



# Faculty of Science and Affiliated Research Centres

[www.sci.monash.edu.au/postgrad/rescentres.html](http://www.sci.monash.edu.au/postgrad/rescentres.html)



**MONASH** University  
Science



GROUP OF EIGHT

# Faculty of Science and Affiliated Research Centres

## Faculty of Science and Monash University Research Centres

### Australian Centre for Biodiversity

The Australian Centre for Biodiversity (ACB) at Monash University has been established to focus on forecasting and analysing alternative ecological futures.

Director: **Professor Ralph Mac Nally**  
Email: [ralph.macnally@sci.monash.edu.au](mailto:ralph.macnally@sci.monash.edu.au)  
Website: [www.biolsci.monash.edu.au/research/acb/](http://www.biolsci.monash.edu.au/research/acb/)

### Centre for Biospectroscopy

The centre makes use of vibrational spectroscopy, ab initio quantum mechanical calculations and chemometric techniques to carry out research in the areas of biospectroscopy, high resolution molecular spectroscopy, laser spectroscopy and computational chemistry.

Director: **Professor Don McNaughton**  
Email: [donald.mcnaughton@sci.monash.edu.au](mailto:donald.mcnaughton@sci.monash.edu.au)  
Website: [www.chem.monash.edu.au/biospec/](http://www.chem.monash.edu.au/biospec/)

### Centre for Modelling of Stochastic Systems (cross-faculty centre)

The main objectives of the centre are to develop the modelling part of the theory of stochastic systems, which is an integral step towards applications to practical problems in industry; to develop an Actuarial program; and to promote cooperation in research and graduate supervision in these areas.

Director: **Professor Fima Klebaner**  
Email: [fima.klebaner@sci.monash.edu.au](mailto:fima.klebaner@sci.monash.edu.au)  
Website: [www.cmss.monash.edu.au/](http://www.cmss.monash.edu.au/)

### Centre for Stellar and Planetary Astrophysics (CSPA)

The primary role of the Centre for Stellar and Planetary Astrophysics is to act as a focus for stellar & planetary research within the Australian astronomical community as well as focussing and strengthening all aspects of astronomy and astrophysics at Monash University.

Director: **Professor John Lattanzio**  
Email: [john.lattanzio@sci.monash.edu.au](mailto:john.lattanzio@sci.monash.edu.au)  
Website: [www.cspa.monash.edu.au/](http://www.cspa.monash.edu.au/)

### Monash University Synchrotron Science Centre

The Monash Centre for Synchrotron Science (MCSS) encourages and promotes interdepartmental research programs at Monash University which make use of synchrotron science.

Director: **Professor Robert Lewis**  
Email: [rob.lewis@sync.monash.edu.au](mailto:rob.lewis@sync.monash.edu.au)  
Website: [www.sync.monash.edu.au/](http://www.sync.monash.edu.au/)

### Water Studies Centre (WSC)

The Water Studies Centre aims to generate and exchange scientific knowledge to underpin the effective management of Australia's waterways.

Director: **Dr Mike Grace**  
Email: [mike.grace@sci.monash.edu.au](mailto:mike.grace@sci.monash.edu.au)  
Website: [www.sci.monash.edu.au/wsc/](http://www.sci.monash.edu.au/wsc/)

# Australian Research Council (ARC)/National Health and Medical Research Council (NHMRC) Centres

## Centre for Environmental Stress and Adaptation (CESAR)

The Centre for Environmental Stress and Adaptation (CESAR) is an ARC Special Research Centre for biomonitoring, chemical stress and climatic stress.

Director: **Professor Ary A. Hoffmann**

Email: [ary@unimelb.edu.au](mailto:ary@unimelb.edu.au)

Website: [www.cesar.org.au/](http://www.cesar.org.au/)

Faculty contact:

[stephen.mckechnie@sci.monash.edu.au](mailto:stephen.mckechnie@sci.monash.edu.au)

## ARC Special Research Centre for Green Chemistry

The Centre for Green Chemistry aims to become a world leader for research, industrial collaboration and teaching in the field of Green Chemistry and to harness this expertise to enhance the international competitiveness of Australian industry.

Director: **Professor Milton Hearn**

Email: [milton.hearn@monash.edu.au](mailto:milton.hearn@monash.edu.au)

Website: [www.chem.monash.edu.au/green-chem/](http://www.chem.monash.edu.au/green-chem/)

## Centre of Excellence for Coherent X-Ray Science

The ARC Centre of Excellence for Coherent X-Ray Science (CXS) brings together leading Australian researchers in the fields of X-ray physics, the design and use of synchrotron radiation sources, and the preparation, manipulation and characterization of biological samples.

Director: **Professor Keith Nugent**

Email: [knugent@unimelb.edu.au](mailto:knugent@unimelb.edu.au)

Website: [www.coecxs.org/index.php?mod=Dynamic&id=32](http://www.coecxs.org/index.php?mod=Dynamic&id=32)

Faculty contacts:

[andrei.nikulin@sci.monash.edu.au](mailto:andrei.nikulin@sci.monash.edu.au)

[rob.lewis@sync.monash.edu.au](mailto:rob.lewis@sync.monash.edu.au)

## Centre of Excellence for Electromaterials Science

The new ARC Centre of Excellence for Electromaterials Science brings together eminent scientists to develop the nano-science and nano-technology related to the movement of electric charge within and between materials.

Executive Research Director:

**Professor Gordon Wallace**

Email: [gordon\\_wallace@uow.edu.au](mailto:gordon_wallace@uow.edu.au)

Website: [www.electromaterials.edu.au/](http://www.electromaterials.edu.au/)

Faculty contact:

[douglas.macfarlane@sci.monash.edu.au](mailto:douglas.macfarlane@sci.monash.edu.au)

## Centre of Excellence for Free Radical Chemistry and Biotechnology

ARC Centre of Excellence for Free Radical Chemistry and Biotechnology was established to provide the breakthrough science that will expand the frontiers of understanding of the chemistry of free radical processes and enable the development of advanced materials and technologies for building and transforming industry.

Director: **Professor Carl Schiesser**

Email: [director@freeradical.org.au](mailto:director@freeradical.org.au)

Website: [www.freeradical.org.au/index.php?option=com\\_content&task=view&id=240&Itemid=78](http://www.freeradical.org.au/index.php?option=com_content&task=view&id=240&Itemid=78)

Faculty contact:

[roy.jackson@sci.monash.edu.au](mailto:roy.jackson@sci.monash.edu.au)

## Cooperative Research Centres (CRC) with Faculty of Science involvement

### CRC for Biomedical Imaging Development

The Cooperative Research Centre for Biomedical Imaging Development aims to build linkages between scientific researchers and users of research, such as industry, the field of medical science and technology.

Chief Operating Officer: **Dr Gerard Roe**

Contact website: [www.crcbid.com.au/html/about\\_us\\_contact.html](http://www.crcbid.com.au/html/about_us_contact.html)

Website: [www.crcbid.com.au/](http://www.crcbid.com.au/)

Faculty contact:

[rob.lewis@sci.monash.edu.au](mailto:rob.lewis@sci.monash.edu.au)

### e-Water CRC

eWater's technologies and knowledge will enhance the ability of industry to make water management decisions that are cost-effective, transparent, and scientifically defensible.

Chief Executive: **Professor Gary Jones**

Email: [gary.jones@ewatercrc.com.au](mailto:gary.jones@ewatercrc.com.au)

Website: [www.ewatercrc.com.au/](http://www.ewatercrc.com.au/)

Faculty contact:

[michael.grace@sci.monash.edu.au](mailto:michael.grace@sci.monash.edu.au)

### CRC for Greenhouse Gas Technologies (CO<sub>2</sub> CRC)

The Cooperative Research Centre for Greenhouse Gas Technologies (CO<sub>2</sub> CRC) is one of the world's leading collaborative research organisations focused on carbon dioxide (CO<sub>2</sub>) capture and geological storage (geosequestration).

Chief Executive: **Dr Peter Cook**

Email: [pjcook@co2crc.com.au](mailto:pjcook@co2crc.com.au)

Website: [www.co2crc.com.au/](http://www.co2crc.com.au/)

Faculty contact:

[alan.chaffee@sci.monash.edu.au](mailto:alan.chaffee@sci.monash.edu.au)

### CRC for Polymers

The Cooperative Research Centre for Polymers' research focus is on developing 'functional' and higher value-added specialty polymers for emerging high growth opportunities.

Chief Executive Officer: **Dr Ian Dagley**

Email: [polymers@crpc.com.au](mailto:polymers@crpc.com.au)

Website: [www.crcp.com.au/index.php?](http://www.crcp.com.au/index.php?)

Faculty contact:

[milton.hearn@sci.monash.edu.au](mailto:milton.hearn@sci.monash.edu.au)

## Major National Research Facilities with Faculty of Science involvement

### AuScope – Simulation and Modelling

AuScope provides basic infrastructure aimed at understanding the structure and evolution of the Australian continent. The Simulation and Modelling component of AuScope is charged with the development of a suite of software packages for the modelling and analysis of geological processes including plate tectonics, lithosphere and mantle dynamics, ore deposit formation, rock physics and chemistry, basin evolution and earthquake hazard.

Website: [www.auscope.org.au](http://www.auscope.org.au)

Faculty contact:

[louis.moresi@sci.monash.edu.au](mailto:louis.moresi@sci.monash.edu.au)