



THE UNIVERSITY OF  
MELBOURNE

**Melbourne Engineering Research Institute (MERIT)**

# MERIT 2008 Research Summary



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# Foreword

The Melbourne School of Engineering is proud to present the Melbourne Engineering Research Institute's 2008 Research Summary, which highlights engineering research for the benefit of society, in four research themes:

- Biomedical Engineering – in support of medicine and health;
- Information and Communication Systems – underpinning the future of information sharing, collaboration, education and business;
- Structured Matter – the role of modern materials in our world;
- Sustainable Systems – the future of water, energy and the environment for our society.

Each theme has key research directions and is establishing: Centres of Excellence; strong support from industry and government; sustainable sources of funding to carry out leading research; and a quality research environment that continues to attract the best researchers and research students.

These four research themes bring together all researchers from our six departments to collaborate and form a truly world-class Melbourne Engineering Research Institute.



**Professor Iven Mareels**  
Dean  
Melbourne School of Engineering



**Professor Rodney Tucker**  
MERIT Director  
Melbourne School of Engineering

# MERIT Research Centres and Laboratories

## **Australian Research Council (ARC) Special Research Centres**

ARC Special Research Centre: Particulate Fluids Processing Centre (PFPC)  
<http://www.pfpc.unimelb.edu.au/>

ARC Special Research Centre: Perceptive & Intelligent Machines in Complex Environments  
<http://www.pimce.edu.au/>

ARC Special Research Centre: Ultra -Broadband Information Networks (CUBIN)  
<http://www.ee.unimelb.edu.au/research/cubin/> incorporating the Photonics Research Laboratory (PRL) <http://www.ee.unimelb.edu.au/research/prl/index.html>

## **Co-operative Research Centres (CRCs)**

CRC for Chronic Inflammatory Diseases  
<http://www.crcid.com.au/>

eWater CRC  
<http://www.ewatercrc.com.au/>

CRC for Greenhouse Gas Technologies (CO2CRC)  
<http://www.chemeng.unimelb.edu.au/CO2CRC/index.html>

CRC for Irrigation Futures  
<http://www.irrigationfutures.org.au/>

CRC for Polymers  
<http://www.crcp.com.au/>

CRC for Smart Internet Technology  
<http://www.smartinternet.com.au/>

CRC for Spatial Information (CRC-SI)  
<http://spatialinfocrc.org/>

## **Other Centres and Laboratories**

Advanced Centre for Automotive Research and Testing  
<http://www.acart.com.au/>

ARC Centre of Excellence - Design in Light Metals  
<http://www.mame.mu.oz.au/research/groups/deslab.html>

ARC Research Network on Intelligent Sensors, Sensor Networks and Information Processing  
<http://www.ee.unimelb.edu.au/ISSNIP/>

Centre for Environmental Applied Hydrology (CEAH)  
<http://www.civenv.unimelb.edu.au/research/centres/ceah.html>

Australian Centre for Environmetrics (ACE)  
<http://www.civenv.unimelb.edu.au/research/centres/ace.html>

Centre for Geographic Information System and Modelling (GISM)  
<http://www.geom.unimelb.edu.au/cgism/index.html>

Centre for Nanoscience and Nanotechnology (CNST)  
<http://www.cnst.unimelb.edu.au/>

Centre for Spatial Data Infrastructures and Land Administration  
[http://www.geom.unimelb.edu.au/research/SDL\\_research/index.html](http://www.geom.unimelb.edu.au/research/SDL_research/index.html)

Grid Computing & Distributed Systems (GRIDS) Laboratory  
<http://gridbus.org/>

International Technologies Centre (IDTC)  
<http://www.civenv.unimelb.edu.au/research/centres/idtc.html>

Melbourne Water Research Centre  
<http://www.civenv.unimelb.edu.au/research/centres/mwrc.html>

Melbourne Systems Laboratory  
<http://www.ee.unimelb.edu.au/research/msl/index.html>

National ICT Australia (NICTA)  
<http://www.nicta.com.au/>

NHMRC Centre of Clinical Research Excellence – Gait Analysis & Gait Rehabilitation  
<http://www.mame.mu.oz.au/research/groups/gaitlab.html>

Neuroengineering Research Laboratory  
<http://www.neuroeng.unimelb.edu.au/>

Research Centre for Advanced By-Wire Technology (RABiT)  
<http://www.mame.mu.oz.au/research/groups/rabit.html>

Research Network for a Secure Australia (RNSA)  
<http://www.civenv.unimelb.edu.au/research/centres/rnsa.html>

Signals and Systems Research Laboratory  
<http://www.ee.unimelb.edu.au/research/ssl/index.html>

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Please note, Research Themes have been listed in alphabetic order and are not indicative of preference.

