroscopy of Semiconductor Quantum Structures and Devices
Partners: Mr P. Reece, Dr B.Q. Sun, Dr M. Zhang and Professor M. Gal, University of New South Wales

Dr S.T. Gibson
Project: (ACCESS) Australian Centre for Enabling Molecular Sciences
Partners: Dr E. Bieske and Dr R. O'Hair, University of Melbourne; Dr M. Brunger and Dr W. Lawrance, Flinders University; Dr M. Buntine and Dr G. Metha, Adelaide University; Dr M. Collins, Research School of Chemistry, Australian National University; Dr J. Gascooke, Adelaide University; Dr P. Gill, Dr M. Jordan, Dr S. Kable, Professor L. Radom and Dr T. Schmidt, Sydney University; Dr D. McNaughton and Dr E. Robertson, Monash University; Dr B. Yates, University of Tasmania

Project: (NSAA) Photoabsorption Cross Sections in the Ultraviolet for Planetary Atmospheres Applications
Partners: Professor G. Stark, Wellesley College, USA; Dr P.L. Smith, Harvard-Smithsonian Center for Astrophysics, USA

Dr S.T. Gibson and Professor B.R. Lewis
Project: Remote Sensing of the Thermosphere.
Partner: Professor R.R. Meier, George Mason University, USA

Project: Photodissociation Mechanisms for Excited Electronic States of Molecular Nitrogen
Partners: Professor W. Ubachs, Vrije Universiteit, The Netherlands; Professor G. Stark, Wellesley College, USA; Professor H. Lefebvre-Brion, Université Paris-Sud, France

Dr M. Gulacsi
Project: Effects of Phonons on Magnetic Impurities
Partners: Dr A.R. Bishop, Los Alamos National Laboratory, USA; Dr A. Bussmann-Holder, Max-Planck Institute, Stuttgart, Germany
Project: Correlation Effects in Kondo Lattice Models  
Partner: Dr I. McCulloch, Institute for Theoretical Physics, Aachen, Germany

Project: Stripe Formation in Two-Dimensional Lattices  
Partner: Professor Zs. Gulacsi, University of Debrecen, Hungary

Project: Anomalous Properties of Elemental Actinides  
Partners: Dr J.L. Smith and Dr M. Manley, Los Alamos National Laboratory, USA

Professor D.J. Hinde  
Project: Fission Dynamics  
Partner: Professor Y. Abe, Kyoto University, Japan

Professor D.J. Hinde and Dr M. Dasgupta  
Project: Double Folding Calculation of Nuclear Potentials  
Partner: Dr I.I. Gontchar, Omsk State Transport University, Russia

Project: Fusion of $^{16}$O with $^{174}$Yb  
Partners: Dr F. Liang and Dr D. Schapira, Oak Ridge National Laboratory, USA

Project: Breakup and Fusion of Stable and Radioactive Nuclei  
Partners: Dr M. Freer, University of Birmingham, UK; Professor J. Tostevin, University of Surrey, UK; Dr K. Hagino, Tohoku University, Japan

Project: Dynamics of Nuclear Fusion  
Partner: Dr K. Hagino, Tohoku University, Japan

Project: Fusion and Breakup in the Reaction of $^9$Be with $^{144}$Sm  
Partner: Professor P. Gomes, University Fluminense, Brazil

Dr J. Howard  
Project: Spectroscopic Studies of the Plasma Divertor in W7-AS  
Partners: Dr R. König and Mr J. Chung, Max Planck Institute for Plasma Physics, Germany

Project: Coherence Imaging on RFX Reversed Field Pinch  
Partner: Dr M. Valisa, Consorzio RFX, Padova, Italy

Project: Measurement of Electric Field in H-1NF Using Laser Induced Fluorescence Techniques  
Partners: Professor B.W. James and Mr D. Anduczyk, University of Sydney

Professor S.T. Hyde  
Project: Inorganic Self-assembly: Biomorph Growth  
Partners: Dr J.M. Garcia-Ruiz, Granada University, Spain; Professor W. Kunz, Regensburg University, Germany

Project: Electron Tomography of Copolymer Mesophases
**Partner:** Professor H. Hasegawa, Kyoto University, Japan

**Project:** Crystalline Networks and Tiling Theory
**Partner:** Professor M. O'Keeffe, Arizona State University, USA

**Project:** Tricontinuous Morphologies for Mikto-arm Copolymers
**Partner:** Dr C. Oguey, Université Cergy-Pontoise, France

**Project:** Topological Analysis of Protein Folds
**Partner:** Dr Y. Nagai, Kokushikan University, Japan

**Project:** Cubic Membranes in Vivo
**Partner:** Dr Y. Deng, National University of Singapore, Singapore

**Dr R.A. Jarvis**
**Project:** e-beam Irradiation of Chalcogenide Films
**Partner:** Dr S. Garcia Blanco, University of Toronto, Canada

**Project:** Raman Spectroscopy of Chalcogenide Films
**Partner:** Professor K. Richardson, University of Central Florida, USA

**Dr A.S. Kheifets**
**Project:** Convergent Close-coupling Theory of Double Ionization by Photon and Electron Impact
**Partner:** Dr I. Bray, Murdoch University

**Project:** Electron Impact Double Ionization of the Helium Atom
**Partner:** Dr A. Dorn, Max-Planck Institute for Nuclear Physics, Germany

**Project:** Theoretical and Experimental Studies of Double Photoionization of He and H₂
**Partner:** Dr L. Avaldi, Consiglio Nazionale delle Ricerche, Italy

**Project:** Theory of Electron Correlations in Solids
**Partner:** Dr F. Aryasetiawan, Research Institute for Computational Sciences, Japan

**Dr T. Kibédi and Professor G.D. Dracoulis**
**Project:** Internal Conversion Electron Spectroscopy of ⁰⁺ States
**Partners:** Dr S. Yates, University of Kentucky, USA; Dr P. Garrett, Lawrence Livermore Laboratory, USA; Dr R. Julin, University of Jyväskylä, Finland

**Project:** Tables of Prolate Deformed Nuclear K-isomers
**Partner:** Dr F.G. Kondev, Argonne National Laboratory, USA

**Dr T. Kibédi and Dr P.M. Davidson**
**Project:** Theoretical Conversion Coefficients and EO Electronic Factors
Partners: Dr T.W. Burrows, Brookhaven National Laboratory, USA; Dr M.T. Trzhaskovskaya, Petersburg Nuclear Physics Institute, Russia; Dr C.W. Nestor, Jr., Oak Ridge National Laboratory, USA

Professor Yu.S. Kivshar
Project: Discrete Solitons in Waveguide Arrays
Partner: Professor M. Molina, University of Chile, Chile

Project: Applications of the Frenkel-Kontova Model
Partner: Professor O. Braun, Institute of Physics, Kiev, Ukraine

Project: All-optical Circuits in Onlinear Photonic Crystals
Partner: Dr S. Mingaleev, University of Central Florida, USA

Professor Yu.S. Kivshar and Dr A.E. Miroshnichenko
Project: Engineering Fano Resonances in Nonlinear Systems
Partner: Dr S. Flach, Max Plank Institute for Complex Systems, Germany

Professor Yu.S. Kivshar and Dr I.V. Shadrivov
Project: Nonlinear Surface Waves in Left-handed Metamaterials
Partner: Professor A. Boardman, University of Salford, UK

Project: Goos-Haenchen Effect in Slabs of Metamaterials
Partner: Professor R. Ziolkowski, University of Arizona, USA

Professor Yu.S. Kivshar and Dr A.A. Sukhorukov
Project: Parametric Optical Conversion Due to Cascaded Nonlinearities
Partner: Professor S.M. Saltiel, University of Sofia, Bulgaria

Project: Stability Analysis of Solitary Waves
Partner: Professor D.E. Pelinovsky, McMaster University, Canada

Project: Discrete Solitons in Waveguide Arrays
Partners: Professor R. Morandotti, University of Quebec, Canada; Professor S. Aitchison, University of Toronto, Canada; Professor Y. Silberberg, Weizmann Institute of Technology, Israel

Project: Incoherent Gap Solitons
Partners: Dr K. Motzek and Professor F. Kaiser, Darmstadt University of Technology, Germany

Dr P. Kluth and Dr S. Kluth
Project: Defects and Diffusion in Si-Nanostructures
Partners: Professor S. Mantl, Dr J. Moers and Dr Q.-T. Zhao, Forschungszentrum Jülich, Germany

Professor W. Krolikowski
Project: Optical Beams in Nonlocal Nonlinear Media
Partners: Professor O. Bang, Technical University, Denmark; Professor J. Wyller, Norway Agricultural University, Norway; Professor J. Rasmussen, Riso National Laboratory, Denmark

Project: Localised Structure in Second Harmonic Generation
Partner: Professor M. Saffman, University of Wisconsin, USA

Project: Modulational Instability in Photorefractive Media
Partner: Professor Mark Saffman, University of Wisconsin, USA

Project: Photorefractive Solitons
Partner: Professor C. Denz, University of Münster, Germany

Project: Discrete Solitons
Partner: Professor F. Lederer, University of Jena, Germany

Project: No Local Solitons
Partner: Professor A. Dreischuh, University of Sofia, Bulgaria

Project: Soliton Effects in Optical Lattices.
Partner: Professor M. Trippebach, Warsaw University, Poland

Project: Singular Optics
Partner: Professor A. Volyar, Taurida National University, Ukraine

Dr G.J. Lane, Professor G.D. Dracoulis and Professor A.P. Byrne
Project: High-spin States and Shell Model Structure of Neutron-rich Nuclei near $^{208}$Pb
Partners: Professor R. Broda and Dr B. Fornal, Niewodniczanski Institute of Nuclear Physics, Poland; Professor K.-H. Maier, Hahn-Meitner-Institut, Germany

Project: Octupole Correlations and Particle Alignments in Neutron-rich Uranium Nuclei
Partners: Professor R. Broda and Dr B. Fornal, Niewodniczanski Institute of Nuclear Physics, Poland; Dr S. Zhu, Professor R.V.F. Janssens and Dr M. Carpenter, Argonne National Laboratory, USA; Dr A.O. Macchiavelli and Dr D. Ward, Lawrence Berkeley National Laboratory, USA

Ms P. Lever, Dr H.H. Tan and Professor C. Jagadish
Project: Optical Spectroscopy of Quantum Dots
Partner: Professor J. Wolter, Eindhoven University of Technology, The Netherlands

Professor J.D. Love
Project: Scanning Near-field Optical Microscopy
Partners: Dr S. Huntington and Dr B. Gibson, University of Melbourne; Dr V. Steblina, VA FutureTech Consulting Pty Ltd, Sydney

Project: Propagation in Practical Multimode Fibres and Devices
Partners: Professor D. Abrahams and Dr E. Perrey-Debain, University of Manchester, UK
Project: Undergraduate Text Book on Optical Fibres, Waveguides and Devices
Partners: Associate Professor F. Ladouceur, University of New South Wales; Dr F.P. Payne, University of Oxford, UK

Professor J.D. Love and Dr A. Ankiewicz
Project: Multimode Waveguides and Devices
Partner: Redfern Polymer Optics

Dr J.C.A. Lower
Project: Electron-impact-induced Ionization of Heavy Atoms
Partner: Professor D. Madison, University of Missouri-Rolla, USA

Project: Measurement of Multi-particle Fragmentation Processes
Partner: Dr A. Dorn, Max-Planck-Institute for Nuclear Physics, Germany

Project: Spin Effects in Inner Shell Atomic Ionization
Partner: Professor C.T. Whelan, Old Dominion University, USA

Project: Electron Impact-induced Ionization/Excitation of Helium
Partner: Professor K. Bartschart, Drake University, USA

Professor B. Luther-Davies
Project: Highly Oriented Nanostructures of Nonlinear Optical Materials for Applications in Polarized Light Emitting Diodes and Optical Devices.
Partner: Dr H.B. Schulz, Potsdam University, Germany

Professor B. Luther-Davies and Professor W. Krolikowski
Project: Centre of Excellence for Ultrahigh Bandwidth Devices for Optical Systems
Partners: University of Sydney; Macquarie University; University of Technology, Sydney; Swinburne University of Technology; NSW State Government through Department of State and Regional Development; CSIRO; Osaka University, Japan; University of Central Florida, USA; Lucent Technologies, USA; Institut Fresnel, France

Professor B. Luther-Davies and Ms A. Smith
Project: Production of Bulk Samples of Novell Chalcogenide Glasses
Partner: Professor K. Richardson, University of Central Florida, USA

Professor N.B. Manson and Dr M. Sellars
Project: Quantum Computing Using the Nitrogen-vacancy Centre in Diamond
Partners: Professor M. Scully and Professor P. Hemmer, T & M University, USA, Dr D. Pulford, DSTO, Canberra; Professor S. Prawer, University of Melbourne

Mr A. Matthews
Project: Microexplosion Fabrication of Photonic Crystals
Partners: Dr G. Zhou and Professor M. Gu, Swinburne University
Dr F.P. Mills
Project: Photochemical Modeling of the Venus Middle Atmosphere
Partners: Dr M. Allen, NASA Jet Propulsion Laboratory, USA; Professor Y.L. Yung, California Institute of Technology, USA

Project: Excited State Oxygen Chemistry in the Venus Atmosphere
Partner: Dr T. Slanger, SRI International, USA

Project: Ultraviolet Characterization and Remote Sensing of Aerosols
Partners: Dr A. Eldering and Dr O. Kalashnikova, NASA Jet Propulsion Laboratory, USA; Dr D. Anderson and Dr B. Forgan, Bureau of Meteorology; Dr R. Mitchell, CSIRO

Project: Analysis and Modeling of OH Column Abundances
Partners: Dr S.P. Sander, Dr R.P. Cageao, and Dr M. Allen, NASA Jet Propulsion Laboratory, USA; Professor Y.L. Yung, California Institute of Technology, USA

Dr D.N. Neshev
Project: Optical Solitons and Vortices
Partner: Professor A. Dreischuh, Sofia University, Bulgaria

Project: Topological Transformation of Discrete Vortices
Partner: Professor Z. Chen, San Francisco State University, USA

Project: Nonlocal Dark Solitons
Partner: Professor O. Bang, Technical University of Denmark, Denmark

Dr C. Neto
Project: Fingering Instability in Thin Liquid Films
Partner: Professor K. Jacobs, Saarland University, Germany

Project: Characterisation of Magnetic Nanoparticles
Partners: Dr M. Bonini and Professor P. Baglioni, University of Florence, Italy

Project: Model for Boundary Slip in Newtonian Liquids
Partner: Dr J. Sader, University of Melbourne

Dr E. Ostrovskaya and Ms B. Dabrowska
Project: Finite Temperature Effects in the Dynamics of Bose-Einstein Condensates in Optical Lattices
Partners: Dr M. Davis and Dr A. Bradley, University of Queensland

Dr M.C. Ridgway, Dr C.J. Glover and Dr S. Kluth
Project: EXAFS Characterisation of Amorphous Semiconductors
Partners: Dr G. de Azevedo, Laboratorio Nacional de Luz Sincrotron, Brazil; Dr K.M. Yu, Lawrence Berkeley National Laboratory, USA; Dr G.J. Foran, ANSTO
**Project:** Formation of Dilute GaAs$_x$N$_{1-x}$ and Ga$_x$Mn$_{1-x}$As Alloys by Ion Implantation  
**Partners:** Dr O. Dubon, University of California at Berkeley, USA; Dr K.M. Yu, Lawrence Berkeley National Laboratory, USA

**Project:** Laser Annealing of Ion-implanted Semiconductors  
**Partner:** Professor M. Rao, George Mason University, USA

**Dr M.C. Ridgway, Dr R. Dogra and Professor A.P. Byrne**  
**Project:** Pd-defect and Pd-dopant Characterisation with Perturbed Angular Correlation  
**Partner:** Dr R. Vianen, University of Bonn, Germany

**Dr M.C. Ridgway and Professor J.S. Williams**  
**Project:** Nanocavity Evolution in Si under Ion Irradiation  
**Partners:** Professor H. Bernas, Dr M.-O. Ruault and Dr F. Fortuna, Centre National de Recherché Scientifique, France

**Dr M.C. Ridgway, Dr C.J. Glover and Dr P. Kluth**  
**Project:** EXAFS Characterisation of Semiconductor and Metallic Nanocrystals  
**Partners:** Dr G. de Azevedo, Laboratorio Nacional de Luz Sincrotron, Brazil; Dr G.J. Foran, ANSTO

**Dr M.C. Ridgway, Dr S. Kluth and Dr C.J. Glover**  
**Project:** Implantation-induced Amorphisation of Ternary Semiconductors  
**Partner:** Professor W. Wesch, Friedrich-Schiller University, Germany

**Dr B.A. Robson**  
**Project:** Antiproton Scattering  
**Partner:** Professor Y.S. Zhang, Institute of High Energy Physics, P.R. China

**Project:** Deuteron-deuteron Elastic Scattering  
**Partner:** Professor Y.S. Zhang, Institute of High Energy Physics, P.R. China

**Project:** Fusion  
**Partners:** Dr B. Giraud, Service de Physique Theorique, CEA Sacaly, France; Dr K.A. Amos and Dr S. Karataglidis, University of Melbourne

**Professor R.E. Robson**  
**Project:** Low Energy Charged Particles in Atomic and Molecular Gases  
**Partner:** Professor M. Morrison, University of Oklahoma, USA

**Project:** Electron and Positron Transport in Gaseous and Condensed Matter  
**Partner:** Dr R.D. White, James Cook University

**Dr A.V. Rode**  
**Project:** Characterization and Analysis of Ultrashort Laser-matter Interaction at Low and Medium Laser Intensities
Partners: Laboratoire d'Optique Appliquée, Palaiseau, France; Centre Lasers Intenses et Applications, Bordeaux, France; The Lasers, Plasmas, and Photonic Processes Laboratory, University Aix Marseille-II, France

Project: 100-W Laser System for Ultra-fast Pulsed Laser Deposition
Partners: Dr J. Giesecus and Mr M. Duering, Fraunhofer Institute for Laser Technique, Germany

Project: Boron Nitride Nanostructures Formed by the High Repetition-rate Laser Ablation
Partners: Dr D. Golberg and Professor Y. Bando, National Institute for Material Science, Japan

Project: Magnetic Properties of Laser-deposited Carbon Nanofoam
Partners: Dr J. Giapintzakis, Foundation for Research and Technology-Hellas, Greece; Dr D. Tomanek, Michigan State University, USA

Project: Sub-picosecond Laser Deposition of Optical Films
Partner: Professor B.N. Chickov, Laser Zentrum Hannover e.V., Germany

Project: Recording and Reading of Three-dimensional Memory in Glasses
Partners: Professor H. Mizawa and Dr S. Juodkazis, University of Tokyo, Japan

Project: Structural Characterisation of Carbon Nanoclusters
Partner: Professor D. Gomberg, National Institute for Materials Science, Japan

Project: Electronic and Magnetic Properties of Carbon Nanostructures Produced by Laser Ablation
Partner: Professor D. Arcon, University of Ljubljana, Slovenia

Project: Structural Investigation of Carbon Nanofoam
Partner: Associate Professor D. McCulloch, Royal Melbourne Institute of Technology

Dr A. Samoc
Project: Investigations of Second-order Nonlinear Optical Effects in Polymer Films
Partners: Dr A. Holland and Dr A. Mitchell, Royal Melbourne Institute of Technology

Project: SHG Monitoring of Dipolar Orientation and Relaxation in Disperse Red Type/Derivative Urethane-urea Copolymer
Partners: Dr M. Tsuchimori and Dr O. Watanabe, Toyota Central R & D Laboratories, Japan

Project: Orientation of Nonlinear Optical Chromophores in Polymer Fibres Investigated in Hyper-Rayleigh Scattering Geometry Using Femtosecond Pulses
Partner: Dr M. S. Wong, Baptist University of Hong Kong, Hong Kong

Project: Induced and Permanent Second-order Nonlinear Optical Effects in Molecular Materials
Partner: Professor S. Schrader, Wildau Technical University, Germany

Dr A. Samoc and Dr M. Samoc
Project: Crystal Structure of the Second Order Nonlinear Optical Addition Complex AsI₃*3S₈"
Partners: Dr E.R. Krausz and Dr A.C. Willis, Research School of Chemistry, Australian National University

Dr A. Samoc, Dr M. Samoc and Professor B. Luther-Davies
Project: Nonlinear Optical Properties of Soluble Oligomers of PPV
Partner: Dr M.S. Wong, Baptist University, Hong Kong

Project: Third-order Optical Nonlinearities of Oligomers, Dendrimers and Polymers Derived from Solution Z-scan Studies
Partner: Dr M. Humphrey, Department of Chemistry, Australian National University

Project: Synthesis and Third-order Nonlinear Optical Properties of End-functionalized Oligophenylenevinylene
Partner: Dr M.S. Wong, Baptist University, Hong Kong

Dr M. Samoc
Project: Nonlinear Optics and Nanophotonics
Partner: Professor P.N. Prasad, State University of New York at Buffalo, USA

Project: Nonlinear Properties of Evaporated Films of Disperse Red
Partner: Professor M.O. Tjia, Bandung Institute of Technology, Indonesia

Dr M.G. Shats
Project: Two-dimensional Turbulence
Partner: Professor J. Soria, Monash University

Project: Confinement Studies in Stellarators
Partner: Professor K. Toi, National Institute for Fusion Science, Japan

Project: Turbulent Structures and Transport in Plasmas
Partner: Dr D. Rudakov, University of California at San Diego, USA

Ms K. Stewart, Dr L. Fu, Dr M. Buda, Dr H.H. Tan and Professor C. Jagadish
Project: Tuning of Detection Wavelength of Quantum Dot Infrared Photodetectors
Partners: Dr A. Stiff-Roberts and Professor P. Bhattacharya, University of Michigan, USA

Dr M. Sellars and Dr J. Longdell
Project: Investigation of EIT and Slow Light
Partner: Professor P. Hemmer, Texas A & M, USA

Dr I.V. Shadrivov
Project: Left-handed Metamaterials
Partners: Professor A.A. Zharov, Dr N.A. Zharova, Dr A.N. Reznik and Dr M. Gorkunov, Russian Academy of Sciences, Russia; Professor S.A. Gredeskul, Ben-Gurion University, Israel

Dr A.E. Stuchbery
Project: Shell Model Configurations in the $2^+_1$ State in $^{46}$Ca from a g-factor Measurement

Partners: Dr M.J. Taylor, University of Brighton, UK; Professor N. Benczer-Koller, Rutgers University, USA; Dr L. Bernstein, Lawrence Livermore National Laboratory, USA; Dr M.A. McMahan, Lawrence Berkeley National Laboratory, USA; Professor K.-H. Speidel, Universität Bonn, Germany

Project: g-factor Measurements of First $2^+$ States of Heavy Te Isotopes Based on Nuclear Spin Deorientation for Nuclei Recoiling in Vacuum

Partners: Dr M. Danchev and Professor C.R. Bingham, University of Tennessee, USA; Professor N.J. Stone, Dr J.R. Stone and Ms C.L. Timlin, University of Oxford, UK; Dr J. Pavan, Dr C. Baktash, Dr J. Beene and Dr D.C. Radford, Oak Ridge National Laboratory, USA; Professor N. Benczer-Koller and Dr G. Kumbartzki, Rutgers University, USA; Professor N.V. Zamfir, Yale University, USA

Project: First Nuclear Moment Measurement with Radioactive Beams by the Recoil-in-vacuum Technique: The g Factor of the $2^+_1$ State in $^{132}$Te

Partners: Professor N.J. Stone, Dr J.R. Stone and Ms C.L. Timlin, University of Oxford, UK; Dr J. Pavan, Dr C. Baktash, Dr J. Beene and Dr D.C. Radford, Oak Ridge National Laboratory, USA; Dr M. Danchev and Professor C.R. Bingham, University of Tennessee, USA; Professor N. Benczer-Koller and Dr G. Kumbartzki, Rutgers University, USA; Dr C. Barton and Professor N.V. Zamfir, Yale University, USA; Dr J. Dupak, Institute of Scientific Instruments, Czech Republic

Project: Nuclear g Factors and Structure of High-spin Isomers in $^{190,192,194}$Pt and $^{196,198}$Hg

Partner: Dr A.I. Levon, Institute for Nuclear Research, Kiev, Ukraine

Dr A.E. Stuchbery and Professor A.P. Byrne

Project: Hydrofine Interactions Spectrometer

Partners: Associate Professor D.H. Chaplin, ADFA, University of New South Wales; Professor H.H. Bolotin, University of Melbourne

Dr A.E. Stuchbery and Dr A.N. Wilson

Project: Electron-configuration-reset-time-differential Recoil-in-vacuum Technique for Excited-state g-factor Measurements on Fast Exotic Beams

Partner: Professor P.F. Mantica, Michigan State University, USA

Dr A.E. Stuchbery, Dr A.N. Wilson and Dr P.M. Davidson

Project: Transient Fields for Mg Ions Traversing Gadolinium Hosts at Velocities above and below the K-shell Electron Velocity

Partners: Professor P. F. Mantica and Dr T.J. Mertzimekis, Michigan State University, USA

Project: Excited-state Configurations in $^{38}$S and $^{40}$S through Transient-field g-factor Measurements on Fast Fragments. (NSCL Experiment 02020)

Partners: Professor P.F. Mantica, Professor A.D. Davies and the NSCL Beta-NMR and Gamma Groups, Michigan State University, USA

Project: Gyromagnetic Ratios in $^{134}$Te and $^{136}$Te by the Recoil In Vacuum (RIV) Technique
Partners:  Dr M. Danchev, University of Tennessee, USA; Dr C. Baktash and the Holfield Radioactive Ion Beam Facility RIV g-factor Collaboration, Oak Ridge National Laboratory, USA

Dr A. Sukhorukov  
Project:  Discrete Self-trapping and Wave Transport  
Partners:  Dr S.V. Dmitriev, University of Tokyo, Japan; Professor P.G. Kevrekidis, University of Massachusetts, USA

Dr J.P. Sullivan  
Project:  Positron Processes in Materials Science and AMO Physics  
Partners:  Professor C. Surko and Professor T. Rescigno, University of California at Berkeley, USA; Dr Y. Nagai, Tohoku University, Japan

Project:  Positron Materials Beamline  
Partner:  Dr A. Hill, CSIRO

Dr H.H. Tan and Professor C. Jagadish  
Project:  Growth of InP-based Photodiodes and Photodetectors  
Partner:  Professor J. Campbell, University of Texas at Austin, USA

Project:  Thermionic Cooling in Semiconductors  
Partner:  Professor R. Lewis, University of Wollongong

Dr M. Vos  
Project:  Theory of Spectral Function of Solids  
Partner:  Dr F. Aryasetiawan, University of Tsukuba, Japan

Project:  Quantum Entanglement of Protons  
Partner:  Professor Dr C.A. Chatzidimitriou-Dreismann, Technische Universitêt Berlin, Germany

Project:  Electronic Structure of the Si-Cu Interface Studied by EMS  
Partner:  Ms K. Nixon, Flinders University

Project:  Elastic Scattering of Methane  
Partner:  Dr G. Cooper McMaster, University of Hamilton, Canada

Dr A.N. Wilson  
Project:  High-spin States in Nuclei with A=120 near the Proton Dripline  
Partner:  Dr J.F. Smith, Manchester University, UK

Dr A.N. Wilson and Dr P.M. Davidson  
Project:  Decay out of Superdeformed Bands in a Two-level Mixing Model  
Partner:  Professor B.R. Barrett, University of Arizona, USA

Project:  Decay out of Superdeformed Bands  
Partners:  Dr A.J. Sargeant and Professor M.S. Hussein, Universidade de Sao Paulo, Brazil
Dr A.N. Wilson, Dr P.M. Davidson, Professor G.D. Dracoulis and Professor A.P. Byrne  
**Project:** Superdeformation in Po Isotopes  
**Partners:** Dr R.A. Bark and Professor J.F. Sharpey-Schafer, iThemba Laboratories, South Africa; Professor H. Hübel and Dr S. Chmel, Universität Bonn, Germany; Dr R. Julin, Dr J. Uusitalo and Dr P.M. Jones, University of Jyväskylä, Finland

Dr A.N. Wilson, Dr P.M. Davidson, Professor G.D. Dracoulis, Professor A.P. Byrne and Dr G.J. Lane  
**Project:** Superdeformed $^{196}$Pb  
**Partners:** Professor H. Hübel and Dr A.K. Singh, Universität Bonn, Germany; Dr A. Korichi, Université Paris-Sud, Orsay, France

Dr J. Wong-Leung  
**Project:** Ion Implantation and Defect Studies in Silicon Carbide  
**Partners:** Professor B.G. Svensson, University of Oslo, Norway; Dr M. Linnarson, Royal Institute of Technology, Sweden; Professor David Cockayne, University of Oxford, UK

Dr J. Wong-Leung, Dr H.H. Tan, Dr M. Gao, Ms V.A. Coleman, Professor J.S. Williams and Professor C. Jagadish  
**Project:** Electron Microscopy Study of Defects in Ion Implanted Semiconductors  
**Partners:** Dr J. Zou, University of Queensland; Dr J. Fitzgerald, Research School of Earth Sciences, Australian National University; Professor D.J.H. Cockayne, Oxford University, UK

Dr W.S. Woolcock  
**Project:** The Pion-nucleon System at Low Energies  
**Partners:** Dr E. Matsinos, Varian Medical Systems, Switzerland; Professor G.C. Oades, Aarhus University, Denmark; Professor G. Rasche, University of Zürich, Switzerland
Appendix – Grants and Contracts

ACT Knowledge Fund
Mr D. Ramdutt and Professor R.W. Boswell
Nanotiter Plate for Novel Cell Arrays
2005 $ 34,000

The Asian Office of Aerospace Research and Development (AOARD)
Conference Support
Professor J.D. Love
OSA Topical Meeting on Bragg Grating, Poling & Photosensitivity (BGPP)/Australian Conference on Optical Fibre Technology (ACOFT)
2005 $ 7,500

AusIndustry
Innovation Access Program
Professor J.S. Williams
Establishment of the Australian Materials Technology Network
2003 – 2006 $2,683,520

Australian Academy of Technological Sciences and Engineering (ATSE)
Professor S.J. Buckman, Dr J.P. Sullivan and Dr A. Hill
Anti-matter Matters: A Workshop on Positron Applications – From Atoms to Materials to Cells
2005 $ 35,640

Professor J.D. Love
14th International Workshop on Optical Waveguide Theory & Numerical Modelling (OWTNM)
2004 – 2005 $ 38,830

Australian Nuclear Science & Technology Organisation
Access to Major Research Facilities Program
Professor G.D. Dracoulis
Competition between Octupole and Multi-particle Excitation in Po-212 and At-213
2004 – 2005 $ 12,000

Dr M. Petravic
High Resolution EXAFS Characterisation of Nitrogen States in N-doped ZnO
2005 $ 11,300

Dr A.E. Stuchbery
Excited State Configurations in $^{38}\text{S}$ and $^{40}\text{S}$ through Transient Field g-Factor Measurements on Fast Fragments
2004 – 2005 $ 12,000

Australian Synchrotron Research Program – ANSTO Travel Grants
Dr P. Kluth
Ion Irradiated Induced Structural Changes in Metallic Nanocrystals Formed by Ion Beam Synthesis Studies with EXAFS
2005 $ 6,830

Dr P. Kluth
EXAFS Study of Metal Nanocrystals: Size Dependent Structural Properties and the Influence of Electronic Stopping of High Energy Ion Irradiation
2005 $ 6,830

Dr P. Kluth
SAXS/WAXS Analysis of Metal Nanocrystals Generated and Modified by Ion Implantation
2005 $ 9,540

Dr M.C. Ridgway
Amorphous Compound Semiconductors – Formation and Relaxation
2005 $ 9,699

Dr M.C. Ridgway
Amorphisation of Semiconductors by Swift Heavy-ion Irradiation
2005 $  6,680

**Australian Research Council (ARC) Grants and Awards**

**ARC Centres of Excellence Grants**

Dr K.G.H. Baldwin and Dr A.G. Truscott

*Australian Centre for Quantum-Atom-Optics (ACQAO)*

2003 – 2008 (ANU Total) ($10,950,000)

*RSPhysSE Project: Metastable BEC*

2003 – 2008 (RSPSE Share) $1,353,000

Professor S.J. Buckman, Dr J.P. Sullivan, et al

*ARC Centre of Excellence in Antimatter-Matter Studies (CAMS)*

2005 – 2009 $7,000,000

Professor Y. Kivshar

*ARC Centre of Excellence for Quantum-Atom Optics (ACQAO)*

2003 – 2008 (ANU Total) ($10,950,000)

*RSPhysSE Project: Optical Lattices*

2003 – 2008 (RSPSE Share) $ 719,000

Professor Y.S. Kivshar, Dr W. Krolikowski and Professor B. Luther-Davies

*Centre for Ultrahighband Devices for Optical Systems (CUDOS)*

2003 – 2007 (ANU Total) ($11,513,850)

2003 – 2007 (RSPSE Share) $2,967,000

University of Queensland Total $6,380,544

Dr Y. Chen (ANU Participant)

*Australian Centre for Functional Nanomaterials*

2003 – 2007 (ANU Share) $ 452,256

**ARC Discovery Project Grants**

Professor N.N. Akhmediev
Multi-soliton Complexes
2003 – 2005 $ 245,000

Dr T. Aste and Dr T.J. Senden
Granular Materials in 3D: Structural, Mechanical and Dynamic Properties from the Grain-scale and Beyond
2004 – 2006 $ 294,000

Professor R.W. Boswell and Dr C. Charles
Development of New Membrane-electrode Assemblies for Low Temperature Fuel Cells
2005 – 2007 $ 898,000

Dr B.D. Blackwell and Dr M. Hegland
High-performance Computational Data-mining Techniques for Feature Detection in Complex Time Series from Large-scale, Networked Plasma Experiments
2004 – 2006 $ 195,000

Professor P.G. Bouwknegt and Dr M. Varghese
Global Aspects of Dualities in String Theory in the Presence of Background Fluxes
2004 – 2006 $ 258,000

Professor S.J. Buckman
Electron Collision Studies with Laser-cooled Metastable Helium-recoil Atom Spectroscopy
2003 – 2005 $ 265,000

Professor S.J. Buckman and Dr J. Lower
A Microscope for Molecular Reactions
2003 – 2005 $ 245,000

Dr M. Buda
Asymmetric InP-based Structures for High Power Laser Diodes at 1400-1500 nm for Pumping Optical Amplifiers Used in Communication Systems
2003 – 2006 $ 165,000
Professor J. Chappell and Dr T. Esat (administered by RSES)

*Millenial-scale Instability of Sea Level and the Climate System: New Analysis of Coral Terraces in Papua New Guinea*

2003 – 2005  
($ 295,000)

Professor J. Chappell, Dr M. Honda, Dr D. Fabel and Dr L.K. Fifield (administered by RSES)

*Production and Transport of Soil and Sediments, Determined by Cosmogenic Radionuclides and Noble Gases*

2003 – 2005  
($ 295,000)

Dr Y. Chen and Professor L.T. Chadderton

*Formation Mechanism and Controlled Growth of Carbon Nanotubes*

2004 – 2006  
$ 280,000

Professor R.L. Dewar and Dr R. Ball

*Studies of Turbulence and Coherent Structures in Quasi Two-dimensional Plasmas and Fluids*

2003 – 2007  
$ 605,000

Professor R.L. Dewar and Dr S. Hudson

*Existence and Stability of a Model for Three Dimensional Toroidal Plasma Equilibria*

2004 – 2006  
$ 255,000

Dr T. Di Matteo

*Physics of Risk: New Tools to Survey the Australian Market and Beyond*

2005 – 2007  
$ 220,000

Professor G.D. Dracoulis, Professor A.P. Byrne, Dr T. Kibédi, Dr R.A. Bark, Professor P.M. Walker and Dr J. Gerl

*Isomers as Probes of Nuclear Structure and Sources of Energetic Protons*

2003 – 2005  
$ 402,000

Professor G.D. Dracoulis, Dr G. J. Lane and Dr T. Kibédi
**Characterising Nuclei Far from Stability**  
2004 – 2006 $240,000  
Professor R.G. Elliman and Dr J. Valenta

**Novel Silicon-based Photonic Device**  
2003 – 2005 $255,000  
Dr S.T. Gibson and Professor B.R. Lewis

**Reaction Transition States of Halide-cluster Complexes via Velocity-map Imaging of Photoelectrons**  
2004 – 2006 $300,000  
Professor J.H. Harris, Dr B.D.Blackwell, Dr J. Howard and Dr M.G. Shats

**Localised Instabilities in Magnetically Confined Plasmas Heated by Radio Waves**  
2003 – 2005 $162,000  
Professor D.J. Hinde, Dr M. Dasgupta and Dr K. Hagino

**Dynamics of Nuclear Fusion: Evolution through a Complex Multi-Dimensional Landscape**  
2003 – 2005 $575,000  
Professor D.J. Hinde, Dr M. Dasgupta, Dr M. Freer, Professor J.A. Tostevin and Dr K. Hagino

**Breakup and Fusion of Stable and Radioactive Nuclei**  
2005 – 2007 $609,000  
Professor C. Jagadish

**Fabrication and Monolithic Integration of II-V Semiconductor Photonic Devices using Impurity Free Interdiffusion**  
2003 – 2006 $510,000  
Professor C. Jagadish and Dr H.H. Tan

**Selective Area Growth of Semiconductor Quantum Dots for Optoelectronic Applications**  
2004 – 2006 $260,000  
Dr A.S. Kheifets
Two Electron Atomic Photo Ionization in Super Strong Electromagnetic Field
2004 – 2006 $ 225,000

Professor Yu.S. Kivshar

Left-handed Metamaterials and Negative Refraction
2005 – 2009 $1,036,308

Professor M.A. Knackstedt, Professor E. Seeman, Dr A.P. Roberts and Dr C.H. Arns

Assessing Bone Quality and Health: Experimental Imaging, Structural Characterisation, and Mechanical Modelling of Bone in 3D
2004 – 2006 $  425,000

Professor W. Krolikowski

Solitons and Localized Structures in Nonlocal Nonlinear Media
2004 – 2007 $  255,000

Professor B.R. Lewis

Quantum Mechanics and Planetary Atmospheres
2005 – 2007 $  300,000

Professor J.D. Love

Miniaturised Adiabatic Light Processing Devices
2004 – 2006 $  220,000

Dr J. Lower

Dynamic Correlations and Coherence Effects in Two-electron Emission Processes
2003 – 2006 $  380,000

Professor B. Luther-Davies and Dr R. Jarvis

Integrated Magneto-optic Waveguide Materials and Devices
2004 – 2007 $  400,000

Professor N. Manson and Dr M.J. Sellars
Storage of Nonclassical Light in a Solid
2003 – 2005 $ 265,000

Dr F.P. Mills

Photochemistry of the Middle Atmospheres of Venus and the Earth
2005 – 2007 $ 260,000

Dr C.R. Morton

Development of Advanced Detection Systems for Accelerator Mass Spectrometry
2004 – 2006 $ 200,000

Professor B. Ninham

Ionic Dispersion Forces in Physical Chemistry: Implications for pH, Electrochemistry, Nanoparticle Formation and Organic Synthesis
2003 – 2005 $ 270,000

Dr M. Petravic and Professor J.S. Williams

Nanocavities and Nanoparticles in Silicon-base Materials Tailored by Ion Bombardment
2003 – 2005 $ 350,000

Dr M.C. Ridgway

Amorphisation of Semiconductor and Elemental Metallic Nanocrystals by Ion Irradiation
2005 – 2007 $ 367,000

Dr A. Rode, Dr A. Christy and Professor B. Luther-Davies

Nanoclusters with Extraordinary Properties Made out of Ordinary Materials
2005 – 2007 $ 362,500

Dr M.C. Ridgway, Professor A.P. Byrne and Dr K.M. Yu

Atomic-scale Identification of Amorphisation and Relaxation Processes in Compound Semiconductors
2003 – 2005 $ 285,000
Dr A. Samoc and Dr M. Samoc
*Polymer Optical Fibres with Controlled Molecular Orientation for Photonic Applications*
2005 – 2007 $388,000

Dr M. Sellars
*Development of a Quantum Computer Based on Solid State Optical Impurity Sites*
2003 – 2005 $130,000

Dr A. Sheppard
*A Dynamic Pore-network Model for Fluid Displacements in Porous Media*
2005 – 2007 $268,000

Dr S.G. Tims, Professor L.K. Fifield, Dr G.J. Hancock, Dr R. Bartley and Dr P. Wallbrink
*Plutonium: A New Tracer of Sediment Transport into the Great Barrier Reef Lagoon*
2005 – 2007 $150,000

Dr M. Vos
*Quantum Entanglement of Protons*
2005 – 2007 $280,000

Dr M. Vos and Dr A.S. Kheifets
*Electron Momentum Spectroscopy of Correlated Nanoscale Structures*
2003 – 2005 $295,000

Dr D.R.M. Williams, Dr E.M. Sevick and Professor B.W. Ninham
*Salt, Sugar and Sequence: The Effect of Molecular Forces on Polymer Conformation*
2004 – 2006 $480,000

Professor J.S. Williams
*Nanoindentation-induced Phase Transformations and Physical Property Changes in Semiconductors*
2004 – 2008 $294,000

A.N. Wilson
Superdeformed Nuclei and their Decay: Challenging Nuclear Models and Probing Quantum Tunnelling

2004 – 2006 $140,000

University of New South Wales (Total grant $312,000)
Professor M.A. Knackstedt (ANU Partner)

Structures and Properties of Tissue Engineering Matrices for Cartilage and Bone: Imaging, Visualising and Modelling Tissue/Scaffold Constructs in 3D

2003 – 2005 (ANU share) $211,000

University of New South Wales (Total grant $288,000)
Dr A. Sakellariou (ANU Partner)

Growth of Bioartificial Tissue Containing an Inbuilt Blood Supply

2005 – 2007 (ANU share) $42,000

ARC Discovery Project Grants and Australian Postdoctoral Fellowships

Dr C. Arns

Transport Properties from Nuclear Magnetic Resonance

2005 – 2007 $297,022

Dr T.T. Barrows

Cosmogenic Isotopes in Glacial Landscapes: Production Rates and Climate Change

2005 – 2007 $290,000

Professor R.W. Boswell and Dr W. Li (APD Fellowship)

Preparation of Silica-based Thin Materials with Large Optical Nonlinearity

2005 – 2007 $315,000

Dr J. Bradby

Mechanical Deformation of Layered Semiconductor Structures

2003 – 2005 $234,000
Dr Y. Chen and Ms Y.J. Chen (APD Fellowship)
*Boron Nitride Nanotube Synthesis and Applications*
2004 – 2006 $ 410,000

Dr V. Craig, Associate Professor S. Biggs and Dr C. Neto (APD Fellowship)
*Nanorheology: Hydrodynamic Slip in Newtonian Fluids*
2003 – 2006 $ 291,000

Professor R.G. Elliman, Dr E. Krausz, Dr T.D.M. Weijers (APD Fellowship) and Associate Professor S. Choi
*The Physical and Optical Properties of Self-assembled Si Nanocrystals*
2003 – 2005 $ 318,035

Dr L. Fu
*Growth and Intermixing of Quantum Dots for Multi Wavelength Infrared Photodetectors*
2003 – 2005 $ 255,000

Dr C.J. Glover
*Applying Advanced Synchrotron Radiation Based Techniques to Determine the Connection between the Geometric and Electronic Structure of Semiconductor Nanocrystals*
2003 – 2005 $ 249,500

Dr P. Kluth
*Structural Characterisation of Ion Beam Synthesized Metallic Nanocrystals Using Advanced Synchrotron Based Analytical Techniques*
2005 – 2008 $ 248,000

Dr S. Kluth
*Ion Implantation Induced Diffusion and Defect Evolution in Si Nanostructures*
2003 – 2005 $ 242,700

Dr M.M. Kohonen
*Wet Granular Materials: A Three-dimensional Study Using X-ray Microtomography*
2005 – 2007 $ 280,000

Dr E. Ostrovkaya (APD Fellowship), Professor Y.S. Kivshar and Dr C.M. Savage

*Nonlinear Atom Optics of Bose-Einstein Condensates in Optical Lattices*

2003 – 2005 $ 193,035

**ARC Discovery Project Grant and Australian Professorial Fellowship**

Professor M.T. Batchelor

*The Mathematics and Physics of Interacting Systems*

2003 – 2007 $1,122,000

**ARC Discovery Project Grants and Australian Research Fellowships**

Dr V. Craig

*Surface Adsorption, Repulsion and Attraction: A New Experimental Approach to Surface Forces*

2002 – 2006 $ 573,782

Dr G.J. Lane

*Structure of Exotic Neutron-rich Nuclei Populated Using Novel Reaction Mechanisms*

2003 – 2007 $ 566,605

Dr D. Neshev (Research Fellowship) and Dr A. Sukhorukov

*Light Control in Nonlinear Periodic Structures*

2004 – 2009 $ 755,000

Dr T.J. Senden

*Dynamic Force Microscopy of Small Molecular Assemblies*

2002 – 2006 $ 391,782

Dr J.P. Sullivan

*Experiments with Antimatter: Investigating Positron Interactions with Atoms, Molecules and Materials*

2004 – 2008 $ 500,000
Dr A.G. Truscott (Research Fellowship) and Dr J.J. Hope

*How Does a Bose Einstein Condensate Develop Phase?*

2003 – 2007 $415,000

**ARC Discovery Project Grants and QEII Fellowships**

Professor S.T. Hyde, Dr T. Aste and Dr T. Di Matteo (QEII Fellowship)

*The Architecture of Networks: Characterisation and Visualisation of Complex Systems as Fluctuating Networks*

2003 – 2007 $687,275

Dr J. Wong-Leung (QEII Fellowship) and Professor B.G. Svensson

*Ion Implantation Processing in Silicon Carbide for Microelectronic Applications*

2002 – 2006 $619,411

Dr W. Xu (Total grant $354,160)

*Generation of Coherent-hypersound from Semi-conductor Systems*

(Transferred from University of Wollongong)

2002 – 2005 (ANU share) $249,628

**ARC Federation Fellowship**

Professor S. Hyde

*Self-assembly and Complexity: Networks and Patterns from Materials to Markets*

2004 – 2009 $1,519,710

Professor C. Jagadish

*Ordered Semiconductor Nanostructures for Electronics and Photonics Applications*

2004 – 2009 $1,519,710

Professor Y. Kivshar

*Nonlinear Photonics and All-optical Technologies*

October 2002 – November 2007 $1,448,515

Professor B. Luther-Davies
Creation of a Novel Photonic and Nanostructured Materials by Ablation of Solids with Ultra Fast Lasers
2002 – 2007 $1,481,765

ARC Linkage Infrastructure Equipment and Facilities
Dr V.S. Craig, Dr E.J. Wanless, Dr G.V. Franks, Dr C. Neto, Dr M.M. Kohonen and Dr G.J. Jameson

Dynamics at Interfaces: A Facility for the Characterisation of the Dynamics of Structural Reorganisation and Adsorption at Interfaces
2005 $ 187,000

Professor G.D. Dracoulis, Professor A.P. Byrne, Professor R.G. Elliman, Associate Professor J. O'Connor, Dr K.S. Butcher and Dr H. Timmers

National Heavy Ion Accelerator
2004 – 2005 $ 508,374

Professor L.K. Fifield, Dr E. Calvo and C. Pelejero

A New-generation Gas-source Radiocarbon System for Integrated Environmental and Archaeological Research
2005 $ 854,354

ARC Linkage International Award
Dr R. Ball, Professor R.L. Dewar and Dr F.L. Waelbroeck

Low-order Dynamical Models for Non-linear Fluid Behaviour in Quasi Two-dimensional Plasmas
2003 – 2005 $ 9,000

Professor M.T. Batchelor, Dr A. Kuniba and Dr M. Takahashi

Physical Properties of Exactly Solved Quantum Spin Systems
2004 – 2007 $ 56,000

Professor S.J. Buckman

Jointly with Flinders University (Total $ 33,000)

Environmental and Technological Applications of Electron-Driven Processes
2003 – 2006 (ANU Share) $ 16,500
Dr A.S. Kheifets
Multiple Atomic Photoionisation in Superstrong Electromagnetic Field
2004 – 2007 $ 13,800

Dr J. P. Sullivan and Professor S.J. Buckman
Jointly with Flinders University
Positron Processes – From Basic to Applied Science
2005 – 2007 $ 26,000

ARC Linkage Project Grants
Professor M. Bilek, Professor J.H. Harris, Professor D. McKenzie, Professor B. James, Dr J. Howard, Dr B. Blackwell, Dr P. Pigram, Dr D. McCulloch, Professor R.W. Boswell, Dr C. Charles and Dr M. Shats
Interactive Network for Plasma and Surface Analysis
2004 – 2005 (ANU share) $ 157,389

Dr G.G. Borg, Professor J.H. Harris and Dr H.M Jones
VHF Wireless Technologies for Last-mile Internet Access in Regional Australia
2003 – 2006 $ 138,198

Professor R.W. Boswell
Development of Inert Gas Ion Beams for Fabrication of Nanostructures
2003 – 2006 $ 300,000
Partner Contribution, FEI Corp, USA
2003 – 2006 $ 220,000

Professor R.G. Elliman
Implant Isolation of III-V Compound Semiconductor Devices and Structures
2005 – 2007 $ 260,000

Professor B. Luther-Davies, Dr R. Charters and Dr D. Kukulj
Advanced Siloxane Waveguide Devices for Telecommunications
2005 – 2008 $ 350,000
Partner Contribution, RPO Pty Ltd
2005 – 2008  $ 86,500

Professor B. Luther-Davies and Dr V. Kolev
*Laser Guide Star Using a High Power Synchronously Pumped Optical Parametric Oscillators*
2004 – 2007  $ 330,000

Dr M. Ridgway
*Amorphisation of Semiconductor and Elemental Metallic Nanocrystals by Ion Irradiation*
2005 – 2007  $ 367,000

Professor J.S. Williams
*Towards a High Density Silicon Phase Change Memory Device*
2004 – 2007  $ 665,629

**ARC QEII Research Fellowship**

Dr H.H. Tan
*Growth, Characterisation and Fabrication of GaInNAs Lasers*
May 2001 – May 2006  $ 357,590

**ARC Research Network**

Dr R.L. Dewar (Convenor), Dr T. Aste, Professor S.T. Hyde, Dr A. Sakellariou and other scientists
*Complex Open Systems Network (COSNet)*
2004 – 2009  $1,500,000

Professor C. Jagadish
Australian Research Council Nanotechnology Network
2004 – 2009  $1,900,000

Professor J.S. Williams
Australian Research Network for Advanced Materials
2004 – 2009  $1,500,000
Dr C. Kepert (Convenor, University of Sydney), Dr T. Aste and 48 other scientists

*Molecular and Materials Structure Network*

2004 – 2009 ($1,500,000)

Associate Professor C. McFarlane (Convenor, University of NSW), Professor M.A. Knackstedt and 48 other scientists

*ARC Research Network for Tissue Engineering*

2004 – 2009 ($1,500,000)

ARC Senior Research Fellowship

Professor P.G. Bouwknecht

*Mathematical and Physical Aspects of Quasi-particle Excitations in Quantum Many Body Systems*

January 2005 – June 2005 $48,190

*BASF A.G.*

Dr M.A. Knackstedt

*Fluid Penetration into Paper*

2004 – 2005 $220,000

*BHP Billiton Petroleum*

Professor W.V. Pinczewski and Dr M.A. Knackstedt

*Digital Core Analysis*

2003 – 2005 $150,000

Bluescope Steel

Dr J. Howard

*Research & Development of Coherence Pyrometry Technology within the Ironmaking Process*

2005 – 2006 $31,500

Commonwealth Scientific Industrial Research Organisation

Dr R. Ball

*Consultancy: Cross Disciplinary Bridges in Complex Systems Science*
<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003 – 2005</td>
<td>$18,000</td>
<td>Dr S.-H. Chung, <em>Dynamics of Ion Permeation</em></td>
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<tr>
<td>2003 – 2005</td>
<td>$890,000</td>
<td>COSNET Seed Funding</td>
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<td>2005 – 2006</td>
<td>$5,000</td>
<td>Dr T. Aste, <em>Granular Matter</em></td>
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<td>2003 – 2005</td>
<td>$55,000</td>
<td>Externally-led Program, <em>Ultra High Throughput Optical Probes</em></td>
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<tr>
<td>2004 – 2006</td>
<td>$67,500</td>
<td>Professor B.R. Lewis, <em>Fourteenth International Conference on Vacuum Ultraviolet Physics</em></td>
</tr>
</tbody>
</table>
Department of Industry, Tourism and Resources

CRC for Functional Communication Surfaces
Professor M.A. Knackstedt, Dr T. Senden, Dr V. Craig, Dr R. Roberts and Dr V. Yaminsky
Program 1: Fundamental Surface Measurements and Liquid Penetration Sciences
July 2001 – June 2008 $2,864,000
Program 6: Education, Scholarship
July 2001 – June 2008 $ 525,000

Australian Photonics Cooperative Research Centre
Professor J.D. Love, Dr A. Ankiewicz and Dr D. Bulla
Optical Fibre Transmission & Modelling
July 2004 – June 2005 $ 120,000

National Plasma Fusion Research Facility
Professor J. Harris et al.
National Plasma Fusion Research Facility
April 1997 – May 2005
June 2005 – June 2010 $8,700,000

CRC for Satellite Systems
Dr C. Charles and Professor R.W. Boswell
Collaboration with CRC for Satellite Systems and AUSPACE – Development of Plasma Thruster for Tests at ESA
2004 – 2005 $ 300,000

European Projects
Dr P. Richmond (Chair), Dr T. Aste, Dr T. Di Matteo and more than 100 scientist from 20 European Countries
European Union COST – P10 "Physics of Risk"
2003 – 2007 ($9,500,000)

Feoder-Lynen Humboldt Fellowship
Dr P. Kluth  
2003 – 2005 $ 120,000

**Korean Basic Science Institute**

Dr J. Howard  
*Develop Modulated Coherence Imaging (MCI) System for KSTAR*  
2005 $ 171,000

**Major Equipment Committee, ANU**

Dr V.S. Craig, Dr E.J. Wanless, Dr G.V. Franks, Dr C. Neto, Dr M.M. Kohonen and Dr G.J. Jameson  
*A Facility for the Investigation of Dynamic Processes at Interfaces*  
2005 $ 89,000

Professor G.D. Dracoulis, Professor A.P. Byrne, Professor R.G. Elliman, Associate Professor J. O'Connor, Dr K.S. Butcher and Dr H. Timmers  
*National Heavy Ion Accelerator*  
2004 – 2005 $ 100,000

Professor L.K. Fifield  
*A New Generation Gas Source Radiocarbon System for Integrated Environmental and Archaeological Research*  
2005 $ 330,278

**National Health & Medical Research Council**

**Project Grant**

Dr S.-H. Chung  
*Theoretical Studies on the Dynamics of Ion Permeation across Membrane Channels*  
2004 – 2008 $ 373,500

**Fellowship**

Dr S.-H. Chung  
2004 – 2008 $ 613,750
National Projects

Italian Ministry of Education Research and Technology Project
Dr R.N. Mantegna, Dr M. Marsili, Dr M. Bernaschi, Dr E. Scalas, Dr G.M. Gallo, Dr M. Gallegati, Dr V. Marinari, Dr G. Susinno, Dr T. Aste and Dr T. Di Matteo
High-frequency Dynamics of Financial Markets
2003 – 2006 ($3,150,000)

Sale of Equipment, Designed and Built In-house
Mr A. Hyde and Dr A. Stewart
Friction Measuring Apparatus – for Investigating Interfacial Friction at the Nanometre Level
Purchased by University of Napoli, "Federico II"
2005 $ 41,000

Mr A. Hyde and Dr. T. Senden
Low Pressure Plasma Modification Unit
Dr J. Gooding, UNSW
2005 ARC Collaboration

Teaching Grant Advanced Telecoms
Dr G. G. Borg
Teaching Grant Advanced Telecoms
2005 $ 10,000

US Air Force
Dr M. Samoc
New Materials Techniques and Device Concepts for Organic NLO Chromphone Based Electro-optic Devices
2005 $ 26,823

Victorian Department of Innovation, Industry & Regional Development (Australian Synchrotron)
Professor B.R. Lewis
Fourteenth International Conference on Vacuum Ultraviolet Physics
2003 – 2005 $ 22,000
Appendix – Interactions with the Faculties

Dr A. Ankewicz gave lectures and demonstrated for the courses PHYS3060, ENGN4513 and ENGN6520.

Dr T.T. Barrows is on the advisory panel of Michelle Spooner, Department of Earth and Marine Sciences.

Professor M.T. Batchelor gave 36 lectures and tutorials in Mathematical Methods (MATH3322) to 12 students.

Dr G. Borg lectured in Telecommunications Systems (ENGN3214) and Radiofrequency Engineering (ENGN4521) to 3rd and 4th year undergraduate students in the Faculty of Engineering and Information Technology.

Professor P.G. Bouwknegt gave 24 lectures and tutorials in Partial Differential Equations and Complex Calculus (MATH2406) to 27 students. He also presented 12 lectures (RQM) and tutorials in Advanced Theoretical Physics (PHYS3002) to 19 students.

Professor A.P. Byrne holds a joint appointment as Head of the Department of Physics, Faculty of Science.

Dr C. Borg lectured in the engineering course Optical Waveguide Materials (PHYS3059) to 3rd year undergraduate students in physics. Dr C. Charles also supervised two honours students, Laisan Li from the ANU, and Con Costa from Deakin University.

Dr S.H. Chung offered the course in Membrane Biophysics to 3rd year undergraduate students in physics.

Ms B.J. Dąbrowska tutored 1st year undergraduate students in Advanced Physics (PHYS1101 & PHYS1201).

Dr M. Dasgupta and Professor D.J. Hinde supervised Michael Brown from the Department of Physics in his honours project entitled "Investigating Dynamics of Reaction Forming Heavy Elements".

Professor R.G. Elliman gave guest lectures and lab tours for the courses ENGN2224 and ENGN4519.

Professor L.K. Fifield continues collaborations with Professor P. De Deckker and Dr B. Opdyke of the Department of Earth and Marine Sciences and is co-supervisor of Daniel Wilkins, a joint PhD student, with Professor De Dekker. Professor Fifield is collaborating with Dr D. Kirste and PhD student, Matt Lenehan of the Department of Earth and Marine Sciences using chlorine-36 to study salt transport in a dryland salinity area near Cootamundra.

Professor N.H. Fletcher gave a course of 25 lectures in the School of Music during the first semester titled Acoustics and Music.

Dr M. Gulacsy offered and taught Statistical Physics and Quantum Field Theory, a 4th year year honours course.
Dr M.J. Hole lectured the 3rd year course *Theoretical Physics* (PHYS3002) segment on *Classical Mechanics*.

Professor S. Hyde delivered guest lectures to 3rd year physics students on *Biomorphs and Ancient Nanofossils*. He also supervised PhB student Ben Weise.

Professor C. Jagadish, Dr. H.H. Tan and Dr. L. Fu gave a series of guest lectures for the course *Microelectronics and Optoelectronics* (ENGN4519).

Dr T. Kibédi supervised Daniel Imrich, an exchange student from the University of Vienna, in his non-degree course entitled "Development of Si-Array for Conversion Electrons".

Dr M. Kohonen lectured on *Wetting and Capillarity* to honours students in the Department of Chemistry.

Dr G. J. Lane supervised Justin Werner from the Department of Physics in his honours project entitled "Structure of High-spin Isomers in $^{184}\text{W}$".

Professor J.D. Love is the convenor for photonics teaching in the Department of Physics and the Department of Engineering, covering courses PHYS3051, PHY3053, PHYS3058, PHYS3059, PHYS3060, ENGN4513 & ENGN6520. He is also the convenor for photonics distance learning courses PHYS8510 & PHYS8511 in the Master of Contemporary Science degree and for students studying for the Master of Photonics degree. He also gave a series of first-year lectures in optics for PHYS1201.

Dr P. Kluth and Dr S. Kluth presented a course on *Microelectronic & Photonic Technology* (ENGN4507).

Dr F.P. Mills lectured in a preparatory workshop for *Independent Research Projects* (SRES3015) to 3rd year undergraduate students in environmental studies.

Dr D. Neshev supervised two undergraduate students from the Engineering Faculty: Mr. Michael Chen and Ms Anna E. Webster in their honours projects.

Dr C. Neto lectured on *Wetting and Capillarity* to honours students in chemistry.

Dr M.C. Ridgway and Dr C.J. Glover organised and ran a 4th year physics course on *Synchrotron Science* at the Faculty of Science.

Dr M.G. Shats lectured in *Plasma Physics* (PHYS3041) to 3rd year undergraduate students in physics.

Dr H.H. Tan gave a series of guest lectures for the course on *Optical Waveguide Materials* (PHYS3052).

Dr A.N. Wilson holds a joint appointment with the Department of Physics, Faculty of Science and supervises Michael East, Department of Physics in his honours project entitled "High-spin states in $^{192}\text{Pb}$". Dr Wilson also supervised advanced studies course projects for Michael Hush and Kimberley Heenan and co-supervised John Bartholomew and Jen Yee Lee with Dr P.M. Davidson.
Appendix – Internal Management

School Committees

Faculty Board
Together with meetings of Heads of Departments, Faculty Board is the principal mechanism for advising the Director on a regular basis. It reports to the Board of the Institute of Advanced Studies. The Board spends a significant proportion of its time on issues affecting the environment in which the School operates — especially funding and the impact of industrial and other legislation — rather than on strictly academic issues. Members are:

Professor Jim Williams (Chair)
Professor Rod Boswell (Chair of Faculty)
Professor Stephen Buckman, Associate Director (Academic) (until November)
Dr Ken Baldwin, Deputy Director (from November)
Professor Neil Manson, Associate Director (Students)
Dr David Williams (Head, AM) (until October)
Professor Mark Knackstedt (Head, AM) (from October)
Professor Brenton Lewis (Head, AMPL)
Professor Allan Snyder (Head, CfM)
Professor John Mitchell (Deputy Head, CfM)
Professor Rob Elliman (Head, EME)
Professor Barry Luther-Davies (Head, LPC)
Professor Yuri Kivshar (Head, NLPC)
Professor George Dracoulis (Head, NP)
Professor John Love (Head, OSG)
Professor Jeffrey Harris (Head, PRL) (until July)
Dr Boyd Blackwell (Head, PRL-Toro) (from August)
Professor Rod Boswell (Head, PRL-SP3) (from August)
Professor Vladimir Bazhanov (Head, TP) (until May)
Professor Murray Batchelor (Head, TP) (from June)
Mr Rana Ganguly (School Manager)
Mr Kevin Lonsdale (Technical Services Manager)
Mr Andrew James (Finance Manager)
Mrs Gayle Samuel (HR Manager)
Mr Devin Ramdutt (Student Representative)
Ms Helen Hawes (General Staff Representative)
Faculty
The Faculty of the School consists of all academic staff, including long-term visitors and postgraduate students. Faculty functions as a means for informing academic staff on activities within the School.

Professor R.W. Boswell (Chair)
Mrs Gayle Samuel (Secretary)

Heads of Departments
Heads of Departments met with the Director throughout the year and, where appropriate, senior administrative staff attended. Aspects of the School budget and strategic planning dominated the meetings.

Professor Jim Williams (Chair)
Professor Stephen Buckman, Associate Director (Academic) (until November)
Dr Ken Baldwin, Deputy Director (from November)
Professor Neil Manson, Associate Director (Students)
Mr Rana Ganguly, School Manager
Heads of Departments/Centres

Other School Advisory Groups and Committees

Budget Strategy Advisory Group
Professor Jim Williams (Chair)
Professor Stephen Buckman
Mr Rana Ganguly
Mr Andrew James

Commercialisation Advisory Group
Dr Tim Senden (Chair)
Professor Rod Boswell
Mr Tony Cooke (Anutech representative)
Professor Jeffrey Harris
Professor Barry Luther-Davies
Professor Jim Williams

Colloquium Committee
Professor C. Jagadish (Chair)
Professor Hans Bachor
Dr Rowena Ball
Professor Robert Crompton
Professor Rob Elliman
Professor Neville Fletcher
Dr Miklos Gulascsi
Professor David Hinde
Dr Matthew Sellars
Dr Tim Senden
Ms Laura Walmsley

Computing Policy Advisory Committee
Dr Boyd Blackwell (Chair)
Dr Gordon Foote
Dr Stephen Gibson
Professor John Mitchell
Dr Elena Ostrovskaya
Dr Marek Samoc
Dr Adrian Sheppard
Dr Hark Hoe Tan
Executive members:
Mr Rana Ganguly
Mr Kevin Lonsdale
Dr Shiu Tin

Fixed-Term Academic Appointments Committee
To increase flexibility the Chair may second other School staff if required. Core members are:
Professor Stephen Buckman (Chair) (until November)
Dr Ken Baldwin (Chair) (from November)
Dr Nanda Dasgupta
Dr David Hinde
Professor John Love
Dr David Williams

General Staff & Facilities Advisory Group
Professor Stephen Buckman (Chair) (until November)
Dr Ken Baldwin (Chair) (from November)
Ms Julie Dalco
Dr Keith Fifield
Mr Rana Ganguly
Mr Ian McRae
Dr David Weisser
Ms Renee Vercoe
Mrs Gayle Samuel
Mr Kevin Lonsdale

**Local Promotions Committee**
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Professor Hans Bachor
Professor Rob Elliman
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Ms Lyndell Paseka
Dr Adrian Sheppard
Mr Nathanael Smith
Mr Ken Staples

By Invitation:
Mr John Sullivan (ANU Facilities and Services)

School Resource Review Committee

Professor Stephen Buckman
Professor George Dracoulis
Professor Robert Elliman
Professor Brenton Lewis
Professor Jeffrey Harris
Professor Murray Batchelor
Mr Ian McRae
Mr Kevin Lonsdale
Mr Rana Ganguly

Student Advisory Group

Professor Neil Manson (Chair)
Ms Anna Cirjak
Professor Aidan Byrne
Dr Mark Ridgway
Dr Nanda Dasgupta
Dr John Howard
Appendix – Invited Conference Presentations & Lectures

Legend: Presenter of contributed paper is underlined

SPIE International Symposium on Electronic Imaging, San Jose, USA, 16 – 20 January
Fu, L. — Towards Quantum Dot-based Photonic Integrated Circuits

16th National Congress of Australian Institute of Physics, Australian National University, Canberra, 30 January – 4 February
Akhmediev, N.N. — Multiple Dissipative Soliton Interactions in a Passively Mode-locked Fiber Laser
Das, M.P. — Where is Dissipation in a Ballistic Quantum Point Contact?
Dasgupta, M. — Fusion Mechanisms of Light Weakly Bound Nuclei
Di Matteo, T. — Econophysics: from Statistical Physics to Economics
Dracoulis, G.D. — Deformed Nuclear Isomers
Hinde, D.J. — Reaching the Super-heavies
Kivshar, Yu.S. — Nonlinear Light Propagation in Periodic Structures: Experiment vs Theory

The 2nd International Conference on Advanced Materials and Nanotechnology (AMN-2), Queenstown, New Zealand, 6 – 11 February
Williams, J.S. — Novel Silicon-based Materials and Nanotechnology Applications
Craig, V. — Boundary Slip in Newtonian Fluids: Implications for Microfluidics

2nd Italian-Australian Workshop on Future Directions in Spectroscopy and Imaging with Synchrotron Radiation, Trieste, Italy, 9 –11 February
Ridgway, M.C. — Structure in Amorphous Semiconductors Probed with EXAFS
Sullivan, J.P. — Using the Time Structure of Synchrotrons to Probe Atomic Physics Processes
Conference on Solitons in Bose-Einstein Condensates (SOLIBEC), Almagro, Spain, 9 – 12 February
Alexander, T.J. — *Gap Vortices and 3D Localized Structures in Lattices*

The 2nd International Conference on the Frontiers of Plasma Physics and Technology, Goa, India, 21 – 25 February
Ball, R. — *Shear Flows and Turbulence – A Dynamical Systems Treatment of Plasma Confinement Transitions*

Korea/Australia Workshop, YongPyong, Korea, 22 – 24 February

National Conference on Nonlinear Systems and Dynamics, Uttar Pradesh, India, 23 – 26 February
Ball, R. — *Trapped Singularities in a Dynamical Model for Plasma Confinement Transitions*

2nd IAEA Technical Meeting on the Theory of Plasma Instabilities: Transport, Stability and their Interaction, Trieste, Italy, 2 – 4 March
Ball, R. — *The Case of the Trapped Singularities*

International Meeting on Non-commutative Geometry, K-Theory and Physics, Tokyo, Japan, 4 – 7 March
Bouwknegt, P.G. — *D-Branes, Gerbes and (twisted) K-Theory*

International Workshop on Hydrogen Technologies for a Sustainable Energy Future, Melbourne, 20 – 23 March
Boswell, R.W. — *High Plasma Density Sputter Deposition of Platinum Clusters for Fuel Cell Electrodes*

American Physical Society March Meeting, Los Angeles, USA, 21 – 25 March
Sukhorukov, A.A., Shadrivov, I.V., Zharov, A. and Kivshar, Yu.S. — *Nonlinear Effects in Left-handed Metamaterials and Related Structures*
International Workshop on DNA Photonics, Hawaii, USA, 27 – 31 March
Samoc, M. and Samoc, A. — DNA Photonics at the ANU: Plans and Thoughts

Spring Meeting of the Materials Research Society, Symposium V: Rare-Earth Doping for Optoelectronic Applications, San Francisco, 28 March – 1 April
Forcales, M. — Pump-probe Experiments in Er-doped Silicon-rich Oxide Slab Waveguides
Williams, J.S. — Nanoindentation of Semiconductors

The 24th Biennial Conference of the Society for Crystallographers in Australia and New Zealand, Marysville, 29 March – 1 April
Hyde, S.T. — Knotted Nets and Weavings

The 4th IMACS International Conference Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, Athens, USA, 11 – 14 April
Krolikowski, W. — Ring Vortex Solitons in Self-focusing Nonlocal Media

Geometry and Physics in Honour of Keith Hannabuss' 60th Birthday, University of Adelaide, 11 – 12 April
Bouwknegt, P.G. — Generalized Geometry, Mirror Symmetry and T-Duality

8th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM), Cancun, Mexico, 22 – 28 April
Samoc, M., Samoc, A., Luther-Davies, B., Diez, I. and Schulz, B. — Cubic Nonlinear Optical Properties of π-conjugated Polymers from Reflection-mode Measurements

Workshop on Correlated Electron Effects for Anomalous Properties of Elemental Actinides, Los Alamos, USA, May
Gulacsi, M. — Mean-field Theory of Phonon Softening

International Symposium on Photonics, Biophotonics and Nanophotonics, Nanjing, China, 14 – 18 May
Samoc, M., Humphrey, M.G. and Cifuentes, M.P. — Nonlinear Absorption and Nonlinear Refraction in Ruthenium Alkynyl Complexes
The National Centre for Nonlinear Studies' 25th Annual International Conference – 50 Years of the Fermi – Pasta, Santa Fe, USA, 16 – 20 May
Kivshar, Yu.S. — Ulam Problem: Legacy, Impact, and Beyond

36th Meeting of the Division of Atomic, Molecular and Optical Physics, Lincoln, USA, 17 – 21 May
Kheifets, A.S. — Convergent Close-coupling Calculations of Atomic Double Ionization

CSIRO Network Topology and Dynamics Workshop, Canberra, 18 May
Ball, R. — Singularities and Bifurcations of Dynamical Systems

International Workshop on Computational Material Science, Lanzhou, China, 23 – 25 May
Das, M. — Mesoscopic Transport and Noise

Third SPIE International Symposium on Fluctuations and Noise, Austin, USA 23 – 26 May
Di Matteo, T. — Correlation Filtering in Financial Time Series

Scientific School on Physics and Applications of Microwaves, Moscow, Russia, 23 – 27 May
Sukhorukov, A.A., Shadrivov, I.V. and Kivshar, Yu.S. — Materials with Negative Refractive Index

7th Mediterranean Workshop and Topical Meeting on Novel Optical Materials and Applications (NOMA'05), Cetraro, Italy, 29 May – 4 June
Sukhorukov, A.A., Shadrivov, I.V. and Kivshar, Yu.S. — Complete Bandgaps in One-dimensional Left-handed Periodic Structures

16th Meeting of the Nuclear Structure and Decay Data Network, McMaster University, Canada, 6 – 10 June
Kibédi, T. — BrIcc – Band-Raman Conversion Coefficients

Joint Conference on Lasers and Electro-Optics and European Quantum Electronics Conference (CLEO EUROPE/EQEC'05), Munich, Germany, 12 – 17 June
Ostrovskaya, E.A. — Bose-Einstein Condensates in Optical Lattices: Band-gap Structure, Solitons, and Vortices

International Conference on Finite Fermionic Systems: Nilsson Model 50 Years, Lund, Sweden, 14 – 18 June
Dracoulis, G.D. — Multi-quasiparticle Intrinsic States in Deformed Yb and Lu Nuclei Near Stability

The 17th International Conference on Laser Spectroscopy (ICOLS'05), Aviemore, UK, 19 – 24 June
Ostrovskaya, E.A. — Nonlinear Dynamics of Matter Waves In Optical Lattices

International Symposium on Photonic and Electromagnetic Crystal Structures (PECS VI), Crete, Greece, 19 – 24 June
Kivshar, Yu.S. — Optically-induced Photonic Lattices: An Analog of Nonlinear Photonic Crystals

Asia-Oceania Geosciences Society 2nd Annual Meeting, Singapore, 20 – 24 June
Lewis, B.R. — Quantum Mechanics and Planetary Atmospheres

6th International Conference Symmetry in Nonlinear Mathematical Physics, Kiev, Ukraine, 20 – 26 June
Kun, S.Yu. — Slow Phase Relaxation Can Prevent Meltdown in Quantum Computers
Biernert, M., Flores, J., Kun, S.Yu. and Seligman, T.H. — Anomalously Slow Cross Symmetry Phase Relaxation, Thermalized Non-equilibrated Matter and Quantum Computing Beyond the Quantum Chaos Border

Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century, Yale University, USA, 23 – 25 June
Dracoulis, G.D. — Single-particle and Collective Effects in the Light Pb Isotopes
Stuchbery, A.E. — Radioactive Beam g-factor Measurements: The Role of Tandem Laboratories

Early Life in the Pilbara Craton and the Link to Mars, Fremantle, 25 June – 3 July
European Union Workshop on Electron and Positron Induced Chemistry, Viterbo, Italy, 26 – 30 June

Buckman, S.J. — *The Australian Positron Beamline – A Facility for AMO Physics, Materials Science and Bioscience Studies*

6th Liquid Matter Conference of the European Physical Society, Utrecht, The Netherlands, 2 – 6 July

Neto, C. — *Boundary Slip in Newtonian Liquids: An Experimental Approach*

Gordon Research Conference on Nuclear Chemistry, New London, USA, 26 June – 1 July

Dracoulis, G.D. — *High-K Isomers: Spectroscopy and Nuclear Structure*

Stuchbery, A.E. — *Magnetic Moments as a Probe of Shell Structure in Neutron-rich Nuclei*

International Conference on Materials for Advanced technologies, Singapore, 3 – 8 July

Jagadish, C. — *Quantum Dots for Integrated Optoelectronics*

8th International Workshop on the Interrelationship between Plasma Experiments in Laboratory and Space, Tromsø, Norway, 4 – 8 July

Ball, R. — *Dynamics of Coupled Magnetosphere-ionosphere Energy Subsystems*

Boswell, R.W. — *Possible Application of Current-free Double-layers to Space Plasmas*

Bragg Gratings, Poling & Photosensitivity / 30th Australian Conference on Optical Fibre Technology (ACOFT/BGPP 2005), Sydney, 4 – 8 July

Kivshar, Yu.S., Neshev, D.N., Sukhorukov, A.A. and Krolikowski, W. — *Optically Induced Lattices as Nonlinear Photonic Crystals*

International Workshop on Photonic Crystals: Fundamentals to Devices, Sydney, 7 – 8 July

Counting Complexity – An International Workshop on Statistical Mechanics and Combinatorics, Dunk Island, Queensland, 10 – 15 July
Batchelor, M.T. — The Cool World of Ultracold Bose and Fermi Gases

Categories in Algebra, Geometry and Mathematical Physics: Conference in Honour of Ross Street’s 60th Birthday, Macquarie University, Sydney, 10 – 17 July
Bouwknegt, P.G. — D-branes and Generalized Geometry

The 1st Workshop on Thin Films Applied to Superconducting RF, Jefferson Lab, USA, 17 – 18 July
Lobanov, N. — Superconducting Films Deposition at ANU

International Workshop on Nanotechnology, Perth, 17 – 20 July
Jagadish, C. — Quantum Dots for Optoelectronic Device Applications

17th International Conference on Phenomena in Ionized Gases, Eindhoven, The Netherlands, 17 – 22 July
Boswell, R.W. — Current-free Double-layers in the Laboratory and their Applications to Space Plasmas
Charles, C. — Helicon Double Layer Thrusters

New Frontiers in Exactly Solved Models, ANU, 21 – 22 July
Batchelor, M.T. — Integrable Interacting Fermi Gas

1st China-Korea Workshop on Low Temperature Plasma Physics and Applications, Zhang JaiJi, Korea, 26 – 28 July
Boswell, R.W. — Possible Application of Current-free Double-layers to Space Plasmas
14th International Symposium on Electron-Molecule Collisions and Swarms, Campinas, Brazil, 27 – 30 July

Buckman, S.J. — Benchmark in Experimental Studies of Electron(positron) - Molecule(Atom) Scattering

Kheifets, A.S. — Double Photoionization of H₂ and Ne at Unequal Energy Sharing

International Workshop on Supersymmetries and Quantum Symmetries, Dubna, Russia, 27 – 31 July

Bazhanov, V.V. — Zamolodchikov's Tetrahedron Equation and Hidden Structure of Quantum Groups

International Symposium on (e,2e), Double Photoionization and Related Topics, Buenos Aires, Argentina, 28 – 30 July

Lower, J.C.A. — Ionization of Atoms with Spin-polarised Electrons

50th Annual Meeting of SPIE-International Society for Optical Engineering, San Diego, USA, 31 July – 4 August

Jagadish, C. — Quantum Dots and Nanowires for Photonics Applications

Soliton Workshop, Dresden, Germany, August

Krolikowski, W. — Nonlocal Solitons

Workshop for Nonlocal, Collisionless Electron Transport in Plasmas, Princeton, USA, 2 – 4 August

Boswell, R.W., Sutherland, O., Charles, C. and Lieberman, M.A. — Sub-Bohm Diffusion in a High Beta Helicon Plasma

International School of Contemporary Physics-III, Ulaanbaator, Mongolia, 8 – 15 August

Kibédi, T. — Internal Conversion Coefficient: How Good Are They Now?

String Theories and Supersymmetric Gauge Theories, Paris, France, 8 – 19 August

Bazhanov, V.V. — Eight-vertex Model and Painleve Theory
ANU Workshop on Integrability, Spin Systems and Ultracold Quantum Gases, University of Tokyo, Japan, 11 August  
Batchelor, M.T. — Integrable Quantum Fermi Gas

Gerbes, Twisted K-Theory and Conformal Field Theory Workshop, Oberwolfach, Germany, 13 – 21 August  
Bouwknegt, P.G. — Generalized Geometry, Mirror Symmetry and T-duality

Australian Science Festival, Canberra, 16 August  
Byrne, A.P. — Future of Nuclear Power in Australia

XXIII International Conference of Differential Geometric Methods in Theoretical Physics, Tianjin, China, 20 – 25 August  
Batchelor, M.T. — Integrable Quantum Gases

XIV International Materials Research Congress: Materials World Network: The Next Ten Years, Cancun, Mexico, 22 – 24 August  
Williams, J.S. — Historical Background – Development of the Materials World Network, Overview on Hawaii

Swedish Microelectronics Research Program Conference, Linkoping, Sweden, 23 – 27 August  
Jagadish, C. — Quantum Dots and Nanowires for Optoelectronics Applications

XX Congress of the International Union of Crystallography, Florence, Italy, 23 – 31 August  
Hyde, S.T., Ramsden, S. and Robins, V. — Knotted Nets and Weavings: From 2D Hyperbolic to 3D Euclidean Patterns

17th International Conference on Ion-Surface Interactions, Zvenigorod, Russia, 25 – 29 August  
Williams, J.S. — Nanocavities and Nanoparticles Formed in Silicon by Ion Irradiation

SPIE International Congress on Optics and Optoelectronics, Warsaw, Poland, 28 August – 2 September  
Kivshar, Yu.S. — Nonlocal Solitons
Krolikowski, W. — Solitons in Nonlocal Nonlinear Media
Sukhorukov, A.A. and Kivshar, Yu.S. — Soliton Mobility in Nonlinear Lattices

International Conference on Capture Gamma-Ray Spectroscopy (CGS-12), Indiana, USA, 4 – 9 September
Dracoulis, G.D. — Isomers and Aspects of Nuclear Structure

14th International Conference on Surface Modification of Materials by Ion Beams, Kusadasi, Turkey, 4 – 9 September
Williams, J.S. — Ion-beam-induced Formation of Nanocavities and Nanoparticles of Controlled Size in Si and SiO2

The Seventh International Conference on Correlation Optics, Chernivtsi, Ukraine, 6 – 9 September
Kivshar, Yu.S. — Partially Incoherent Optical Vortices

European Scientific Foundation Conferences Bose-Einstein Condensation EuroConference on Ultracold Gases and their Applications, Costa Brava, Spain, 10 – 15 September
Kivshar, Yu.S. — Matter-wave Gap Solitons and Vortices in Optical Lattices

Conference on Laser Ablation (COLA'05), Banff, Canada, 11 – 16 September

The Fifth Asian-European International Conference on Plasma Surface Engineering (AEPSE 2005), Qingdao City, China, 12 – 16 September
Li, W-T., Boswell, R.W. and Bulla, D. — Surface Oxidation of Al Masks for Deep Dry-etch of Silica Optical

International Conference on Advanced Optoelectronics and Lasers (CAOL), Yalta, Ukraine, 12 – 17 September
Tan, H.H. — Quantum Dot Optoelectronic Devices

International Conference on Super-Strong Fields in Plasma, Varenna, Italy, 19 – 24 September
Gamaly, E.G., Uteza, O.P., Rode, A.V., Samoc, M. and Luther-Davies, B. — Non-equilibrium Transformations of Solids Induced by Femtosecond Laser Pulses

**Australian Mathematical Society Steering and Council Meetings, 49th Annual Conference of the Australian Mathematical Society**, University of Western Australia, Perth, 24 – 29 September

Bouwknegt, P.G. — Generalized Geometry, Mirror Symmetry and T-Duality

**12th Laser-Aided Plasma Diagnostics Symposium**, Salt Lake City, USA, 25 September – 2 October

Howard, J. — Coherence Imaging for Time-resolved 2-d Plasma Spectroscopy

**15th International Stellarator Workshop**, Madrid, Spain, 3 – 7 October

Blackwell, B. — Recent Results from the H-1 Heliac

**2nd China Australian Symposium**, Beijing, China, 9 – 13 October

Williams, J.S. — Nanoscience and Nanotechnology: Materials and Photonics Research at the ANU

**North Eastern Accelerator Personnel and Heavy Ion Accelerator Technology Conference**, Brookhaven National Laboratory, USA, 16 – 20 October

Weisser, D.C. — A Novel Rotational Tuner for Multi-stub Resonators

Weisser, D.C. — A Gas Cathode for the ANU Version of a SNICSII

Weisser, D.C. — Far-field Electrodes for a 3 Frequency Gridded Buncher

**SPIRAL2 – Workshop on Reactions**, Strasbourg, France, 19 – 21 October

Hinde, D.J. — Breakup of Weakly Bound Nuclei at Sub-barrier Energies

**19th Annual Meeting of the IEEE Lasers and Electro-Optics Society (LEOS)**, Sydney, 23 – 27 October

Jagadish, C. — Quantum Dot Lasers and Optoelectronic Device Integration


Sukhorukov, A.A., Shadrivov, I.V. and Kivshar, Yu.S. — Confinement of Light in Left-handed Periodic Structures
International Workshop Energy Relaxation versus Phase Relaxation in Quantum Many Body Systems, Cuernavaca, Mexico, 24 October – 4 November
Kun, S.Yu. — *Anomalously Slow Phase Relaxation in Quantum Many-body Systems*

11th MicroOptics Conference, Tokyo, Japan, 30 October – 2 November
Gao, Q. — *Quantum Dot Optoelectronic Devices*

Materials & Testing Science, Technology and Application Conference, Fremantle, 30 October – 2 November
Chen, Y. — *One-dimensional Nanomaterials: Synthesis, Characterization and Properties*
Williams, J.S. — *Nanoindentation of Semiconductors*

Noncommutative Geometry and Physics Workshop 2005, Sendai University, Japan, 1 – 4 November,
Bouwknegt, P.G. — *Generalized Geometry, Mirror Symmetry and T-duality*

International Workshop on Non-commutative Geometry and Physics, Beijing, China, 7 – 10 November
Bouwknegt, P.G. — *Global Aspects of T-duality*

Antimatter Matters: A Workshop on Positron Applications from Atoms to Materials to Cells, Australian National University, Canberra, 9 – 11 November
Buckman, S.J. — *Atomic, Molecular & Bioscience Studies at the Australian Positron Beamline*
Sullivan, J.P. — *The Australian Positron Beamline Facility*
McEachran, R.P. — *Positron Excitation Processes – Two Golden Ages*

14th AINSE Conference on Nuclear and Complementary Techniques of Analysis, Wellington, New Zealand, 20 – 22 November
Elliman, R.G. — *Stress and Stress Relief in Dielectric Thin Films – the Role of Hydrogen*

Materials Research Society Fall Meeting, Boston, USA, 28 November – 2 December
Williams, J.S. — Controlling the Size of Nanocavities and Nanoparticles in Si and SiO₂ Using Ion Irradiation

The 2nd ARC Centre for Functional Nanomaterials Annual Conference, Brisbane, 30 November – 3 December
Gao, Q. — Quantum Dots and Nanowires for Optoelectronic Device Applications
Li, C.-P. — Synthesis of Silicon Oxycarbide Nanowires and Silicon Carbide Nanowires on Carbon Nanotube Template

International Conference on Computational Experimental Science and Technology at IIT, Chennai, India, 1 – 5 December
Das, M. — Mesoscopic Transport and Noise

HRIBF Workshop – Near and Sub-barrier Fusion of Radioactive Ions with Medium and Heavy Targets, Oak Ridge National Laboratory, USA, 2 – 3 December
Hinde, D.J. — The Role of Nuclear Structure in Sub Barrier Fusion
Hinde, D.J. — Enhancement and Suppression of Fusion in Reactions Forming Heavy Nuclei

6th Symposium on Nano-Technology and Plasma Application for Next Generation Processing, Jeju, Korea, 4 – 7 December
Balcon, N., Aanesland, A. and Boswell, R.W. — Atmospheric Plasma Processing at the ANU

7th Australia-Japan Plasma Diagnostics Workshop, Toki, Japan, 6 – 8 December
Blackwell, B. — Application of Novel Datamining Techniques to H-I Mirnov Data

SPIE International Symposium on Microelectronics (MEMS), Brisbane, 11 – 14 December
Tan, H.H. — Quantum Dot Optoelectronic Devices Grown by MOCVD
Aste, T. and Di Matteo, T. — Materials and Complexity
Di Matteo, T. and Aste, T. — Mapping Complex Systems into Hyperbolic Networks

4th International Conference on Optical Communications and Networks, Bangkok, Thailand, 14 – 16 December
Akhmediev, N.N. — (3+1)-Dissipative Solitons: Numerical Studies
International Conference Econophysics Colloquium, The Australian National University, Canberra, 14 – 18 December

Di Matteo, T. and Aste, T. — Constrained Dynamics of Financial Correlations

Non-refereed conference papers.

The 41st Applied Mathematics Conference (ANZIAM 2005), Hawkes Bay, New Zealand, 30 January – 3 February

Shadrivov, I.V. — Nonlinear Properties of Left-handed Composites

Second International Conference on Advanced Materials and Nanotechnology (AMN-2), Queenstown, New Zealand, 6 – 11 February

Shadrivov, I.V., Sukhorukov, A.A. and Kivshar, Yu.S. — Two-Dimensional Bandgap in One-Dimensional Negative-Index Periodic Structures

Shadrivov, I.V., Zharova, N.A., Zharov, A.A. and Kivshar, Yu.S. — Towards Nonlinear Left-handed Metamaterials

ICONO/LAT 2005, St Petersburg, Russia, 11 – 15 May

Sukhorukov, A.A., Neshev, D.N., Krolikowski, W. and Kivshar, Yu.S. — All-optical Switching in Low-index Nonlinear Bandgap Structures

Shadrivov, I.V., Sukhorukov, A.A. and Kivshar, Yu.S. — Two-dimensional Bandgap in One-dimensional Negative-index Periodic Structures

7th Mediterranean Workshop and Topical Meeting on Novel Optical Materials and Applications (NOMA’05), Cetraro, Italy, 29 May – 4 June

Sukhorukov, A.A., Shadrivov, I.V. and Kivshar, Yu.S. — Complete Bandgaps in One-dimensional Left-handed Periodic Structures
The 5th International Conference on Photonics, Devices and Systems (Photonics Prague 2005), Prague, Czech Republic, 8 – 11 June


Photonic Crystals: Fundamentals to Devices and 14th International Workshop on Optical Waveguide Theory and Numerical Modelling, Sydney, 7 – 8 July,

Sukhorukov, A.A. — Spatial Beam Switching in Low-index Nonlinear Photonic Structures

12th European Conference on Integrated Optics (ECIO'05), Grenoble, France, 6 – 8 April

Morrison, S. and Kivshar Yu.S. — Free Space Beaming of Light from Photonic Crystals

International Symposium on Photonic and Electromagnetic Crystal Structures (PECS VI), Crete, Greece, 19 – 24 June

Mingaleev, S.F., Miroshnichenko, A.E., Kivshar, Yu.S. and Busch, K. — Analytical Examination of Fano Resonances in Photonic Crystal Devices

Shadrivov, I.V., Zharov, A.A., Zharova, N.A. and Kivshar, Yu.S. — Discrete Effects in Left-handed Metamaterials


OWTNM 2005 – 3th International Workshop on Optical Waveguide Theory and Numerical Modelling, Grenoble, France, 8 – 9 April

Morrison, S. and Kivshar, Yu.S. — Modelling the Beaming Effect of Light from Photonic-crystal Waveguides

16th National Congress of Australian Institute of Physics, Canberra, 30 January – 4 February

Peterson, D.E., Krolikowski, W., Neshev, D.N., Bang, O. and Wyller, J. — Dark Soliton Formation and Interaction in Nonlocal Nonlinear Thermal Media

Shadrivov, I.V., Zharova, N.A., Zharov, A.A. and Kivshar, Yu.S. — Nonlinear Left-handed Metamaterials

Sukhorukov, A.A., Ku, T.-S., Shih, M.-F. and Kivshar, Yu.S. — Coherence Controlled Soliton Interactions
Miroshnichenko, A.I., Kivshar Yu.S. and Mingaleev, S.V. — *Fano Resonance with Photonic Crystals*

Neshev, D.N., Sukhorukov, A.A., Hanna, B., Krolikowski, W. and Kivshar, Yu.S. — *Control and Steering of Gap Solitons in Optically-induced Lattices*

Lee, R.-K., Ostrovskaya, E.A., Kivshar, Yu.S. and Lai, Y. — *Squeezed Matter-wave Gap Solitons in Optical Lattices*

Desyatnikov, A.S., Neshev, D.N., Kivshar, Yu.S., Sagemerten, N., Traeger, D., Jaegers, J. and Denz, C. — *Two-dimensional Optically Induced Anisotropic Nonlinear Photonic Lattices*

Feise, M.W., Shadrivov, I.V. and Kivshar, Yu.S. — *Bistability and Diode Action in Left-handed Band-gap Structures*

Dabrowska, B., Ostrovskaya, E.A. and Kivshar, Yu.S. — *Interaction of Matter-wave Gap Solitons in Optical Lattices*
Appendix – Outreach Activities

**Individual Outreach Activities**

**Dr Tomaso Aste** gave an invited Colloquium Seminar on *Investigating Non-crystalline Structures and Granular Matter* at the University of Melbourne in September.

**Dr Rowena Ball** presented a lecture titled *A Unified Dynamical Model for Plasma Confinement Transitions* at Dipartimento di Energetica, Politecnico di Torino, Italy in October. Dr Ball also gave two lectures in December, one at UKAEA/Euratom Fusion Association, Culham Science Centre, Abingdon, UK, titled *A Unified Dynamical Model for Plasma Confinement Transitions: The Case of the Trapped Singularities* and the other at Equipe Dynamique des Systèmes Complexes, CNRS-Université de Provence, Marseille, France, titled *Singularity Theory Approach to Low Dimensional Modelling*.

**Professor Murray Batchelor** presented talks at the Chinese Academy of Science, Beijing and at the Qingdao University, Qingdao, China and as part of the Australian Academy of Science/JSPS Visitor Program he traveled to Tokyo and presented a series of lectures.

**Dr Gerard Borg** provided a BushLAN test link to Canberra Cuboree in January. The link was from Camp Cottermouth to Mt Stromlo.

**Dr Boyd Blackwell** was invited to give a presentation on *Fusion Energy* at the Bennelong Symposium on Future Energy, Ryde, 4 August.

**Professor Rod Boswell** gave invited lectures at KAIST and Jusong Engineering, in Korea in February; at ESTEC, TU Eindhoven, the Netherlands, in April; and Tsingwha University Beijing, China, also in April.

**Professor Peter Bouwknecht** supervised two PhD students from the University of Adelaide.

**Professor Aidan Byrne** participated in a Forum discussion on the *Future of Nuclear Power* as part of the Australian Science Festival on 16 August. He also made presentations on this issue to the University of the Third Age in August and October. In October he presented the evening talk for the annual Siemens Science School on *Issues in Nuclear Power*.

**Dr Christine Charles** gave an invited public lecture at The Australian National Museum in Melbourne in August and was involved in the ANU brand advertising.
Dr Vince Craig delivered a lecture to a joint meeting of the Australian Pulp and Paper Institute Technical Association (APPITA) and the Surface Coatings Association of Australia (SCAA), Melbourne, 19th September 2005. He also prepared information for the traveling show "Innovation: A showcase of Australia-Japan Cooperation" see www.innovationsshowcase.org

Dr Mukunda Das gave a plenary talk at the Golden Jubilee BARC Solid State Physics Symposium, India, presented seminars at the Interdisciplinary Centre for Theoretical Studies, Chinese Academy of Science, Peking University, National University of Singapore, KAIST, South Korea, Korean Institute of Advanced Studies, Seoul National University, National Physical Laboratory, India, and the Institute of Math Science, India. He also gave a series of eight talks on Mesoscopic Transport Physics at the Asia-Pacific Centre for Theoretical Physics, South Korea and gave talks at the S.N. Bose National Centre for Basic Sciences, Kolkata and Fudan University, China. During November he was a Chief Speaker at the Teachers' Refresher Course at Institute of Physics.

Professor George Dracoulis gave a lecture on the subject of Metastable Nuclear States, Structure and Application at the May meeting of the Victorian Branch of the Australian Institute of Physics, on the occasion of the presentation of his award, the 2004 Walter Boas Medal.

In August, Professor George Dracoulis and Professor Aidan Byrne and Dr Ian Smith (CEO, ANSTO) were discussion leaders at an Australian Academy of Science Soiree on the topic of Nuclear Power and Related Matters.

Professor Rob Elliman presented a Colloquium at Melbourne University, School of Physics in November.

Dr Matthew Hole, Professor John O'Connor (University of Newcastle) and Dr Boyd Blackwell gave evidence to the House of Representatives Standing Committee on Industry and Resources Inquiry into Developing Australia's Non-fossil Fuel Energy Industry.

Professor C. Jagadish gave IEEE LEOS Distinguished Lecturer Seminars at various parts of the World.

Dr Sergey Kun has continued to be Visiting Professor at the Center for Physical Sciences, National University of Mexico (UNAM), Cuernavaca, Mexico.

Dr Dragomir Neshev gave a seminar at the Department of Physics and Astronomy at San Francisco State University, USA.

Dr Mark Ridgway presented the seminar The Australian Synchrotron – A Huge Opportunity for the Science Industry as part of the Science Industry Australia Seminar Series, Canberra.
Appendix – Service to Outside Organisations

Professor N.N. Akhmediev
Member, Scientific Program Committee and Chair, Mini-symposium, 4th IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena, Georgia, USA, April
Member, Conference Committee, Nonlinear Guided Waves and Their Applications, Dresden, Germany, September
Associate Editor, Optics Express

Dr T. Aste
Organiser, Italy-Australia Science Forum in the ACT "Materials and Complexity", Research School of Physical Sciences and Engineering, The Australian National University, March
Member, Scientific Committee, International Conference Complex Systems, part of the SPIE International Symposium on Microelectronics, MEMS and Nanotechnology, Brisbane, December
Member, Scientific Committee, International Conference Econophysics Colloquium, The Research School of Physical Sciences, The Australian National University, Canberra, November
Member, Scientific Committee, Association pour L'Etude de la Micromécanique des Milieux Granulaires (AEMMG)

Dr K.G.H. Baldwin
Chair, International Council on Quantum Electronics
Chair, Australian Institute of Physics Congress
Member, Liaison Committee, Australian Conference on Optics, Lasers and Spectroscopy
Member, Australian Optical Society Council
Chair, Science Policy Committee, Federation of Australian Scientific and Technological Societies
Member, Australasian Council on Quantum Electronics
Director at Large, Board, Optical Society of America
Member, Program Committee, NZ & Australian Quantum-Atom Optics Workshop, Queenstown, 28 November – 1 December

Dr T.T. Barrows
Member, Committee, Australasian Quaternary Association
Member, National Committee for Quaternary Research, Academy of Sciences

Professor M.T. Batchelor
Member, Editorial Board, Journal of Physics A: Mathematical and General
Member, Editorial Board, Journal of Statistical Mechanics
Member, Program Committee, Australian Institute of Physics Congress
Organiser, New Frontiers in Exactly Solved Models, Australian National University
Organiser, Integrability, Spin Systems and Ultracold Quantum Gases, University of Tokyo/Australian National University Workshop, Tokyo, Japan
Member, International Advisory and Organisation Committee, First Australian/Italian Workshop on Statistical Physics – Statistical Systems out of Equilibrium: Random Systems and Complex Fluids, Gold Coast
**Dr B.D. Blackwell**  
Member, Commission on Plasma Physics (C16), International Union for Pure and Applied Physics  
Member, Executive Committee, International Energy Agency Implementing Agreement for Research on Stellarators

**Dr G.G. Borg**  
Editor, Czech Journal of Physics

**Professor R.W. Boswell**  
Chair and Convenor, Asia Pacific Conference on Plasma Science and Technology  
Member, Forum for Europe and Australian Science and Technology  
Member, Foreign Relations Committee, ATSE  
President, Australia France Association of Scientific and Technical Experts

**Professor P. Bouwknegt**  
Member, Council, Australian Mathematical Society (until September 2005)  
Vice President, Australian Mathematical Society, Annual Conferences  
Member, Accreditation Committee, Australian Mathematical Society  
Member, Committee, International Union of Pure and Applied Physics, C18 Commission of Mathematical Physics (Vice-Chair since October 2005)

**Professor S.J. Buckman**  
Chair, ACT Fulbright Alumni Association

**Professor A.P. Byrne**  
Member, Australian Academy of Science Physics Panel  
Member, Organising and Program Committees, 16th Biennial Congress of the Australian Institute of Physics, Canberra  
Member, Committee (Secretary/Treasurer), Nuclear and Particle Physics Group (NUPP), Australian Institute of Physics  
Referee, The Engineering and Physical Sciences Research Council (EPSRC), UK proposals  
Member, Australian Academy of Science National Committee for Physics

**Dr C. Charles**  
Organiser, Helicon Double Layer Workshop, Australian National University, March

**Dr Y. Chen**  
Program Leader, ARC Centre of Functional Nanomaterials.  
Member, Organising Committee, Conference of Advances in Functional Nanomaterials  
Member, Committee, Institute of Physics, ACT Branch  
Member, Instrument Advisory Team, ANSTO  
Ozreader, Australian Research Council  
Reviewer, European Young Investigator Awards  
Reviewer, Canadian Research Development Grants  
Reviewer, Research Grants for Department of Energy, USA  
Reviewer, US-Israel Collaborative Research Programs
Reviewer, Chuen Hui Projects, Department of Science and Technology, China

**Dr V. Craig**  
Chair, Organising Committee, 8th Japan-Australia Colloid and Interface Gakki, Terrigal, NSW  
ACT Representative, Colloid and Surface Science Division, RACI

**Dr T. Dall**  
Tutor, School of Physical, Environmental and Mathematical Sciences (formerly School of Physics), Australian Defence Force Academy

**Dr M. Das**  
Member, Editorial Advisory Board, Journal of Physics, Condensed Matter  
Member, International Advisory Board, Workshop on Condensed Matter Theories, Kyoto, Japan

**Dr M. Dasgupta**  
Member, Committee, Nuclear and Particle Physics Group, Australian Institute of Physics  
Member, International Advisory Committee, Nuclear Structure, Astrophysics and Reactions International Conference, Surrey, UK, January  
Member, Organising Committee, Symposium on Science with Rare Isotope Beams, Honolulu, December  
Member, International Advisory Committee, Seventh International Conference on Radioactive Nuclear Beams (RNB7), Italy, July 2006

**Professor R.L. Dewar**  
Editorial Board, Plasma and Fusion Research, Japan Society of Plasma Science and Nuclear Fusion Research  
Member, IUPAP C16 Commission on Plasma Physics  
Member, International Advisory Committee, International Congress on Plasma Physics 2006  
Member, International Advisory Committee, Asia-Pacific Plasma Theory Conference (APPTC'05)

**Dr T. Di Matteo**  
Co-Organiser, Italy-Australia Science Forum in the ACT "Materials and Complexity", Research School of Physical Sciences and Engineering, The Australian National University, March  
Member, Scientific Committee, International Conference Complex Systems, part of the SPIE International Symposium on Microelectronics, MEMS and Nanotechnology, Brisbane, December  
Member, Scientific Committee, International Conference Econophysics Colloquium, The Research School of Physical Sciences, The Australian National University, Canberra, November  
Member, Scientific Committee, International Conference, Noise and Fluctuations in Econophysics and Finance, part of the Third SPIE International Symposium on Fluctuations and Noise, Austin, USA, May  
Member, Scientific Committee, Association pour L'Etude de la Micromécanique des Milieux Granulaires (AEMMG)  
Member, Management Committee, EU collaboration, COST P10 "Physics of Risk" (2003–2007)

**Professor G.D. Dracoulis**  
Member, Committee, Nuclear and Particle Physics Group, Australian Institute of Physics
Member, North America Committee, Australian Academy of Science, International Program of Scientific visits
Member, Australian Academy of Science, Reactor Working Group
ANU Representative, Engineering and Physical Sciences Research Council (UK), ANU-EPSRC Agreement: Beam Time Allocation
Referee, Engineering and Physical Sciences Research Council (UK), Senior Research Fellowship Scheme
Expert Referee, Engineering and Physical Sciences Research Council (UK), Research Grants; Nuclear Physics Program
Evaluator, Foundation for Research Development (South Africa) – Evaluation of Research Outputs of Principal Grant Holders
Reader, Physical and Earth Sciences, Australian Research Council
Discussion Leader, Australian Academy of Science Soiree on Advances in Nuclear Energy, August
Member, Expert Subcommittee, National Collaborative Research Infrastructure Scheme (NCRIS), Department of Education, Science and Training

**Professor R. Elliman**
Immediate Past President, Australian Institute of Physics
Member, ACT Branch Committee, Australian Institute of Physics
Member, International Committee, International Conference on Ion Beam Modification of Materials
Member, International Committee, International Conference on Ion Beam Analysis
Member, International Committee, International Conference on Atomic Collisions in Solids
Member, Editorial Advisory Board, Vacuum
Member, External Review Committee, Surrey Ion Beam Centre, Surrey University, UK
Member, Divisional Committee, Electronic Materials and Processing Division, International Union of Vacuum Science Techniques and Applications (IUVSTA)
OzReader, Australian Research Council
Reviewer, ASTAR, Singapore
Reviewer, National Science Foundation, USA
Reviewer, Academic Research Fund, National University of Singapore
Reviewer, Natural Sciences and Engineering Research Council (NSERC), Canada
Member, Organising and Program Committees, 16th Australian Institute of Physics Biennial Congress
Member, Program Committee, 17th International Conference on Ion Beam Analysis, Seville, Spain
Member, Organising and Program Committee, 14th AINSE Conference on Nuclear and Complementary Techniques of Analysis, Wellington, New Zealand, November
Member, Program Committee, SPIE Conference on Microelectronics, MEMS and Nanotechnology, Brisbane, December

**Dr L.K. Fifield**
Referee, Major Grant Proposal, Scottish Higher Education Funding Council
ANU Nominee, ACT Radiation Council

**Professor N. Fletcher**
Associate Editor, Journal of the Acoustical Society of America
Member, Editorial Board, Journal of Sound and Vibration
Member, House Committee, Australian Academy of Science
Independent Chair, ARC Nanotechnology Network

Dr S.T. Gibson
Website Database Manager, Australian Optical Society

Dr M. Gulacsi
Associate Editor, Philosophical Magazine

Professor J.H. Harris
Member, Stellarator Physics Advisory Committee, Princeton Plasma Physics Laboratory, Princeton, USA
Member, Plasma Specialist Committee, AINSE
Member, Executive Committee, International Energy Agency Implementing Agreement for Research on Stellarators
Member, Program Committee, 16th Australian Institute of Physics Congress

Professor D.J. Hinde
Member, International Advisory Committee, Ninth International Conference on Nucleus-Nucleus Collisions, Brazil, 2006
Member, International Advisory Committee, FUSION06 International Conference, Italy 2006
Member, Program Committee, 17th Biennial Congress of the Australian Institute of Physics, Brisbane, December 2006
Member, Committee, Nuclear and Particle Physics Group (NUPP), Australian Institute of Physics
Convenor, NUPP Contribution to the AIP Congress, Brisbane, December 2006

Dr J. Howard
Member, Editorial Board, Plasma Physics and Controlled Fusion
Treasurer, 16th Australian Institute of Physics Congress
Member, Program Committee, 16th Australian Institute of Physics Congress

Professor S.T. Hyde
Consultant, International Union of Crystallography Mathematical Crystallography Commission
Commissioning Editor, Current Opinion in Colloid and Interface Science, Liquid Crystals section

Professor C. Jagadish
Chair, IEEE Australian Chapter of Electron Devices and Lasers & Electro-Optics Societies
Member, Meetings Committee, IEEE Electron Devices Society, USA
Associate Editor, Journal of Nanoscience and Nanotechnology
Member, AdCom, IEEE Nanotechnology Council
Chair, IEEE Nano-Optoelectronics and Nano-Photonics Technical Committee, Nanotechnology Council
Member, IEEE Spintronics Technical Committee, Nanotechnology Council
Member, Editorial Board, Journal of Materials Science for Electronics
Member, International Editorial Advisory Board, Journal of the Optical Society of Korea
Associate Editor, Journal of Lightwave Technology
Member, Electronics Division Executive Committee, The Electrochemical Society, Inc.
Vice-President (Publications), IEEE Nanotechnology Council
Member, Executive Committee, IEEE Nanotechnology Council
Member, Editorial Advisory Board, Electrochemical and Solid State Letters
Member, IEEE Ethics and Member Conduct Committee, Hearing Panel
Member, Editorial Advisory Board, Nanotech Briefs
Member, Nano-Photonics Technical Committee, IEEE Lasers and Electro-Optics Society
Member, Award Committee, IEEE Lasers and Electro-Optics Society Distinguished Lecturer
Member, Award Committee, IEEE Lasers and Electro-Optics Society Aaron Kressel
Member, Working Group on Nanotechnology, Prime Minister's Science, Engineering and Innovation Council
Member, Nick Holonyak, Jr. Award Committee, Optical Society of America
Member, International Advisory Board, IEE Proceedings on Circuits, Devices and Systems
Chair, Publications Committee, IEEE Nanotechnology Council
Member, Australian Government Reference Group on Nanotechnology
Member, Editorial Board, Nanoscale Research Letters
Member, Editorial Board, Ethics in Nanotechnology
Member, International Advisory Committee, COBRA, Inter University Research Institute for Communications Technology, Eindhoven University of Technology, The Netherlands
Member, International Advisory Board, The MacDiarmid Institute for Advanced Materials and Nanotechnology, Centre of Research Excellence, Victoria University of Wellington and University of Canterbury, New Zealand
Member, Review Committee, Nanostructural Analysis Network Organisation (NANO), Major National Research Facility
International Expert Reviewer, Swedish Microelectronics Research Program, Swedish Foundation for Strategic Research
International Reader, Australian Research Council
Reviewer, Grants Program, Nanyang Technological University of Singapore
Reviewer, Agency for Science, Technology and Research, Singapore
Member, College of Reviewers, Natural Sciences and Engineering Research Council of Canada
Member, EPSRC Peer Review College, UK
Reviewer, Hong Kong Research Grants Council, HK
Reviewer, Marsden Fund, New Zealand
Member, Program Committee, Materials and Nanotechnologies, 20th Congress of the International Commission for Optics-Challenging Optics in Science and Technology, China, August
Member, Program Committee, Nanotechnology II, SPIE's Second International Symposium on Microtechnologies for the New Millennium 2005, Seville, Spain, May
Member, Technical Program Committee, OSA Topical Meeting on Information Photonics, Hyannis, USA
Member, International Advisory Committee, Symposium M: Photonic Materials and Devices, 3rd International Conference on Materials for Advanced Technology (ICMAT 2005), Singapore, July
Member, International Advisory Committee, International Conference on Optics and Optoelectronics (ICOL 2005), Dehradun, India, December
Member, Program Committee, First IEEE International Workshop on Design and Test of Defect-Tolerant Nanoscale Architectures (NanoArch 05), Palm Springs, USA, April
Member, Program Committee, 2005 IEEE Nanotechnology Conference, Nagoya, Japan, July
Member, International Program Committee, 2nd International Conference on Advanced Materials and Nanotechnology, Queenstown, New Zealand, February
Co-Chair, Program Committee, Conference on BioMEMS and Nanotechnology II, SPIE International Symposium on Microelectronics, MEMS and Nanotechnology, Brisbane, December
Co-Chair, Program Committee, Conference on Device and Process Technologies for Microelectronics, MEMS and Photonics II, SPIE International Symposium on Microelectronics, MEMS and Nanotechnology, Brisbane, December
Member, Program Committee, Conference on Photonics: Design, Technology and Packaging II, SPIE International Symposium on Microelectronics, MEMS and Nanotechnology, Brisbane, December
Chair, Local Organising Committee, Annual Meeting of the IEEE Lasers and Electro-Optics Society, Sydney, October
Member, International Advisory Board, BioNano – The Next Frontier, 2005 Sir Mark Oliphant Conference, Brisbane, December
Member, International Advisory Committee, International Conference on Advanced Optoelectronics and Lasers, Yalta, Crimea, Ukraine, September

Dr. T. Kibédi
Australian Representative, International Network of Nuclear Structure and Decay Data (NSDD) Evaluators, IAEA
Honorary Treasurer, ACT Branch of the Australian Institute of Physics

Professor Yu.S. Kivshar
Member, US-Canada-Mexico Travel Grant Committee, Australia Academy of Science
Member, Election Committee, Australian Academy of Science
Co-chair, SPIE Meeting (Brisbane, Australia)
Member, International Program Committee, Photons'05, UK
Member, Sub-committee, OSA Topical Meeting on Nonlinear Guided Waves and Applications
Member, Nonlinear Optics Committee, LEOS Annual Conference, Sydney
Member, Editorial Board, Optics Communications
Member, Advisory Board, Chaos: Interdisciplinary Journal of Nonlinear Science
Project Reviewer, National Science Foundation
Project Reviewer, Israeli-Germany Collaborative Grant
Project Reviewer, Singapore Research Council
Project Reviewer, Dutch Research Council
Project Reviewer, Canadian Research Council
Project Reviewer, Chilean Research Foundation

Professor B.R. Lewis
Independent Expert, DEST Review of the Australian Synchrotron Research Program MNRF

Professor J.D. Love
Chair, Steering Committee, Australian Conference on Optical Fibre Technology
Chair, 14th International Workshop on Optical; Waveguide Theory, Sydney, July
Chair, Organising Committee, 21st International Congress on Optics/Australian Optical Society Conference/OptoElectronics Communication Conference/Australian Conference on Optical Fibre Technology, Sydney, July 2008
Co-Chair, International Conference on Materials for Advanced Technologies, Singapore, July 2007
Director, ACT Siemens Science & Engineering Experience
Director, Education & Training, Australian Photonics CRC
Group Head ANU, Australian Photonics CRC
International Advisor, Network Technology Research Centre, Nanyang Technological University, Singapore
Member, Long Range Advisory Committee, International Conference on Education & Training in Optics & Photonics
Member, International Advisory Committee, European Conference on Optical Communications
Member, International Commission for Optics Bureau
Member, Korea-Australia Photonics Association Committee
Member, Council of the Australian Optical Society
Member, Executive Committee, Australian Photonics CRC
Member, Organising Committee, OSA Topical Meeting on Bragg Gratings, Poling & Photosensitivity & Australian Conference on Optical Fibre Technology Conference Sydney, July
Member, Organising Committee, Australian Institute of Physics Congress, Canberra
Member, International Advisory Committee, OptoElectronics & Communications Conference
Reader & Assessor, Australian Research Council
Reader & Assessor, Hong Kong Research Council
Reader & Assessor, Singapore Research Council
Reader & Assessor, Engineering & Physical Sciences Research Council (UK)
Vice-President, International Commission for Optics

Mr A. Matthews
Member, Council, University of Canberra

Dr F.P. Mills
Member, National Committee, Astronomy Decadal Plan Working Group for Stars and Planets
Member, ACT Chapter Committee, Australian Meteorological and Oceanographic Society

Dr M.C. Ridgway
Member, International Committee, Radiation Effects in Insulators International Conference Series
Chair, Photon Factory Specialist Committee, Australian Synchrotron Research Program
Member, Coordinating Committee, Australian Synchrotron Research Program
Member, Photon Factory Steering Committee, Australian Synchrotron Research Program
Member, National Scientific Advisory Committee, Australian Synchrotron Project
Chair, Beamline Advisory Panel (X-ray Absorption Spectroscopy), Australian Synchrotron Project
Member, Beamlines Advisory Group, Australian Synchrotron Project
Member, National Committee on Scientific Directions in Synchrotron-based Science, Australian Synchrotron Research Program/Australian Synchrotron Project
Member, Program Committee, 16th Australian Institute of Physics Congress
Member, Organising Committee/Program Committee, 2005 Australian Synchrotron Research Program/Australian Synchrotron Users Meeting
**Dr M.G. Shats**  
Co-Chair, Organising Committee, Workshop on Turbulence and Coherent Structures, Canberra 2006  
Convenor, 19th International Canberra Summer School Turbulence and Coherent Structures in Fluids, Turbulence and Granular Flows, January 2006

**Dr A.E. Stuchbery**  
Chair, Nuclear and Particle Physics Group (NUPP), Australian Institute of Physics

**Dr A.A. Sukhorukov**  
Member, Program Sub-committee, Nonlinear Periodic Systems, OSA Topical Meeting on Nonlinear Guided Waves and their Applications, Dresden, Germany, September  
Session Chair, International Workshop New Trends in Nonlinear Optics and Beyond, Dresden, Germany, September

**Dr J.P Sullivan**  
Member, International Organising Committee, International Workshop on Low Energy Positron and Positronium Physics

**Dr H.H. Tan**  
Senior Member, Institute of Electrical and Electronics Engineering (IEEE)  
Vice Chair, IEEE ACT Section  
Distinguished Lecturer, IEEE Electron Devices Society  
Member, Technical Committee, Nano-Optoelectronics and Nano-Photonics, IEEE Nanotechnology Council  
Member, Program Sub-committee, Annual Meeting, IEEE Lasers and Electro-Optics Society, Sydney  
Member, Program Committee, Conference on Optoelectronic and Microelectronic Materials and Devices (COMMAD), Brisbane  
Member, Program Committee, SPIE Conference on Nano and Microtechnology: Materials, Processes, Packaging and Systems I, Sydney  
OzReader, Australian Research Council

**Dr D.C. Weisser**  
Expert Mission, UN International Atomic Energy Agency to Autoridad Regulatoria Nuclear (ARN), Buenos Aires, Argentina

**Professor J.S. Williams**  
President, Australian Materials Research Society  
Member, Board, Australian Materials Research Institute  
Member, Board, CRC for Functional Communication Services  
Member, Board, National Youth Science Forum Council  
Member, Board, Australian Photonics CRC  
Member, Adhering Body Commission, International Union of Materials Research Society  
Member, International Union of Materials Research Society Commission on Membership Affairs  
Member, Board, Australian Materials Technology Network
Member, Board, Materials Australia
Member, WRIota Pty Ltd
Member, Panel, Assessment of the Quality of Research Output of the University of Queensland School of Physical Sciences
Member, Advisory Committee, University of Sydney Solar Science Pty Ltd (USSS)
Director, Acton Semiconductors Pty Ltd

Dr A.N. Wilson
Deputy Chair, Meetings Secretary and Web Editor, Australian Institute of Physics
Member, Organising and Program Committees, 16th Biennial Congress of the Australian Institute of Physics, Canberra
Appendix – Postdoctoral Fellowship Completions and Destinations

Dr Manuel Forcales completed his term in October and took up a position at the Institut de Ciències Fotòniques Parc Mediterrani de la Tecnologia, Barcelona, Spain.

Dr Chris Glover completed his term in July and is now working on the Australian Synchrotron Project in Melbourne, Australia.

Dr Mika Kohonen moved onto an Australian Research Fellowship at the Australian National University.

Dr Jun Matsumoto finished in September and took up a position at RIKEN, Japan.

Dr Megan O'Mara completed her term in September and took up a position in the Department of Biological Sciences at the University of Calgary, Canada.
# Appendix – Students

## Other Supervised Undergraduate Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Home University/ANU Faculty</th>
<th>Host Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr John Altin</td>
<td>Physics Department, ANU</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Roshan Banan</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Mr John Bartholomew</td>
<td>Department of Physics, ANU</td>
<td>NP/TP</td>
</tr>
<tr>
<td>Mr Gaurav Bhatnagar</td>
<td>Department of Engineering, ANU</td>
<td>OSG</td>
</tr>
<tr>
<td>Ms Rachel Blaker</td>
<td>Physics Department, ANU</td>
<td>TP</td>
</tr>
<tr>
<td>Mr James Boxall</td>
<td>Department of Engineering, ANU</td>
<td>OSG</td>
</tr>
<tr>
<td>Mr Michael Chen</td>
<td>Physics Department, ANU</td>
<td>NLPC</td>
</tr>
<tr>
<td>Ms Lai San Chu</td>
<td>Physics Department, ANU</td>
<td>PRL-SP3</td>
</tr>
<tr>
<td>Mr Bhaskar Dantuliri</td>
<td>Department of Computer Sciences, ANU</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Mr Graham Dennis</td>
<td>Physics Department, ANU</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Nathan Deutscher</td>
<td>Department of Mathematics, ANU</td>
<td>AM</td>
</tr>
<tr>
<td>Mr Si Chao Du</td>
<td>Department of Physics, ANU</td>
<td>OSG</td>
</tr>
<tr>
<td>Ms Myfanwy Evans</td>
<td>Department of Mathematics, ANU</td>
<td>AM</td>
</tr>
<tr>
<td>Mr Stefan Foudoulis</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Mr Simon Franklin</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>EME</td>
</tr>
<tr>
<td>Mr Mark Gwynneth</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Ms Kimberley Heenan</td>
<td>Physics Department, ANU</td>
<td>TP</td>
</tr>
<tr>
<td>Ms Kersten Helfrich</td>
<td>Physics Department, ANU</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Ho Ka Ho</td>
<td>Department of Engineering, ANU</td>
<td>AM</td>
</tr>
<tr>
<td>Mr Ben Hoy</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>EME</td>
</tr>
<tr>
<td>Mr Michael Hush</td>
<td>Department of Physics, ANU</td>
<td>NP</td>
</tr>
<tr>
<td>Mr Daniel Imrich</td>
<td>University of Vienna, Austria</td>
<td>NP</td>
</tr>
<tr>
<td>Ms Priscilla Kan-John</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Mr Peter Kuffner</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>EME</td>
</tr>
<tr>
<td>Mr Jen-Yee Lee</td>
<td>Physics Department, ANU</td>
<td>NP/TP</td>
</tr>
<tr>
<td>Mr Michael O'Connor</td>
<td>Faculty of Engineering and IT, ANU</td>
<td>EME</td>
</tr>
<tr>
<td>Mr Rishni Ratnam</td>
<td>Mathematical Sciences Institute</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Peter Row</td>
<td>Department of Engineering, ANU</td>
<td>AM</td>
</tr>
</tbody>
</table>
Mr Robert Saye  Mathematical Sciences Institute  TP
Mr Sonam Shelly  Earth Sciences, ANU  AM
Ms Erin Stonestreet  Department of Engineering, ANU  OSG
Ms Melissa Tacy  Physics Department, ANU  TP
Ms Monica Trench  Department of Engineering, ANU  AM
Mr Tim Trudgian  Mathematical Sciences Institute  TP
Ms Anna Elizabeth Webster  Physics Department, ANU  NLPC
Mr Sebastian Yuen  Mathematical Sciences Institute  TP

Summer/Winter Scholars

<table>
<thead>
<tr>
<th>Name</th>
<th>Home University</th>
<th>Host Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Reanna Albion</td>
<td>Australian National University</td>
<td>EME</td>
</tr>
<tr>
<td>Ms Sheon Chua</td>
<td>Australian National University</td>
<td>LPC</td>
</tr>
<tr>
<td>Mr Chris Colyer</td>
<td>Australian National University</td>
<td>AMPL</td>
</tr>
<tr>
<td>Mr Bhaskar Dantuluri</td>
<td>Australian National University</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Ms Rosemary Forecast</td>
<td>Monash University</td>
<td>LPC/OSG</td>
</tr>
<tr>
<td>Mr Mario Hasanakos</td>
<td>Monash University</td>
<td>LPC</td>
</tr>
<tr>
<td>Mr Morgan Hedges</td>
<td>Wollongong University</td>
<td>LPC</td>
</tr>
<tr>
<td>Mr Adric Jones</td>
<td>Australian National University</td>
<td>AMPL</td>
</tr>
<tr>
<td>Ms Priscilla Kan-John</td>
<td>Australian National University</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Ms Emma Kirby</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Niraj Lal</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Jen Yee Lee</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Peter Liddicoat</td>
<td>Australian National University</td>
<td>EME</td>
</tr>
<tr>
<td>Ms Ruth Mills</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Jin Ng</td>
<td>University of Sydney</td>
<td>NP</td>
</tr>
<tr>
<td>Ms Aroon O'Brien</td>
<td>Canterbury, NZ</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Rishni Ratnam</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Nicholas Taylor</td>
<td>Australian National University</td>
<td>PRL-Toro</td>
</tr>
<tr>
<td>Mr Tim Trudgian</td>
<td>Australian National University</td>
<td>TP</td>
</tr>
<tr>
<td>Mr Andrew Vicquerat</td>
<td>Sydney University</td>
<td>PRL-SP3</td>
</tr>
<tr>
<td>Mr Felix White</td>
<td>University of Sydney</td>
<td>AM</td>
</tr>
</tbody>
</table>
### Visiting Scholars

<table>
<thead>
<tr>
<th>Name</th>
<th>Home University</th>
<th>Host Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms Chancelle Abdiprancto</td>
<td>University of Wollongong</td>
<td>NP</td>
</tr>
<tr>
<td>Mr Mattias Abelsson</td>
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<td>Ms Chiara Testa</td>
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Ms Kelly Vaughan  University of York, UK   NP
Mr Nenad Vukmirovic University of Leeds, UK   EME
Mr Kouhei Washiyama  Tohoku University, Japan   NP
Mr Jonathon Wilkins University of Wollongong   NP
Ms Nicole Willetts University of Wollongong   NP
Ms Anthea Woolastone University of Wollongong   NP
Mr Muhammad Zamrun Tohoku University, Japan   NP

**Work Experience**

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<th>Host Department</th>
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<td>Mr Jeremie Daelen</td>
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<td>Mr Andrew Micallef</td>
<td>Melrose High School</td>
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<td>Ms Charlotte Petersen</td>
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Appendix – University and School Services

Membership of regular School Committees is given under Internal Management (taken from Faculty Board Minutes)

Dr K. Baldwin  
Deputy Director (from November)

Dr T.T. Barrows  
Member, Board, National Institute for the Environment

Professor M.T. Batchelor  
Member, Promotions Committee, Mathematical Sciences Institute  
Member, Board, Mathematical Sciences Institute  
Coordinator, Mathematical Physics Program, Mathematical Sciences Institute  
Member, Management Committee, COSNet

Professor R.W. Boswell  
Chair, Faculty RSPhysSE  
Member, Tenure Committee RSPhysSE

Professor S.J. Buckman  
Associate Director (until November)  
Member, University Research Committee

Professor A.P. Byrne  
Member, Staff Selection Panels, Faculty of Science  
Member, Staff Selection Panels, Department of Nuclear Physics  
Convener, Workshop in Nuclear Techniques (September)  
Member, ANU Scholarships Selection Panel  
Coordinating Radiation Safety Officer, Faculty of Science  
Member, Research Committee, Faculty of Science  
Member, Local Promotions Committee, Faculty of Science  
Member, Working for Establishment of ANU Secondary College

Dr S.H. Chung  
Member, NH&MRC Equipment Grant Committee

Mr A.K. Cooper  
Occupational Health and Safety Officer, Department of Nuclear Physics  
Deputy Chief Fire Warden, Department of Nuclear Physics

Dr M. Das  
Member, IAS Forum
Dr M. Dasgupta
Member, Staff Selection Panel, Faculty of Science
Assistant Coordinator, Graduate Student Program, RSPhysSE

Mr G.C.J. Davies
Member, Radiation Committee

Professor G.D. Dracoulis
Member, Staff Selection Panels, Department of Nuclear Physics

Professor R.G. Elliman
Member, ANU Academic Board
Member, ANU Vice Chancellor’s Awards Committee
Member, ANU Physical Sciences Library Committee (PhysLAC)
Member, ANU Major Equipment Committee (MEC)
Member, ANU Microscopy Strategic Advisory Group (MSTAG)
Member, ANU Leadership Program Steering Committee
Chair, RSPhysSE Space Utilisation Committee

Dr L.K. Fifield
Chair, Radiation Safety Sub-committee, ANU Occupational Health and Safety Policy Committee
Radiation Officer, Department of Nuclear Physics
Member, Reclassification Sub-committee, RSPhysSE
Member, Selection Committee for Standard Position in Seismology, RSES

Dr S.T. Gibson
Member, Board of Studies

Professor J.H. Harris
Member, ANU Research Committee
Referee, IAS Performance and Planning Fund
IAS Representative, Review of the Faculties

Dr J. Howard
School Honours Coordinator

Professor C. Jagadish
Member, University Promotions Committee
Member, Management Board, National Institute of Engineering and Information Science
Chair, School Seminar Program Committee

Dr T. Kibédi
Librarian, Department of Nuclear Physics Library

Dr G.J. Lane
Member, Staff Selection Panels, Department of Nuclear Physics

Professor B.R. Lewis
Member, Science Library Advisory Committee
Member, Campus Planning and Development Committee
Member, Institute of Advanced Studies Forum
Member, Faculties Forum
Member, Divisional Information Committee Science, Health and Engineering

Dr N. Lobanov
Chief Fire Warden, Department of Nuclear Physics

Dr F.P. Mills
Member, Centre for Resource and Environmental Studies Faculty Board Member
Member, Divisional Scholarship Sub-Committee for APA awards

Mrs M.F. O'Neill
Occupational Strains Liaison Officer, Department of Nuclear Physics

Dr M.C. Ridgway
Member, Steering Committee, Centre for the Science and Engineering of Materials
Member, Board of Studies, Graduate Program in Physics
Member, Board of Studies, Graduate Program in Environment

Dr M.G. Shats
Member, Physics Library Advisory Committee

Ms A. Smith
Member, RSPhysSE Area Classification Advisory Committee
Member, ANU Career Development Scheme

Dr A.E. Stuchbery
Member, Physical Sciences Library Advisory Committee (PhysLAC)

Dr H.H. Tan
Member, Board of Graduate Studies in Engineering and Information Sciences

Dr S.G. Tims
Deputy Radiation Officer, Department of Nuclear Physics

Mr R.B. Turkentine
Member, Tender Evaluation Committee, supply of Liquid Nitrogen and Compressed Gases

Mr H.J. Wallace
First Aid Officer, Department of Nuclear Physics
**Dr D.C. Weisser**
Chair, Reclassification Advisory Committee, RSPhysSE
Member, Staff Selection Panel, RSPhysSE

**Professor J.S. Williams**
Convenor, National Institute for Physical Sciences
Chair, Board Science ANU
Member, BIAS
Member, ANU Deans & Directors
Member, RSAA Advisory Board
Member, University Committee on Research Policy (UCRP)
Member, Divisional Planning Committee – Science, Health and Engineering
Member, Divisional Research Committee - Science, Health and Engineering
Member, ANU Promotions Working Party
Member, Advisory Board, ARC Centre of Excellence for Ultra-high bandwidth Devices for Optical Systems (CUDOS)

**Dr A.N. Wilson**
Academic Sub-Editor, RSPhysSE Annual Report
Editor, Department of Nuclear Physics Annual Report
# Appendix – Visitors

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<tr>
<th>Name</th>
<th>Home University/Institute</th>
<th>Host Department</th>
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<td>Professor Y. Abe</td>
<td>Kyoto University, Japan</td>
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<td>Dr M. Adler</td>
<td>Institut de Physique du Globe de Paris, France</td>
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