

AINSE Postgraduate Research Awards - Postgraduate Research Scholars

Year commenced	Student	University	Project Title
2006	Clare Atkinson	University of Wollongong	Selenium assimilation and distribution in marine organisms
2006	Fionnuala Buckley	Griffith University	Chemical bath deposition of metal-chalcogenide (semiconductor) and metal thin films
2006	Matthew Carroll	University of Western Australia	Measurement of nanomagnetic and nanostructural properties of ferrofluids by small angle neutron and x-ray scattering
2006	Geoffrey Carter	Curtin University of Technology	Controlling precipitation processes in the production of value-added zirconia
2006	Ben Kent	RMIT University	Effect of sugars on bilayer to non-bilayer phase transitions in biological membranes during dehydration
2006	Wen Jie Ma	University of Sydney	Diamond-like carbon coating for biomedical applications
2006	Ryan Mills	University of Melbourne	Small-angle scattering analysis of structural rearrangements of Parkinson's disease-associated protein kinases
2006	Ashley Natt	The University of Adelaide	Scales of variability: El Niño, human impact and Greater Flamingo populations in internationally significant Galapagos wetlands
2006	Betime Nuhiji	Deakin University	Structure-property relationships in thermoset nanocomposites
2006	Mark Paskevicius	Curtin University of Technology	A Nanostructural Investigation of Hydrogen Storage in Aluminium
2006	Neeraj Sharma	University of Sydney	Geometrically frustrated magnetism in bismuth platinum-group oxides
2006	Nathan Webster	University of Western Australia	Structural characterization of bismuth oxide-based, highly conductive solid electrolytes
2005	William Lee	University of Canterbury	Compositional analysis of ZnO single crystal thin films grown by RF-PAMBE
2005	Joseph Bevitt	University of Sydney	Evidence for H ₂ sorption by a nanoporous coordination polymer by in-situ single crystal neutron diffraction
2005	Serena Abbondante	University of Canberra	Forensic analysis procedures for radiologically contaminated biological evidence: a counter terrorism initiative
2005	Luke Ryves	University of Sydney	Nanoscale multilayer materials
2005	Damian Evans	University of Sydney	Radiocarbon dating of rice husk temper from Angkorean brick temples

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2005	Mattias Raiber	La Trobe University	Tracing the origin of salinity and quantifying its future changes in the eastern Hopkins Catchment, western Victoria
2005	Gordon Tsen	University of Western Australia	Characterisation of arsenic doped mercury cadmium telluride grown by molecular beam epitaxy for infrared detector applications
2005	Paul Saines	University of Sydney	Structural studies of ionic conductive defect perovskites
2005	David Tawfik	Monash University	The effects of short term post weld heat treatment on residual stresses in flash butt welded rails.
2005	Amy Wyatt	University of Wollongong	Disposal of unfolded proteins by members of the LDL receptor superfamily
2005	Iona Flett	Australian National University	Historical ecology and the record of human impact in the Galapagos Islands
2004	Manickam Minakshi	Murdoch University	Investigation of cathode materials for lithium secondary batteries
2004	Cameron Barr	The University of Adelaide	A fine-resolution reconstruction of climatic fluctuations over the last 2000 years in south-eastern Australia
2004	Louise Mutton	The University of Adelaide	Benthic diatoms as biological indicators of acid mine drainage in tropical areas of the Northern Territory
2004	Susan Pearce	The University of Adelaide	Residual stress measurement in highly constrained welds
2004	Katherine Lilly	The Australian National University	Use of cosmogenic nuclides to constrain the glacial history of the Lambert-Amery Basin, East Antarctica
2004	Ryan Chester	Curtin University of Technology	Calixarenes as potential ionophores for ion-selective electrodes
2004	Clinton Maitland	Curtin University of Technology	Analysing small-angle scattering data using the correlation function
2004	Stephen Lewis	James Cook University	Stratigraphic and climatic evolution of Nelly Bay, Magnetic Island
2004	Samantha Grover	Latrobe University	Past processes in peats: untangling the origin of dried peat in the Australian Alps
2004	John Daniels	Monash University	Relaxation and microstructural studies in triglycine sulfate ferroelectrics
2004	Anna Paradowska	Monash University	Evaluating residual stress measurements using neutron diffraction for welds in steel structures and pressure vessels and relating this to the design and fitness-for-purpose assessments

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2004	Geoffrey Hall	The University of New South Wales	Reversible addition-fragmentation chain-transfer (RAFT) polymerization using γ -radiation initiation of high-conversion glassy polymers and novel polymeric materials
2004	Roland Goh	Queensland University of Technology	Development of a composite conjugated polymer/dye sensitiser/carbon nanotube blend organic solar cell
2004	Glen Oberman	Queensland University of Technology	Mathematical modelling of drying of colloidal nanoparticle sols
2004	Chanokporn Chaiwong	The University of Sydney	Plasma surface modification of polymers for biomedical applications
2004	Rachael Parkinson	University of Tasmania	Impact of climate change on late Holocene penguin populations of the Vestfold Hills, Antarctica, using high resolution lake sediment cores
2004	Krystyna Saunders	University of Tasmania	Effects of urban eutrophication in southeast Australian coastal lagoon ecosystems: three case studies
2004	Mark Callaghan	University of Technology Sydney	High temperature fatigue behaviour and life prediction of advanced engineering materials
2004	Taryn Homes	University of Wollongong	Development of radiolabelled peripheral benzodiazepine receptor ligands for imaging and therapy of tumours and neurodegeneration
2004	Mark Peterson	University of Wollongong	Groundwater remediation utilising a permeable reactive barrier in acid sulphate soils of the lower Shoalhaven River catchment
2004	Andrew Wroe	University of Wollongong	Microdosimetry and nanodosimetry in proton therapy
2003	Angus MacGregor	The University of Adelaide	A palaeoecological reconstruction of the lower Snowy River, East Gippsland: environmental response to climate change, land use and river regulation
2003	Jim Lee	The University of Auckland	ZnO thin films doped by ion implantation
2003	Adam Perriman	The Australian National University	Protein behaviour at interfaces
2003	Catherine Kealley	Curtin University of Technology	Development of electrolyte material for solid oxide ionic conductor applications
2003	Drew Sheppard	Curtin University of Technology	Hydrogen adsorption in intercalated graphite: comparison between experiment and simulation
2003	Joanne Muller	James Cook University	New proxies for the climate debate: AMS dates and stable carbon isotopes of peat deposits from NE Queensland

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2003	Adam Fischmann	Monash University	Gold processing using thiosulfate lixivants
2003	John Healy	Monash University	Macromolecular orientation induced by injection molding processes
2003	Karen Durand	The University of Newcastle	Trace-element mapping of tropical carbonates using the high-energy heavy-ion microprobe
2003	Leigh Sheppard	The University of New South Wales	Processing of TiO ₂ based semiconducting ceramics
2003	Yasmin Antwertinger	Charles Darwin University	Corals as biomonitors of Darwin Harbour health
2003	Karena Chapman	The University of Sydney	Negative thermal expansion in molecular framework materials
2003	Mark Waller	The University of Sydney	Experimental charge density studies of hydrogen bonding
2003	Long Nghiem	University of Wollongong	Removal of trace contaminants using membrane technology
2002	Lisa Rodgers	University of New South Wales	Immobilising sol gel technology for biomining and biocatalysis
2002	Andrew Whitten	University of New England	Obtaining atomic displacement parameters for hydrogen atoms from multi-temperature x-ray diffraction data
2002	Craig Sloss	University of Wollongong	Predictive modelling of the response of estuarine environments to changing environmental conditions using biostratigraphical and sedimentological evidence preserved in barrier estuaries on the NSW south coast
2002	Freya Mearns	University of New South Wales	The surface chemistry of DNA recognition interfaces
2002	Matthew Rowles	Curtin University of Technology	Interfacial bonding in alkali-activated aluminosilicate polymers
2002	Simon Connor	University of Melbourne	The palaeoecological basis of prehistoric settlements, agricultural development and climate change in the South Caucasus during the holocene
2002	Jennifer Brazier	Charles Darwin University	Fate of metal pollutants released from the Rum Jungle uranium/copper mine into the Finnis River, NT Australia
2002	Timothy Ralph	Macquarie University	Floodplain wetland evolution and dynamics in the Macquarie Marshes, NSW
2002	Alison Lane	University of Tasmania	Spatial and temporal uptake of trace metals in heart urchin tests: Use as an indicator of environmental contamination and relationship to organism growth and structural deformity

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2002	Timothy Jordan	University of Tasmania	Quantification of the contribution of fossil fuel and biomass combustion to air pollution using radiocarbon analyses
2001	Danielle Meyrick	Murdoch University	Elucidation of the biophysical behaviour of quadramet (Samarium-EDTMP) as a therapeutic radiopharmaceutical
2001	Tony Jong	Charles Darwin University	Removal of arsenic and other heavy metals associated with mine wastewater by dissimilatory sulfate and metal reduction
2001	Till Böcking	University of New South Wales	Covalent anchoring of lipid bilayers to solid supports for studies of molecular interactions at biological membranes
2001	Tristan Burg	University of New South Wales	Bulk and grain boundary transport kinetics of TiO ₂ -based ceramics
2001	John Phair	University of Melbourne	The use of x-ray and neutron small angle scattering to elucidate the structure and mechanism of formation of aluminosilicate hydrogels
2001	Fiona Rae	University of Newcastle	Elemental structure of fine particulates from the Asian continent under differing meteorological conditions
2001	Janece McDonald	University of Newcastle	Trace element variability in speleothems: a total system model for palaeoclimatic reconstruction based on stalagmites & karst systems from central NSW
2001	Vicki-Ann Dimas	University of Melbourne	An integrated approach to quantifying rates of escarpment retreat using in-situ-produced cosmogenic isotopes & low temperature thermochronologic data
2001	Jeremy Habberfield-Short	Southern Cross University	Site formation processes of prehistoric mounds, upper Mun River floodplain, north-east Thailand
2001	Gianluca Paglia	Curtin University of Technology	Transition alumina structure determination from first principle calculations
2001	Jeffrey Parr	Southern Cross University	The identification of temporal changes to Palaeo-vegetation types & prehistoric human land-use in the Numundo region of West New Britain, PNG integrating fossil phytolith and starch grain analysis
2001	Kia Wallwork	Flinders University	<i>Ab initio</i> structure determination of minerals and inorganic materials by powder x-ray and neutron diffraction
2000	Nelly Blair	The University of New England	The impact of residue returns with varying breakdown rates on soil carbon fractions, carbon sequestration and the physical fertility of soils

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2000	Carol Browne	University of Sydney	Monitoring of freshwater heavy metal contamination using turtle shell
2000	Iwan Cornelius	Wollongong University	Utilising a heavy ion probe in the development of semiconductor nanodosimetry for radiation oncology
2000	Alexandra Golab	Wollongong University	The impact of igneous intrusions on coal mining and the alienation of coal reserves
2000	Rosalind James	The University of New England	Human response to shifts in environmental boundaries in the Sydney basin during the Holocene
2000	Nigel Kirby	Curtin University	Crucible corrosion in the melt processing of ceramic oxide superconductors
2000	Jennifer Lowe	Curtin University	Investigation of crystallisation of scale in the Bayer process
2000	Keith McLennan	Griffith University	Hydrogen in metallic and metal-like systems
2000	Bobby Pejic	Curtin University	Environmental analysis using ion-selective electrodes
2000	Vanessa Peterson	University of Technology Sydney	Characterisation of Sr binding with the hydration products of cementitious systems cured at elevated temperatures
2000	Cameron Petrie	The University of Sydney	Ceramic production and exchange in the early and later historic periods at Akra, NWFP Pakistan
2000	Kirrily Rule	Monash University	Disordered and low dimensional magnetic systems
2000	Timothy Tan	The University of New South Wales	Development of stable magnetic photocatalysts for the solar detoxification of organic polluted water
2000	Jeffrey Tsang	Charles Darwin University	Mobilisation of heavy metals from metal sulfides in aquatic environments
2000	Ingrid Ward	Wollongong University	Geoarchaeological interpretation of sandstone landscapes in the Keep River region, Northern Territory
1999	Megan Langeveld	Charles Darwin University	Nutrient cycling in a tropical macrotidal environment
1999	Annalisa Contos	The University of Sydney	Biominalisation in Caves
1999	Damian Marinaro	Wollongong University	Investigation of Interaction of artificial pinning centres with magnetic flux lines in high temperature superconductors
1998	David Robinson	Monash University	Dynamic susceptibility of transition metal alloys by neutron scattering
1998	Nicola Franklin	The University of Sydney	An environmental record of the last quarter of a million years from eastern Australia
1998	Alison Funston	The University of Melbourne	Donor-acceptor compounds as potential radiation activated cytotoxins

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1998	Bradley Patterson	James Cook University	Characterisation of reduced polypyridyl ruthenium species
1998	Ellyn Cook	Monash University	Fine resolution AMS ¹⁴ C chronology for the Greater Lake Bolac lunette-lake sediment sequence
1997	Malcolm Ridges	The University of New England	Geochemistry of ochres & rock art paints in the Selwyn Ranges North West Queensland
1997	David Wheeler	Wollongong University	A Long term terrestrial palaeoenvironmental record from Isotope ratios of organic deposits
1996	Mark Pitt	Griffith University	Neutron Scattering studies of metal-H/D systems
1996	David Belton	The University of Melbourne	An investigation of the formation & early annealing of fission tracks in apatite