AINSE Postgraduate Research Awards

Postgraduate Research Scholars Awarded 2016

Name	UNI	Title
Mohammad Alim	UWS	TiO2-based semiconductors for solar energy conversion, including Ta-doped TiO2
Martin Ankor	ADE	Calibration of advanced hydrologic and isotopic palaeoclimate models with lake monitoring.
Stuart Burns	NSW	Exploring magnetoelectric coupling in ferroics; neutron scattering experiments probing the magnetic phases of BiFeO3
Grace Causer	WOL	Functional magnetic Interface phenomena in nano-architectures studied by polarised neutron reflectometry
Gael Cazes	WOL	Landscape evolution of the Kimberley region and rock art dating using cosmogenic 10Be and 26Al
Lachlan Chartier	WOL	Charge collection characterisation of new laterally depleting 3D microdosimeters
Michael Evans	QLD	A late Quaternary climate and environmental reconstruction from sub-tropical Queensland
Rubeca Fancy	UNE	Radiocarbon age of dissolved organic carbon under contrasting land uses in NSW Australia
Nastaran Faraji Ouch Hesar	NSW	Skyrmion system in a chiral multiferroelectric thin film of Cu2OSeO3
Damien Finch	MEL	Radiocarbon dating of Kimberley rock art
Melanie Fuller	FLI	A breath of fresh air for Cystic Fibrosis
Francesca Gissi	WOL	Unravelling the complex relationship of the coral holobiont and its responses to metal contaminants
Sharon Gray	ANU	Interactions between meteoric, surface and ground water in fractured rock: Upper Murrumbidgee catchment.
Meiling Han	MON	Deciphering the mechanisms of antibacterial activity and resistance of polymyxins in Gram-negative bacteria
James Hooper	WOL	Quantifying anthropogenic impacts on dust flux and its interaction with recipient ecosystems
Ben Humphreys	NCT	Confinement effects on the stimulus response of polymer brushes
Wenwen Huo	MEL	Using atmospheric and plant-based sampling of C-14 to constrain local and regional fossil fuel emissions
Geoffrey Lerner	AKL	Developing a spatio-temporal model for mass flow hazards at stratovolcanoes, Mt. Taranaki, New Zealand
Emma Livingstone	QLD	Structural investigation of the Munc18:SNARE protein complexes required for neurotransmission and blood glucose control
James Maina	DEA	Inorganic nanoparticles/metal organic frameworks hybrid membrane reactors for simultaneous separation and conversion of CO2
Michela Mariani	MEL	Using nuclear techniques to reconstruct fire-driven environmental changes in Western Tasmania

Thomas McCoy	MON	Controlling interfacial properties and dispersion of graphene analogues
Kaitlyn O'Mara	GRI	Investigating transfer and accumulation of trace metals up the food chain; using radiotracers to observe the uptake of contaminants in prawns and fish from seawater and dietary ingestion.
Rebecca Parker	OTA	Sea ice extent and diatom primary production in the Ross Sea, Antarctica: the response to post-glacial warming
Madjid Sarvghad Moghaddam	QUT	In situ characterization of microstructural evolution during thermal cycling of materials at elevated temperatures by neutron diffraction
James Sippo	SCU	Using C-14 to resolve mangrove carbon cycling
Valentina Vanghi	NCT	Neutron tomography and scattering in speleothems: the influence of porosity and texture on the accuracy of palaeoclimate interpretations
Loraine Watson-Fox	QLD	Using ITRAX XRF, multi-dimensional isotope analysis and silica microfossils to study the palaeo-ecology of sclerophyll sites in the Atherton Tablelands, northeastern Australia.
Siu Wai Wong	MON	Novel fluorinated radioligands of the tyrosine kinase, MERTK, for imaging and diagnosis in multiple sclerosis
Long Zhang	WOL	Electrostatic effects on chemical reactivity; oriented double layer effects on chemical bonding kinetics and thermodynamic
Bo Zhang	MON	Synthesis, radiolabelling and bio-conjugation studies of [18F]ethenesulfonyl fluoride (ESF) - a new innovative tool for radiopharmaceutical development