Appendix 2

Conference Presentations

Massive Star Formation Workshop, University of Leeds, UK, 5-16 January
M. Burton, “Millimetre-Wave Astronomy in Antarctica: From South Pole to Dome C”
T. Hill, “Millimetre continuum observations of MSF”
T. Hill, “SIMBA observations of MSF regions”
C. Purcell, “The Mopra Hot Molecular Core Project”

18th Biennial Australian Conference on Microscopy and Microanalysis /*Advanced Microanalysis Techniques Special Session, Geelong, VIC, 2-6 February
M.A. Stevens-Kalceff, “Photoluminescence, raman and cathodoluminescence microanalysis in an SEM”
M. A. Stevens-Kalceff, “Kelvin probe microscopy investigation of the effects of low voltage SEM induced specimen charging and secondary electron emission”

28th Annual Condensed Matter and Materials Meeting of ANZIP, Wagga Wagga, NSW, 3-6 February
S.J. Angus, C.E.A. Smith, G.L. Snider, E. Gauja, A.S. Dzurak, and R.G. Clark, “Fabrication of a novel silicon single electron transistor for Si:P quantum computer devices”
N.A. Court, D.J. Reilly, T.M. Buehler, R.P. Starrett, R.G. Clark, and A.R. Hamilton, “Towards a quantum-limited charge detector”
A.D. Greentree, A.R. Hamilton, L.C.L. Hollenberg, and R.G. Clark, “Towards robust measurement of solid-state spin qubits”
W.D. Hutchison, D. Tempelaars, R. Bramley, A.R. Hamilton, E. Gauja, and R.G. Clark, “Magnetic resonance and P:Si qubits”
D.R. McCamey, M.J. Francis, J.C. McCallum, A.R. Hamilton, A.D. Greentree, and R.G. Clark, “Characterization of Si-SiO_2 trap density due to ion implantation”
M. Mitic, T.M. Buehler, A.J. Ferguson, V. Chan, E. Gauja, F.E. Stanley, S.J. Angus, K.H. Lee, A.D. Greentree, D.J. Reilly, A.R. Hamilton, A.S. Dzurak, R.G. Clark, C.I. Pakes, C. Yang, D.N. Jamieson and S. Prawer, “Nanofabrication of charge-based Si:P quantum computer device using single-ion implantation”
J. Oitmaa and W. Zheng, “Phase diagram of the BCC S= Heisenberg antiferromagnet with first and second neighbour exchange”
G. Schubert, A. Weisse, and H. Fehske, “Comparative numerical study of localisation in disordered electron systems”
A.M.A. von Brasch and J. Oitmaa, “Theoretical studies of a mixed-spin antiferromagnetic model for the rare earth nickelates R_2BaNiO_5”
F.J. Rueß, (Invited talk), “Fabrication of nano-scale devices in silicon using scanning probe microscopy”
A. Weisse, “New tools for the calculation of dynamical correlation functions at finite temperature”
W. Zheng and J. Oitmaa, “Mixed-spin S=(,1) quantum ferromagnet at zero temperature”

Workshop on Nanoscience and Nanostructured Materials, Montreal, Canada, 19-20 March
M.Y. Simmons, (Invited Talk), “Scanning probe microscopy for atomic-scale device fabrication”

Second Quantum Transport Nano-Hana International Workshop, Chiba, Japan, 24 March
D.J. Reilly, “The 0.7 conductance feature above the kondo temperature”

2004 March Meeting of the American Physical Society, Montreal, Canada, 22-26-March
A.R. Hamilton, (Invited talk), “Development of atomic scale phosphorus-in-silicon devices for quantum computing”
K.R.A. Hazzard, A.D. Greentree, R.P. Starrett, F.G. Robertson, A.R. Hamilton, and R.G. Clark, “Electrical simulation of quantum algorithms”
T.L. Sobey, C.E. Yasin, A.P. Micolich, A.R. Hamilton, M.Y. Simmons, L.N. Pfeiffer, and K.W. West, “Electron-electron interactions in high quality 2D GaAs electron systems: metallic behaviour at B=0 and corrections to the Hall resistance”

PILOT (Pathfinder for an International Large Optical Telescope) Meeting, Anglo Australian Observatory, 26 March
M. G. Burton, “Astronomy in Antarctica and the role of JACARA”
J.W.V. Storey, “Constructing telescopes in Antarctica”
J.W.V. Storey, “From PILOT to an ELT – the opportunity for Australia”

Defence Emerging Technology Conference, Canberra, 26 March
R.G. Clark, (Invited talk), “Quantum computing”

One Hundred Years of Semi-Conductor Research, Bose Research Institute, Kolkata, India, 29-31 March
V.A. Shepherd, (Invited talk),”Plant cell electrophysiology now and then”

Workshop on Philosophy of Physics, University of Sydney, 30 March
D.J. Miller, “Quantum physics: Time for Plan B”

Workshop on Quantum Information Science and Emerging Technologies, Boulder, USA, 28-30 April
R.G. Clark, (Invited talk), “Progress in quantum computing in condensed matter systems”

Spin and Qubit Symposium, Copenhagen, Denmark, 4-5 May
R.G. Clark, (Invited talk), "Progress towards single atom qubits in silicon"

ATNF Student Symposium, ATNF, CSIRO, Marsfield, NSW, 12 May
T. Hill, "Millimetre continuum observations of Massive Star Formations"

ALMA Science Workshop, College Park, MD, USA, 13-15 May
T. Wong, "Molecular clouds in the LMC at high resolution: the importance of short ALMA baselines"

IMF@50 Conference, Sienna, Italy, 16-20 May
T. Wong, "How does star formation build a galactic disk?"

Mopra Millimetre-Wave Workshop, Coonabarabran NSW, 21 May
M.G. Burton, "An Introduction to millimetre astronomy"
M.G. Burton, "Deriving physical parameter from molecular line data"

Gemini Space Meeting, Vancouver, Canada, 23-26 May
M. Whiting, R. Webster, and P. Francis, "A GMOS dissection of the line-of-sight environment to PKS 2126-158"

Scanning Probe Microscopy, Sensors and Nanostructures, Beijing, China, 23-27 May
T. Hallam, L. Oberbeck, N.J. Curson, F.J. Ruesß, M.Y. Simmons, and R.G. Clark, "STM-based fabrication of nano- and atomic scale P-In-Si devices: The crucial step of hydrogen resist removal"

DAMOP-2204, Tucson, Arizona, USA, 25-29 May
V. Dzuba, "High precision calculation of isotope shift for many-electron atoms"
V. Dzuba, "Effects of variation of fundamental constants form Big Bang to atomic clocks"

Gordon Conference on Interfacial Water in Cell Biology, Mt Holyoke College, South Hadley, Massachusetts, USA, 6-11 June
V. A. Shepherd, (Invited talk), "Plant cells through the looking glass: cytoplasmic structure and plant cell electrophysiology"

Australian Astronomy MNRF Symposium, CSIRO ATNF, Marsfield, NSW, 8 June
J.W.V. Storey, "From Pilot to an ELT"

AWS-AMRC-AMPS Annual Meeting, Charleston, South Carolina, USA, 8-10 June
C. Meyer and J.W.V. Storey, (Presented by S.L. Smith), "An analysis of surface wind speeds at Dome C, Antarctica"

Silicon Nanoelectronics Workshop, Hawaii, USA, 13-14 June
A.S. Dzurak, V. Chan, T.M. Buehler, A.J. Ferguson, F.E. Stanley, M. Mitic, E. Gauja, D.J. Reilly, A.R. Hamilton, R.G. Clark, D.N. Jamieson, C.J. Yang, C.I. Pakes, and S. Prawer, "Single atom Si nanoelectronics using controlled single-ion implantation"

Astronomical Telescopes and Instrumentation 2004 SPIE Meeting, Glasgow, Scotland, 21-25 June
J.W.V. Storey, (Invited talk), "Antarctica: the potential for interferometry"

8th International Conference on Nanometer-Scale Science and Technology, Venice, Italy, 28 June-2 July
F.J. Ruesß, L. Oberbeck, M.Y. Simmons, K.E.J., Goh, A.R. Hamilton, T. Hallam, S.R. Schofield, N. J. Curson, and R.G. Clark, "Scanning probe microscopy for silicon device fabrication"

The International Conference on Synthetic Metals (ICSM) 2004, Wollongong, NSW, 27 June-2 July
P. Meredith, J. Riesz, C. Giacomantionio, S. Subianto, G. Will, A.P. Micolich and B.J. Powell, "The melanins – a class of bio-organic conductor"

Astronomy at Dome C, Toulouse, France, 28 June-1 July
M.C.B. Ashley, "MASS seeing measurements from Dome C"
J.W.V. Storey, M.C.B. Ashley, J. Lawrence and M.G. Burton, "Automated site testing"

8th International Conference on Nanometer-Scale Science and Technology, Venice, Italy, 28 June
F.G. Ruesß, L. Oberbeck, M.Y. Simmons, K.E. J. Goh, A.R. Hamilton, T. Hallam, S.R. Schofield, N.J. Curson, and R.G. Clark, "Scanning probe microscopy for silicon device fabrication"

ASA Annual Scientific Meeting, University of Queensland, 5-8 July
S. Curran, "21-cm absorption in damped Lyman-alpha systems"
A. Derekas, L.L. Kiss, A. Udalski, T.R. Bedding, K. Szatmary, "A first-overtone RR Lyrae star with cyclic period changes"
L.M. Griffiths-Ord, "Probing the origins of voids in the distribution of galaxies"
T. Hill; "Millimetre continuum observations of MSF"
J. Storey, "Dome C, Antarctica: what's next?"
M. Whiting, R. Webster, and P. Francis, "A GMOS dissection of the line-of-sight environment to PKS 2126-158"
T. Wong, "Do we know how star formation builds a galactic disc?"

International Conference on Storms (11th National AMOS Conference), Brisbane, 5-9 July
Z. Bouya, G. Box, and M. Box, "Aerosol seasonal cycle in Darwin, Australia in 2002 and 2003"
G. Box and T. Hallal, "Aerosol composition and optical properties in the Sydney basin"

International Workshop on Plant Membrane Biology, AGRO Montpellier, Montpellier, France, 6-10 July
M.J. Beilby and S. Westermann, "Modeling the hyperpolarizing response in *Chara corallina"*
M.J. Beilby and S. Westermann, "Modeling the hyperpolarizing response in *Chara corallina"*
M.J. Beilby and V.A.Shepherd, "Modeling the Ca^{2+}-activated Cl^- channels of salt-tolerant charophyte *Lamprothamnium*"
M. A. Bisson and M.J. Beilby, "Mechanism of turgor regulation in *Ventricaria ventricosa*"
C. A. Cherry, M.J. Beilby, and N.A. Walker, "Ion fluxes and electric currents
V. A. Shepherd, M.J. Beilby, and T. Shimmen, "Calcium, mechanosensing and the response to salinity stress in *Chara*"

Bioastronomy 2004 – Habitable Worlds, Reykjavik, Iceland, 12-16 July
P. Jones (ATNF), M. Hunt, and I. Bains, "A 3-mm search for biomolecules in the ISM with the Australia Telescope Compact Array and Mopra"

12th International Symposium on Acoustic Remote Sensing and Associated Techniques of the Atmosphere and Oceans, Clare College, Cambridge, England, 11-16 July
T. Travouillon, "Low atmosphere turbulence measurements on the high Antarctic plateau"

3rd Potsdam Thinkshop on Robotic Astronomy, Potsdam, Germany, 12-15 July
M.C.B. Ashley, "Robotic astronomy from Antarctica"

17th UCL Colloquium Massive Star Formation, Near & Far, Cumberland Lodge, Windsor Great Park, UK, 13 July
M.G. Burton, "Signature of the evolutionary route to massive star formation"

International Conference on Superlattices, Nano-Structures and Nano-Devices, Cancun, Mexico, 19-23 July
K.E.J. Goh, L. Oberbeck, M.Y. Simmons, F.J. Ruesß, and R.G. Clark, "Electrical activation of 2D and nanostructured Si:P –doped layers"

XXVII SCAR Meeting, Bremen, Germany, 25-31 July
J.W.V. Storey, (Invited plenary talk), "Astronomy from Antarctica"

International Conference on Strongly Correlated Electron Systems (SCES 04), Karlsruhe, Germany, 26-30 July
A. Alvermann, G. Schubert, A. Weisse, F.X. Bronhold, and H. Fehske, "Characterisation of Anderson localisation using distributions"
G. Shubert, A. Weisse, and H. Fehske, "Localisation transition in disordered electron systems"
J. Sirker, A. Weisse, and O. Sushkov, "Bose-Einstein condensation of magnons in $TlCuCl_3$"
A. Weisse, G. Schubert, and H. Fehske, "Chebyshev expansion method for finite-T dynamical correlations—optical response of the Anderson model"
A. Weisse, H. Fehske, and D. Ihle, "Spin-lattice coupling effects in CMR manganites—Holstein double-exchange model"
H. G. Wellein, G. Hager, K.W. Becker, S. Sykora, A. Huebsch, A. Weisse, A.R. Bishop, "Luttinger liquid versus charge density wave behaviour in the spinlesss Fermion Holstein model"

27 International Conference on the Physics of Semiconductors, Arizona, USA, 26-30 July
A.J. Ferguson, V. Chan, A.R. Hamilton, A.S. Dzurak, and R.G. Clark, "Electric field induced charge noise in Si:P"

Microscopy and Microanalysis 2004 (Microscopy Society of America Annual Conference, Savannah USA, 1-5 August
M.A. Stevens-Kalceff, "More than a surface probe: investigation of subsurface charging in buried oxide layers in silicon using Kelvin probe microscopy".
M.A. Stevens-Kalceff, "Mitigation of localized charging induced in insulating materials by a focused ion beam"

5th Rencontres du Vietnam "New Views on the Universe", Hanoi, Vietnam, 5-11 August
L.M. Griffiths Ord, "The cosmological implications of the latest CMB results"
L.M. Griffiths Ord, "Probing the origins of voids in the distribution of galaxies"

4th IEEE Conference on Nanotechnology, Munich, Germany, 16-19 August
K.H. Lee, A.D. Greentree, V. Chan, T. M. Buehler, R. Brenner, A.S. Dzurak, A.R. Hamilton and R.G. Clark, "Robustness of readout devices for Si-based quantum computing"

Quantum Computing Program Review, Orlando, USA, 16-20 August
S.E. Andresen, V. Chan, A.J. Ferguson, and D. McCamey, "Gate-controlled single electron transfer in ion-implanted Si:P QC devices: Two-p-atom, p-atom-clusters and p-clusters with source-drain leads"
T.M.Buehler, D.J. Reilly, R.P. Starrett, N. Court, V. Chan, A.R. Hamilton and R.G. Clark, "Development of measurement and control for Si:P QC devices: microwave spectroscopy and rf-SET/SQUID amplifiers"
V. Chan, M. Mitic, D.R. McCamey, K.H. Lee, S.E. Andresen, R. Brenner, A.J. Ferguson, F.E. Hudson, T.M. Buehler, D.J. Reilly, E. Gauja, C. Yang, T. Hopf, D.N. Jamieson, A.R. Hamilton, A.S. Durak and R.G. Clark, "Gate-controlled single electron transfer in ion-implanted Si:P QC devices"
R.G. Clark, J. Cole, V. Conrad, S. Devitt, A. Doherty, A. Fowler, H-S. Goan, A. Greentree, A.R. Hamilton, C. Hill, L.C.L. Hollenberg, L. Kettle, G.J. Milburn, S. Prawer, D.J. Reilly, T. Starling, R. Starrett, and C.J. Wellard, "Single donor quantum device modeling and algorithm simulation"
R.G. Clark, "Fabrication of a silicon-based quantum computer"
D.N. Jamieson, C. Yang, C.I. Pakes, T. Hopf, S.M. Hearne, S. Rubanov, G. Tamanyan, S. Prawer, S.E. Andresen, M. Mitic, D. Waterhouse, E. Gauja, F.E. Hudson, A.S. Dzurak, and R.G. Clark, "Progress with single ion implantation for construction of single P arrays in Si"
F.J. Ruesß, L. Oberbeck, K.E.J. Goh, M.Y. Simmons, M. Butcher, and R.G. Clark, "Characterisation of STM patterned buried P atom devices"
P.G. Spizzirri, N. Stavrias, S. Prawer, J.C. McCallum, B.J. Villis, D.N. Jamieson, E. Guaja, and R.G. Clark, "IR raman spectroscopy of the Si:P system"

Mini-Symposium on Quantum Computing, Tallahassee, USA, 20 August
R.G. Clark, "Summary of key progress in solid state QC around the world"
A.S. Dzurak, "Si:P Qubits"

KerrFest Conference on Black Holes, Christchurch, NZ, 26-28 August
V. Flambaum, "Absorption of scalar particle by black holes"

28th Annual Scientific Meeting of the Australian Society for Biophysics, Fremantle, WA, 29. Sept - 2. Oct
MJ Beilby and S Westermann, "Modeling the hyperpolarizing response in *Chara corallina"*
MA Bisson and MJ Beilby, "Mechanism of turgor regulation in *Ventricaria ventricosa"*
VA Shepherd, MJ Beilby and T Shimmen, "Calcium, mechanosensing and the response to salinity stress in *Chara"*

Donald D. Betts Symposium, Banff, Canada, 3-4 September
J. Oitmaa, "Exact diagonalization tales"

8th International Global Atmospheric Chemistry Conference, Christchurch, NZ, 9 September
S.A. Christopher, J. Wang, P. Gupta, M.A. Box and G. Box, "Satellite remote sensing of air pollution in mega cities"
G. Box and T. Hallal, "Relationship between size-resolved chemistry and aerosol optical properties in Sydney, Australia"

Pacific Rim Conference in Nano Science, Broome, 7-12 September
N.J. Curson, (Invited talk), "Atomic-scale fabrication of a silicon-based quantum computer"

9th International Conference on Nuclear Microbe Technology and Applications, Cavtat, Croatia, 13-17 September
D.N. Jamieson, T. Hopf, C.J. Yang, C.I. Pakes, S.M. Hearne, S. Prawer, E. Gauja, M. Mitic, F.E. Stanley, A.S. Dzurak, and R.G. Clark, "The development of a single atom doping system for charge and spin-based silicon quantum computer devices"

International Workshop on Solid State Based Quantum Information Processing, Herrsching, Germany, 13-17 September
R. Brenner, T.M. Buehler, and D.J. Reilly, "Double-island single-electron transistor operated at radio-frequency for fast, sensitive and versatile charge detection"
R.G. Clark, (Invited talk) "Progress towards a few qubit silicon-based solid state quantum computer"
D.N. Jamieson, T. Hopf, C.J. Yang, C.I. Pakes, S.M. Hearne, S. Prawer, E. Gauja, M. Mitic, F.E. Stanley, A.S. Dzurak, and R.G. Clark "The development of a single atom doping system for charge and spin-based silicon quantum computer devices"
M. Mitic, T.M. Buehler, V. Chan, A. J. Ferguson, S.E. Andresen, E. Guaja, F.E. Hudson, D.J. Reilly, A.R. Hamilton, A.S. Dzurak, and R.G. Clark, "Nanofabrication of charge-based SiP: quantum computer devices using single ion implantation"

Micro and Nano Engineering International Conference, Rotterdam, The Netherlands, 19-22 September
R. Brenner, T.M. Buehler, and D.J. Reilly, "Double-island single-electron transistor operated at radio-frequency for fast, sensitive and versatile charge detection"
M. Mitic, T.M. Buehler, V. Chan, A. J. Ferguson, S.E. Andresen, E. Gauja, F.E. Hudson, D.J. Reilly, A.R. Hamilton, A.S. Dzurak, and R.G. Clark, "Nanofabrication of chare-based Si:P quantum computer devices using single ion implantation"

Conference on Fundamental Symmetries and Fundamental Constants, Trieste, Italy, 15-18 September
V. Flambaum, (Invited talk), "Effects of variation of fundamental constants from Big Bang to atomic clocks"

ATNF, Epping, NSW, 16 September
A. Walsh, "Star formation on the move?"

5th Quantum Information Processing and Communication Workshop, Rome, Italy, 20-22 September,
A.D. Greentree, M. Testolin, L.C.L. Hollenberg, A.G. Fowler, A.R. Hamilton, F. Green, C.J. Wellard, C.I. Pakes, and R. G. Clark, "Novel readout mechanism for solid-state quantum computers"

4th Symposium of the International Research Group on Charophytes, Ranelagh House, Robertson, NSW, 25-27 September
M.J. Beilby and V.A. Shepherd, (Invited Talk), "Charophyte electrophysiology as a model for higher plant cells"

Quantum Information Science – Entanglement and Transfer of Quantum Information, Cambridge, UK, 27-30 September
L. Oberbeck, "The fabrication of a silicon based quantum computer at the atomic-scale"

Multiband Approach to AGN Workshop, MPIfR, Bonn, Germany, 30 September-2 October
M. Whiting, "On the origin of the BL Lac Phenomenon"

Physiology and Acoustics of Singing, Denver, USA, 8 October
N. Henrich, J. Smith and J. Wolfe, (Invited talk), "Resonance strategies in singing: sopranos and tenors"

Symposium on EDM in Atomic Physics, Tokyo, Japan, 9 October
V. Flambaum, "Theoretical review of atomic and nuclear electric dipole moments"

2nd NTT – BRL School on Transport Properties in Quantum Nanostructure, Fuji, Japan, 8-14 October
V. Chan, T.M. Buehler, A.J. Ferguson, D.J. Reilly, D.R. McCamey, F.E. Hudson, C. Yang, T., Hopf, A.S. Dzurak, A.R. Hamilton, D.N. Jamieson, and R.G. Clark, "Study of charge transport in Si:P nanostructures using single-electron transistors"
F.J. Rueß, L. Oberbeck, K.E.J. Goh, M.Y. Simmons, M. Butcher, A.R. Hamilton, and R.G. Clark, "The fabrication of nano-scale devices in silicon using scanning probe microscopy"

ATNF, Epping, NSW, 21 October
A. Walsh, "Star formation in NGC 1333 and the prestellar IMF down to 0.05 Msun"

Australian Virtual Observatory Workshop 2004, University of Melbourne, Australia, 18-19 November
D. Woods, "Integrating the ROTSE-III telescope archive and data pipeline with the virtual observatory"

CASE Conference on Humans and Machines, New College, UNSW, 25-27 November
R. J. Stening, "Teaching humans online"

2004 MRS Fall Meeting, Boston, USA, 29 November-3 December
A.N. Rashid, M. Köhler, D.C. Craig, A.P. Micolich, A.R. Hamilton and P. Günter, "Growth and characterisation of high purity single crystals of a and b Alq_3 for charge transport studies"
M.A. Stevens-Kalceff and S. Mickle, "Radiation induced subsurface charging in the buried oxide layer in SIMOX"

14^{th} Gordon Godfrey Workshop on Condensed Matter Physics, UNSW, 9 December
A. Weisse, "Chebyshev expansion approach to dynamical correlation functions"

Conference on Optoelectronic and Microelectronic Materials and Devices, St Lucia, Australia, 8-10 December
B.J. Villis, J.C. McCallum, M.D.H., Lay and E. Gauja, "Constant capacitance deep-level transient spectroscopy study of bulk traps and interface states in P implanted Si MOS capacitors"

Mt Stromlo Christmas Seminar, Mt Stromlo, Canberra, 10 December
T. Hill, "Examining the evolutionary sequence of Massive Star Formation"

4th Annual Coogee Bay Meeting, Sydney, 10 December
S.E. Andresen, "Nano-schottky tunneling barriers"
F.E. Hudson "Ultra-high electron beam lithography resolution for Si:P quantum computer devices"
M. Mitic, "Nanofabrication of devices using single-ion implantation for charge-based Si:P quantum computing"
A.P. Micolich, E. Tavenner, B.J. Powell, R.H. McKenzie, A.R. Hamilton, P. Meredith, "Superconductivity in ion-implanted plastic films"
T.L. Sobey, C.E. Yasin, W.R. Clarke, A.P. Micolich, A.R. Hamilton, M.Y. Simmons, L.N. Pfeiffer, K.W. West, M. Pepper, E.H. Linfield, D.A. Ritchie, K. Muraki, and Y. Hirayama, "Metallic behaviour in strongly interacting 2D systems"

Ist Asia Pacific Conference on Quantum Information Science, Tainan, Taiwan, 10-13 December
A.S. Dzurak, "Progress in single donor Si:P qubits"

SPIE International Symposium on Smart Materials, Nano and Micro-Smart Systems, Sydney, 12-15 December
S. Angus, E. Gauja, C.E.A. Smith, G. Snider, A.S. Dzurak, and R.G. Clark, "Development of a silicon-based single electron transistor"
V.C. Chan, D.R. McCamey, A.J. Ferguson,T.M. Buehler, D.J. Reilly, C. Yang, T. Hopf, S.M. Hearne, E. Gauja, A.S. Dzurak, A.R. Hamilton, D.N. Jamieson, S.D. Prawer and R. G. Clark, "Single-electron transistor coupled to a silicon naon-MOSFT"
A.D. Greentree, J.H. Cole, A.R. Hamilton, and L.C.L. Hollenberg, "All-electrical adiabatic passage techniques in solid-state coherent quantum systems"
A.D. Greentree, J.H. Cole, A.R. Hamilton, and L.C.L. Hollenberg, "Scaling of coherent tunneling adiabatic passage techniques in solid-state coherent quantum systems"
T. Hallam, N.J. Curson, L. Oberbeck, and M.Y. Simmons, "STM characterization of phosphine adsorption on STM-patterned H:Si(001) surface"
M. Mitic, T.M. Buehler, V.C. Chan, A.J. Ferguson, S.E. Andresen. E. Gauja, F.E. Hudson, D.J. Reilly, A.R. Hamilton, A.S. Dzurak, R.G. Clark, C. Yang, T. Hopf, C.I. Pakes, and D.N. Jamieson, "Nanofabrication of charge-based Si:P quantum computer devices using single-ion implantation"
F.J. Ruesß, M.J. Butcher, L. Oberbeck, M.Y. Simmons, K.E.J. Goh, A.R. Hamilton, T. Hallam, T.C.G. Reusch, N.J. Curson, and R.G. Clark, "Scanning probe microscopy for silicon device fabrication"

5th International Conference on Low Dimensional Structures and Devices (LDSD 2004), Cancun, Mexico, 13-15 December
W.R. Clarke, A.P. Micolich, A.R. Hamilton, M.Y. Simmons, K. Muraki, and Y. Hirayama, "Fabrication and transport properties of 2D hole systems in undoped (311)A GaAs heterostructures"

4th AINSE Symposium on Neutron Scattering, Lucas Heights, NSW, 13-15 December
W. Zheng, J. Oitmaa and C.J. Hamer, "Magnon disperson and structure factors for Heisenberg antiferromagnets"

Astronomy Decadal Plan Facilities Meeting, UNSW, 17 December
M.G. Burton, "What place for millimetre astronomy?"
J.W.V. Storey, "Antarctica: the opportunity for Australia"