WORKSHOP:
AIR POLLUTION EXPOSURE ASSESSMENT FOR HEALTH STUDIES

Date:	Wednesday 10th and Thursday 11th December, 2014
Location:	Woolcock Institute of Medical Research, Sydney
International Speaker:	Professor Michael Brauer, School of Population and Public Health, University Of British Columbia, Canada

General
The two-day workshop is being held under the auspices of the Centre for Air quality health and Research and evaluation (CAR).

The aim of the workshop is to:

- Improve understanding of the types of data available for predicting air pollution exposure concentrations on population and individual levels
- Discuss benefits, limitations and quality assurance aspects of specific data use.
- Improve understanding and discuss practical examples of tools and techniques that can be used for exposure assessment
- Familiarisation of GIS tools for exposure assessment

Who is the workshop relevant to?
People working or interested in the field of air quality exposure assessment with a public health, research, monitoring or policy background. Some prior experience in the area is assumed.

The workshop will include a mix of presentations, case studies and discussion.

Software for the workshop
Participants are advised to install Quantum GIS Version 2.6 (Brighton) on their computer prior to the workshop. If there are any problems there will be staff available to help with the installation at the start of both days.

The link to download the QGIS software is: http://qgis.org/en/site/forusers/download.html. Please make sure the latest version (2.6) is downloaded.

It is furthermore recommended that participants complete a small part of the tutorial prior to the workshop which can be found in the manual at: http://docs.qgis.org/2.2/en/docs/training_manual/

Further instruction will be sent to participants two weeks before the meeting.

Cost & registration:
The fee for the two-day workshop is: $500

Need to know more?
Email: car@sydney.edu.au **www.car-cre.org.au**

PROGRAM DAY 1
Wednesday 10th December, 9.00am-5pm

Data inputs for Exposure Assessment

Day 1 will include sessions discussing the different types of data available for predicting air pollution exposure concentrations on population and individual levels with practical examples

8.30-9.00am	**Registration**
	Technical support will be available during this time for QGIS installation
9.00-9.10am	**Welcome & introductions**
9.10-10.30am	**General introduction** Michael Brauer (University of British Columbia, Canada)
10.30-11.00am	**Morning tea**
11.00-11:45am	**Air quality data and exposure assessment in Australia** Yvonne Scorgie (NSW Department of Planning and Environment)
11:45am-12:30pm	**Exposure Assessment techniques** Michael Brauer (UBC, Canada)
12.30-1.20pm	**Lunch**
1.20-2.00pm	**Exposure Assessment techniques - continued** Michael Brauer (UBC, Canada)
2.00-3.00pm	**Australian examples of exposure assessment** **- LUR & Satellite data** Luke Knibbs (University of Queensland) **- ESCAPE (LUR)** Jane Heyworth (University of Western Australia) **- Blanket Network** Grant Williamson (University of Tasmania)
3.00-3.20pm	**Afternoon tea**
3.20-4.00pm	**Modelling** Martin Cope (CSIRO) - **Dispersion / CTM/ Deterministic** - **Emission Inventories** - **Model Validation (specific to modelling)**
4.00-4:20 pm	**Emerging Developments** Lydia Morawska (QUT) and Michael Brauer (UBC, Canada)
4:20 - 5pm	**General discussion/ Questions and responses**

PROGRAM DAY 2
Thursday 11th December, 9.00am-4pm

Techniques and Tools for exposure assessment

Day 2 will include hands-on application of exposure assessment techniques. The aim of this day is to get an understanding on how to use data and apply it to different situations

8.45-9.00am	**Technical support will be available during this time**
9.00-9.10am	**Welcome & introductions**
9.10-10.40am	**GIS exercises and LUR** Grant Williamson (UTas) and Michael Brauer (UBC Canada)
10.40-11.00am	**Morning tea**
11.00am-12.30pm	**GIS exercises and LUR - continued** Grant Williamson (UTas) and Michael Brauer (UBC Canada)
12:30-1.30pm	**Lunch**
1.30-2.15pm	**Spatio-temporal exposure and epidemiology using fixed site monitoring data** Adrian Barnett (Queensland University of Technology)
2.15-2.30pm	**Model data / model blending** Martin Cope (CSIRO)
2.30-2.50pm	**Afternoon tea**
2.50-3.30pm	**Global Burden of Disease Study** Michael Brauer (UBC, Canada)
3.30-4.00pm	General discussion/ Questions and responses