

Appendix 2

Conference Presentations

Conference Name	Location	Date	Presenters	Title
US Gordon Conference on Quantum Information Science	Ventura, USA	27 February-4 March	R.G. Clark	Progress Towards the Demonstration of Single Atom Qubits in Silicon (invited talk)
Korrelationstage 2005	Max Planck Institute for the Physics of Complex Systems, Dresden, Germany	28 February-4 March	A. Weisse	Chebyshev expansion approach to finite-T dynamical correlation functions
UNSW-Singapore Research Workshop	A*STAR-IMRE, Singapore	1 March	A.P. Micolich	Organic Electronics Research at UNSW (invited talk)
International Forum in Astronomy and Astrophysics	Auckland University of Technology, Auckland	3 – 4 March	J.W.V. Storey	Antarctic Astronomy (invited talk)
American Physical Society March Meeting	Los Angeles, USA	21-25 March	M.Y. Simmons	Atomic-Scale Device Fabrication in Silicon (invited talk)
Environmental Nanovector Workshop	Adelaide	7-8 April	G.P. Box	Fine Particle Sampling, Chemical and Physical Characterisation (invited talk) Site Testing (invited talk)
Dome C Meeting	Max Planck Institute for Astronomy, Heidelberg	11 – 12 April	J.W.V. Storey	
Technology Futures Conference	Adelaide	15 April	M.Y. Simmons	Beyond Nanotechnology (invited talk)
17th Intl Clean Air and Environment Conf	Hobart	3-6 May	Z. Bouya, G.P. Box and M.A. Box	Seasonal Cycles in Aerosol Optical Thickness in Two Australian Cities
			S.A. Christopher, M.A. Box, and G.P. Box T. Hallal and G.P. Box	Satellite Remote Sensing of Air Quality Over Australia Seasonal Variations in Size-Resolved Chemistry and Aerosol Optical Properties in Sydney, Australia
Pacific Institute for Theoretical Physics Showcase Conference	Los Angeles, USA	11-16 May	R.G. Clark	Science and Technology Emerging from the Quest for a Quantum Computer (invited talk)
Massive Star Birth (IAU S227) A Crossroads of Astrophysics	Catania, Sicily	16-20 May	I. Bains	The Delta Quadrant Survey
			M.G. Burton C. Purcell T. Hill	The Earliest Stages of Massive Star Formation Hot Molecular Cores Towards Methanol Masers Examining the Evolutionary Sequence of Massive Star Formation-A Possible Precursor to the Methanol Maser
Mopra Millimetre Wave Induction Workshop	Coonabarabran	27-28 May	M.G. Burton M.G. Burton	Millimetre Astronomy and Why It Is Different Millimetre Astronomy and Star Formation
7 mm Science Workshop	ATNF, Epping	31 May	M.G. Burton P. Curmi	The Birth of Hill Regions Proteins, Quantum Mechanics and Light Harvesting
Workshop on Quantum Materials	Heron Island, QLD	1-4 June	A.R. Hamilton A.P. Micolich M.Y. Simmons A. Weisse	Many Body Interactions, Disorder (and Spin-Orbit Coupling) in Low-Dimensional Semiconductor Systems Superconductivity in Ion Implanted Plastic Films Simple Atom Electronics (invited talk)
			A. Weisse	Bose-Einstein Condensation of Magnons in Finite-T Dynamical Correlations: Optical Response of the Anderson Model
			A. Weisse	Chebyshev expansion Method for Finite-T Dynamical Correlations: Optical Response of the Anderson Model

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1st SCAR Workshop on the History of Antarctic Research	Bavarian Academy of Sciences and Humanities, Munich, Germany	2 - 3 June	B. Indermuehle	The History of Astrophysics in Antarctica
Wide Field Survey Telescope at DOME C and A	Beijing Conference Centre, Beijing	3 – 4 June	J.S. Lawrence	Atmospheric Turbulence Measurements at Dome C
Second MNRF Symposium Submillimeter Astronomy in the Era of SMA	ATNF, Mansfield Cambridge, MA, USA	7 June 13 June	J.W.V. Storey J.W.V. Storey W. Couch T. Wong	Why Antarctica? (invited talk) PILOT – the Pathfinder for a Large International Optical Telescope Gemini: Local Activities and International Developments Radio Continuum, CO, and Infrared Emission from Nearby Star Forming Galaxies Probing the Turbulence Profile of Antarctica's Unique Atmosphere Qubits Based on Individual Donors in Silicon Nanostructures (invited talk) Self-Assembled, Covalently Bonded, Organic Structures on Silicon: Hybrid Silicon-Organic Devices Proteins, Quantum Mechanics & Light Harvesting Infrared Astronomy Radio Continuum, CO, and Infrared Emission from Nearby Star Forming Galaxies Modification of Porous Silicon Photonic Crystals for Biological Sensing Applications Searching for Extrasolar Planets From UNSW Variation of Fundamental Constants From Big Bang to Atomic Clocks and QCD Calculations Hunting for Aurorae at Dome C, Antarctica, with Nigel Sky Brightness at Dome C, Antarctica McMISM – Mid infrared Sky Monitor for Antarctica A CH ₃ Cn and HCO* Survey of Southern Methanol Maser Sites
Site Testing and Selection for ELTs Workshop III	University of British Columbia, Vancouver	15 – 16 June	J.W.V. Storey	
Spin and Qubit II Symposium	Copenhagen, Denmark	15-17 June	S.E. Andresen	
XVIIIth Intl Symposium on Bioelectrochemistry and Bioenergetics Quantum Mechanics & Biology Harley Wood Winter School Island Universes: Structure and Evolution of Disk Galaxies	Coimbra, Portugal Macquarie University Gosford NSW Terschelling, Netherlands Sydney	19-24 June July 1 July 3 July	H.G.L. Coster, T.C. Chilcott, T. Böcking, M. James, and K.D. Barrow P. Curmi M.G. Burton T. Wong	
12th Royal Australian Chemical Institute Convention Astronomical Society of Australia	Sydney	3-7 July	K.A. Kilian, T. Böcking, S. Ilyas, K. Gaus, M. Gai, and J.J. Gooding V. Flambaum	
13th Intl Conference on Scanning Tunneling Microscopy/Spectroscopy and Related Techniques	Sapporo, Japan	4 July	W.M. Walsh T.C.G. Reusch, N.J. Curson, S.R. Schofield, M.W. Radny, P.V. Smith, H.F. Wilson, O. Warschkow, N.A. Marks, D.R. McKenzie, T. Hallam, and M.Y. Simmons A.R. Hamilton	ALTA – Australia's 8-metre Antarctic Telescope for the ELT Era HEAT: the High Elevation Antarctic Terahertz Telescope Reversible Changes of Phosphorus Dopants in the Si(001) Surface Induced by Scanning Tunneling Microscopy
ESF Exploratory Workshop on New Phenomena in Superfluidity and Superconductivity Intl Conference on Recent Challenges in Novel Quantum Systems	Camerino, Italy Camerino, Italy	4-5 July 6-8 July	A.R. Hamilton D. Neilson	Bi-layer Quantum Hall Systems: From Spontaneously Broken Symmetries to Exotonic Superfluidity Metallic Behaviour in High Quality Two-Dimensional Electron and Hole Systems in GaAs Metal-Insulator Phenomena in 2D

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Biochemical Engineering XIV: Frontiers and Advances in Biotechnology, Biological and Biomolecular Engineering	Harrison Hot Springs, BC, Canada	10-14 July	Zhao, H., Stevens-Kalceff, M.A., and Doran, P.M.	Production of Semiconductor Quantum Dot Nanoparticles Using Plant Tissue Culture
Counting Complexity	Dunk Island, Australia	10-15 July	C. Hamer J. Oitmaa	The Union Jack Model Models of Ferromagnetism
16th Intl Conf on Electronic Properties of Two-Dimensional Systems (EPZDS 16)	Albuquerque, NM, USA	10-15 July	R. Danneau M.Y. Simmons, F.J. Ruess, K.E. J. Goh, T. Hallam, S.R. Schofield, L. Oberbeck, N.J. Curson, M.J. Butcher, T.C.G. Reusch, A.R. Hamilton, R.G. Clark, and D. Tompsett	Ballistic Transport in One-Dimensional Bilayer Hole Systems Toward Atomic Scale Device Fabrication in Silicon Using Scanning Probe Microscopy
5th International Workshop on Ultra Cold and Cold Neutron Physics and Sources	Peterhof, Russia	13-18 July	V.A. Dzuba O.P. Sushkov	Accurate Calculations for Many-Electron Atoms and Search for Variation of Fundamental Constants A Suggested Search for ²⁰⁷ Pb Nuclear Schiff Moment in PbTiO ₃ Ferroelectric
Conference on Science and Christianity CWAS AstroFest	Canberra Parkes Shire Council Chambers, Parkes Perth	15-17 July 16 – 17 July	R. Stening J.W.V. Storey	Einstein and His Religion Concordia Station, Antarctica - the Best Observing Site on Earth (invited talk)
International Workshop on Nanotechnology 8th Intl Conf on the Structure of Surfaces	University of Munich	17-22 July 18-22 July	M.Y. Simmons M.N. Read	Atomic-Scale Devices in Silicon (invited talk) Tamm Surface Resonances in Low Energy Electron Scattering From Clean Metal Surfaces
Time-Symmetric Approaches to Quantum Mechanics	University of Sydney	23-26 July	D.J. Miller	Quantum Mechanics as a Consistency Condition on Initial and Final Boundary Conditions
Microscopy and Microanalysis 2005 Conference	Honolulu, HI, USA	31 July-5 August	Stevens-Kalceff, M.A., and Sobey, T.L.	Implantation, Sputtering and Electromigration: Kelvin Probe Microscopy of Focussed Ion Beam Processed SIMOX
Neutrons in Biology	ILL, Grenoble, France	August	P. Curmi	The Structure of Troponin: a Calcium Regulated Molecular Switch
News, Expectations and Trends in Statistical Physics (NEXT 2005 Statistical Physics)	Kolymbati, Crete, Greece	13-18 August	G. Morriss	Lyapunov Modes and Time Correlation Functions
Precision Electroweak Interactions	Williamsburg, VA, USA	15-17 August	V. Flambaum	Variation of Fundamental Constants From Big Bang to Atomic Clocks and QCD Calculations (invited talk)
Quantum Computing Program Review	Tampa, USA	22-26 August	V.C. Chan, F.E. Hudson, R. Brenner, S.E. Andresen, A.J. Ferguson, C.C. Escott, T.M. Buehler, D.J. Reilly, E. Gauja, T. Hopf, C. Yang, P-Atom Devices G. Tamanyan, D.N. Jamieson, A.S. Dzurak, and R.G. Clark A.J. Ferguson, N.A. Court, D. Kinion, T.M. Buehler, D.J. Reilly, and R.G. Clark D.R. McCamey, S.E. Andresen, S. Prawer, P.G. Spizzirri, N. Stavrias, W. Hutchison, J.C. McCallum, G. Tamanyan, and R.G. Clark	Transport, Non-Invasive SET Detection and Microwave Spectroscopy of Ion Implanted Si:P Atom-Cluster Pairs and 2-Atom Devices Quantum Computing Program Review Spin-Dependent Tunneling and Electron Spin Coupling in Si:P Devices

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New Theoretical Tools for Nucleon Resonance Analysis	Argonne National Laboratory, USA	29 Aug - 2 September	F. J. Ruess, T. Hallam, K.E.J. Goh, W. Pok, T.C.G. Reusch, L. Oberbeck, N.J. Curson, M.J. Butcher, A.R. Hamilton, and M.Y. Simmons	Towards Precision Qubits Using Scanning Probe Microscopy
European Conference on Surface Science	Berlin, Germany	4 September	V. Flambaum	Variation of Fundamental Constants From Big Bang to Atomic Clocks and QCD Calculations
Capture Gamma-Ray Spectroscopy and Related Topics	Notre Dame, IN, USA	5-9 September	F. J. Ruess	Fabrication of Silicon Devices with Atomically Precise Doping Using Scanning Tunneling Microscopy
6th Intl Symp on Crystalline Organic Metals, Superconductors and Ferromagnets	Key West, FL, USA	11-16 September	V. Flambaum	Parity and Time Reversal Violation in Atoms and Nuclei and Test of the Standard Model
Condensed Matter Theories 29	Intl Institute for Advanced Studies, Kizu, Kyoto, Japan	13-17 September	A.P. Micolich, E. Tavenner, B.J. Powell, A.R. Hamilton, R.H. McKenzie, M.T. Curry, R.E. Giedd, and P. Meredith	Superconductivity in Ion-Beam Metal Mixed Polymers (invited talk)
ARENA Negotiation Meeting	Commissariat à l'Énergie Atomique, France	19-20 September	M.C.B. Ashley	Reentrant Metallic to Insulating Behavior for Diffusive Transport in 2D
Extreme Wide-Field Imaging Surveys	Padua Observatory, Italy	19-20 September	M.C.B. Ashley	Progress on Site-Testing at Dome C
31st Intl Conference on Micro and Nano-Engineering	Vienna, Austria	19-22 September	M.C.B. Ashley	PILOT -- A 2-M Telescope Proposed for Dome C (invited talk)
Spintronics Conference	Posnan, Poland	25-30 September	A.J. Ferguson	Engineering Phosphorus in Silicon Qubit (invited talk)
ComBio	Adelaide	3-7 October	A.J. Ferguson	Spin Blockade in a Mesoscopic Aluminium Island
Direct Imaging of Exoplanets: Science and Techniques. IAU Colloquium #200	Citadel, Villefranche-sur-Mer	3-7 October	P. Curmi J.L. Christiansen	Structural Transitions in CLIC Proteins Searching for Extrasolar Planets From UNSW
18th Midwest Nuclear Theory	Argonne National Laboratory, USA	7-8 October	J.W.V. Storey, J.S. Lawrence, M.C.B. Ashley and M.G. Burton V. Flambaum	Exo-Planet Imaging from the Antarctic Plateau: Opportunities and Challenges
Intl ICAM Workshop	Dresden, Germany	15-21 October	O.P. Sushkov	Variation of Fundamental Constants From Big Bang to Atomic Clocks and QCD Calculations
PPV	Kona, Hawaii	24-28 October	J.L. Christiansen	Magnetic and Transport Properties of Underdoped $\text{La}_2\text{Sr}_x\text{CuO}_4$, the Spiral Theory (invited talk) Searching for Extrasolar Planets From UNSW

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PANIC 2005 Particle and Nuclei International Conference	Santa Fe, NM, USA	23-29 October	T. Hill V. Flambaum J. Ginges	Examining the Evolutionary Sequence of Massive Star Formation Variation of Fundamental Constants From Big Bang to Atomic Clocks and QCD Calculations The Radiative Potential Method for Calculations of Radiative Corrections to Phenomena of Many-Electron Atoms; Parity Nonconservation in Cesium Nano-Schottky Barriers
3rd NTT-BRL School for Decoherence and Noise in Quantum Systems	Atsugi, Japan	31 Oct - 4 November	M.A. Ahrens, S.E. Andresen, R. Brenner, C. Yang, D.N. Jamieson, and R. G. Clark N.A. Court, A.J. Ferguson, D. Kinton, T. M. Buehler, D.J. Reilly, R.P. Starrett, and R. G. Clark	Approaching Quantum Limited Charge Detection
14th AINSE Conf on Nuclear and Complementary Techniques of Analysis & 9th Vacuum Society of Australia Congress	Wellington, NZ	20-22 November	T. Hallal, and G. Box	Seasonal Variations in Size-Resolved Chemistry of Aerosols in Sydney
Materials Research Society Meeting	Boston, MA, USA	27 November-2 December	S. Rubanov, P.R. Munroe, and M.A. Stevens-Kalceff K.J. Levick, M.A. Stevens-Kalceff, H. Zhao, and P.M. Doran	The Study of Ion Beam Induced Swelling in Crystalline Germanium Irradiated by a 30 keV Ga ⁺ Focused Ion Beam Characterisation of II-VI Semiconductor Quantum Nano particles Produced Using Plant Tissue Culture
Millimetre Wave Astronomy Science Meeting	UNSW	30 November	M.A. Stevens-Kalceff, and T.L. Sobey M.G. Burton	Local Charging Induced Chemical Modification of Focussed Ion Beam Processed SIMOX The Millimetre Astronomy White Paper
AGU Fall Meeting	San Francisco, USA	4-9 December	S. Longmore C. Purcell A. Walsh A. Walsh G.P. Box, T. Hallal, and Z. Bouya M. Kuzmanoski, M.A. Box, B. Schmid, B.P. Box, and J. Wang M.A. Box, and A. Thirunvukarasu	Ammonia Cores in Massive Star Formation ATCA and Mopra Observations of the Molecular Cores in NGC3576 Overview of Australia's MM-Wave Facilities Uncovering Cores in G305 Seasonal Variations in Aerosol Chemical and Physical Properties in Sydney, Australia A Case Study of Aerosol Optical Properties and Radiative Effects Computed From Airborne Measurements During the ACE-Asia Campaign. Application of Radiative Perturbation Theory to MISR Aerosol Retrievals Spectral Functions from Series Expansions
Neutron Scattering - Theory and Experiment	Terrigal, Australia	5-8 December	C. Hamer	
Quantum Many Body Theories	University of Buenos Aires, Argentina	5-9 December	J. Oitmaa D. Neilson	Introduction to Series Expansions Unified Scaling Description of Metal-Insulator Transition: New Results for Deep Insulating Region
PacifiChem Conference	Honolulu, HI, USA	15-20 December	M. Y. Simmons	Scanning Probe Microscopy for Silicon Device Fabrication (invited talk)