

Summary of Linkage Infrastructure, Equipment and Facilities Proposals

New South Wales

University of Wollongong

LE0775666 A/Prof WA Buttemer; Prof LB Astheimer; Prof MM Olsson; Prof MJ Walker; A/Prof K French; Prof MR Wilson; A/Prof SA Robinson; Dr T Uller; Dr R Zhang; Dr JA Aquilina; Dr M Dowton; Prof DJ Ayre; Prof AJ Hulbert; Dr DF Jolley; Dr JF Wallman; Dr TE Minchinton; A/Prof AR Davis; Dr TR Madsen; Dr B Ujvari; Prof RJ Whelan; Dr RA Bradstock; A/Prof RJ West; A/Prof MA Ranson

Approved Project Title **Flora and Fauna Research Facility**

2007 : \$ 200,000

Primary RFCD 2707 ECOLOGY AND EVOLUTION

Partner Organisations & Collaborating Organisations

Administering Organisation University of Wollongong

Project Summary

Our ability to make informed decisions regarding conservation and management of unique Australian ecosystems depends greatly on our understanding of the organisms inhabiting them. Researchers at the University of Wollongong are addressing this need through a wide range of studies including the: effects of climate change on plants, biology of invasive species, possible causes for declining frog populations, role of the immune system in aging and natural selection, effects of maternal hormones on offspring, effects of pesticides on native vertebrates, and impacts of bushfires on ecosystems. The infrastructure requested will enable research in these and other important areas.

LE0775559 Prof SX Dou; Prof C Zhang; A/Prof R Ramer; Prof JG Zhu; A/Prof X Wang; A/Prof RA Lewis; Em/Prof SJ Campbell; Dr J Horvat; Dr SS Li; Dr AV Pan; Dr N Valanoor; Dr MJ Qin; Dr G Wang; Dr KK Konstantinov; Dr J Wang; Dr Z Cheng; Dr D Shi; Mr Y Zhao; Mr Y Guo; Dr ZW Lin; Dr A Dowd

Approved Project Title **16 Tesla Physical Property Measurement System (PPMS)**

2007 : \$ 400,000

Primary RFCD 2402 THEORETICAL AND CONDENSED MATTER PHYSICS

Partner Organisations & Collaborating Organisations

The University of New South Wales
University of Technology, Sydney

Administering Organisation University of Wollongong

Project Summary

Success of this proposal will enhance national and international collaboration through access to the proposed 16-Tesla PPMS by a large number of collaborating groups. This state-of-the-art facility will substantially enhance the materials characterisation capability of Australia. Equipped with this 16-Tesla PPMS and other related facilities the Institute for Superconducting and Electronic Materials at the University of Wollongong will continue as an important national and international centre for physical property characterisation. It will allow Australian researchers to remain competitive in this important area of materials research.