

Summary of Linkage Infrastructure Applications for Funding to Commence in 2006

Victoria

La Trobe University

LE0668482 Dr AG Peele; A/Prof PJ Pigram; Dr N Brack; A/Prof J Liesegang; Dr BD James; A/Prof SG Crewther; Dr GL Kelly; Dr MR Barnett; Prof YS Morsi; Prof DV Nicolau

Approved Project Title X-ray micro-tomography facility

2006 : \$485,000

Primary RFCD 2499 OTHER PHYSICAL SCIENCES

Partner Organisation(s)

La Trobe University
Deakin University
Swinburne University of Technology
VCAMM Ltd
LM Electroplating Ind. Pty Ltd

Administering Institution La Trobe University

Project Summary

This proposal identifies a new area of importance in the investigation of the function and structure of materials as diverse as muscle and metal coatings - the ability to quantify the physical structure of an object. Researchers can further couple that ability with existing facilities at La Trobe University, which allow the chemical makeup on an interface to be analysed. The planned research projects will benefit the community in applications ranging from composite and light-weight materials for aerospace, metal coatings for automotive and tool manufacture and tissue engineering for artificial heart valves. This breadth of application ensures a truly multidisciplinary training environment for students in contact with the facility.

LE0668065 Prof JD Riley; Prof RC Leckey; A/Prof PJ Pigram; Dr N Janke-Gilman; A/Prof BF Usher; Prof JF Williams; A/Prof RL Stamps; Dr AP Stampfl; Dr D Yu; Prof TL Tansley; Dr KS Butcher

Approved Project Title High resolution images of surfaces

2006 : \$623,000

Primary RFCD 2402 THEORETICAL AND CONDENSED MATTER PHYSICS

Partner Organisation(s)

La Trobe University
ANSTO
The University of Western Australia
Macquarie University

Administering Institution La Trobe University

Project Summary

This proposal brings together significant research groups in La Trobe University, Macquarie University, the University of Western Australia and ANSTO to work in areas which will enhance Australia's capability in the area of Magnetic devices and spintronics. It will support developments in the areas of new magnetic phenomenon which is used in magnetic sensing and in the exploration of processes of size reduction for electronic devices. It will enhance the access of undergraduates and postgraduates to the emerging technologies. It will connect Australia to internationally significant research outcomes leading to, for example, new magnetic and electronic devices with a continuing decrease in their size.