



Examples of new *Linkage Projects* in 2010

Tasmania

The University of Tasmania (Contact: 03 6226 2124)

Freshwater biofouling of hydraulic conduits: impact, mitigation, and control, and the consequences of Climate Change (LP100100700)

Summary: National economic and environmental benefits will flow from increased outputs of renewable energy from hydroelectric power systems. Improved performance of canals and pipelines will enable energy and water losses to be reduced and will provide the National Electricity Market with additional renewable energy, lowering the requirement for fossil fuels. Knowledge of the impacts of Climate Change will enable industry to manage changes in rainfall pattern and conduit biofouling. An improved understanding of biofilms can be applied to achieve wider national benefit in water reticulation, irrigation systems and maritime applications. The team will develop research skills and technical expertise and train PhD students and industry counterparts.

Chief Investigator: Dr Jane Sargison

ARC funding: \$160,014 over 3 years

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Managing variable retention harvesting to maintain forest biodiversity effects of forest influence and successional stage on recolonisation (LP100100050)

Summary: The project will provide the ecological evidence that will allow forest harvesting practices to be designed to sustain the full range of biodiversity in managed forest systems. It therefore will provide the basis for sustainable forest management, with extensive economic implications. It will specifically test the biodiversity implications of the new and increasingly important variable retention methods of forest harvesting, and provide the basis for optimising these methods. In addition, the large database of DNA barcodes for forest beetles developed as a by-product by this project will provide a basis for less expensive and more accurate biodiversity assessments in sustainable management of forest systems in general.

Chief Investigator: Dr Gregory Jordan

ARC funding: \$355,000 over 3 years

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Meeting the challenges of Sclerotinia crown rot in a perennial production system - pyrethrum (LP100100529)

Summary: Sclerotinia crown rot is a major disease that results in plant death; reducing yields and the life of the perennial crop. This project aims to develop more cost effective and environmentally sustainable methods of managing this disease and will help to ensure consistent supply of pyrethrin to the world market, reduce the costs of production and increase the net return to growers.

Chief Investigator: Dr Frank Hay

ARC funding: \$366,000 over 3 years

