

## **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

*14<sup>th</sup> 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. Petravac  
*High Resolution EXAFS Characterisation of Nitrogen States in N-doped ZnO*  
2005 \$ 11,300

Dr A.E. Stuchbery  
*Excited State Configurations in <sup>38</sup>S and <sup>40</sup>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)

*Millennial-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. Petracic 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) <i>Boron Nitride Nanotube Synthesis and Applications</i> 2004 – 2006	\$ 410,000
Dr V. Craig, Associate Professor S. Biggs and Dr C. Neto (APD Fellowship) <i>Nanorheology: Hydrodynamic Slip in Newtonian Fluids</i> 2003 – 2006	\$ 291,000
Professor R.G. Elliman, Dr E. Krausz, Dr T.D.M. Weijers (APD Fellowship) and Associate Professor S. Choi <i>The Physical and Optical Properties of Self-assembled Si Nanocrystals</i> 2003 – 2005	\$ 318,035
Dr L. Fu <i>Growth and Intermixing of Quantum Dots for Multi Wavelength Infrared Photodetectors</i> 2003 – 2005	\$ 255,000
Dr C.J. Glover <i>Applying Advanced Synchrotron Radiation Based Techniques to Determine the Connection between the Geometric and Electronic Structure of Semiconductor Nanocrystals</i> 2003 – 2005	\$ 249,500
Dr P. Kluth <i>Structural Characterisation of Ion Beam Synthesized Metallic Nanocrystals Using Advanced Synchrotron Based Analytical Techniques</i> 2005 – 2008	\$ 248,000
Dr S. Kluth <i>Ion Implantation Induced Diffusion and Defect Evolution in Si Nanostructures</i> 2003 – 2005	\$ 242,700
Dr M.M. Kohonen <i>Wet Granular Materials: A Three-dimensional Study Using X-ray Microtomography</i>	

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* Total (\$ 726,000)

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*

2003 – 2005 \$ 18,000

Dr S.-H. Chung

*Dynamics of Ion Permeation*

2005 – 2009 \$ 890,000

***COSNET Seed Funding***

**ANU Summer School**

Dr T. Aste

*Granular Matter*

2005 – 2006 \$ 5,000

***Defence Science and Technology Organisation***

Dr M. Sellars

*Solid State Quantum Computing*

June 2004 – June 2005 \$ 167,000

***Department of Education, Science and Training***

**Innovation Access Program – International Science & Technology**

Dr J. Howard

*Studies of High Temperature Edge Plasma Confinement Physics Using New Hyperspectral Imaging Systems*

2004 – 2006 \$ 173,690

Professor B.R. Lewis

*Fourteenth International Conference on Vacuum Ultraviolet Physics*

2003 – 2005 \$ 55,000

**Externally-led Program**

Professor J.D. Love

*Ultra High Throughput Optical Probes*

2004 – 2006 (ANU Share) \$ 67,500

## ***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