

**CAR WORKSHOPS
AND SYMPOSIA
PROGRAM GUIDE
2013**



Welcome

The Centre for Air quality and health Research and evaluation (CAR), in association with our partners, is hosting a number of events on the topic of air pollution and health between 19th and 25th September in Sydney and Newcastle. We are fortunate to have three leading international experts, Professor C. Arden Pope, Professor Bert Brunekreef and Professor Ross Anderson, contributing to our program of events.

The events include lectures, workshops, and symposia. They are targeted to a diverse range of audiences with an interest in air pollution and health. These include scientists and researchers, people working in government and industry, consumer organisations and members of the general public. Information on the target audience for each particular event is included in the program below.

If you have any specific questions about the events please contact car@sydney.edu.au

We look forward to seeing you

Best Wishes

The Organising Committee

Program at a glance...

Date / Time	Details	Target Audience	Location
PUBLIC LECTURE SYDNEY			
Thursday 19 th September 2013 6:00pm - 7:15pm	<u>Public Lecture</u> Protecting the Community from the Effects of Urban Air Pollution	People interested in air pollution and health. No prior knowledge assumed.	Woolcock Institute of Medical Research, Sydney
WORKSHOPS			
Thursday 19 th September 2013 9:00am - 4:30pm	<u>Workshop 1</u> Exposure assessment methods in air pollution	People working or interested in air quality and health with a public health, research, monitoring or policy background. Some prior experience in the area is assumed	Woolcock Institute of Medical Research, Sydney
Friday 20 th September 2013 10:10am - 4:30pm	<u>Workshop 2</u> Assessing the health impact of air pollution	People working or interested in air quality and health with a public health, research, monitoring or policy background. Some prior experience in the area is assumed	Woolcock Institute of Medical Research, Sydney
COMMUNITY AND SCIENTIFIC ENGAGEMENT FORUM			
Monday 23 rd September 8:30am- 12:00pm	<u>Day 1 Training</u> Air Pollution and Health Training	People who are interested in obtaining general information on the science behind air pollution and health including general community and academics and consultants who are not specialists in air pollution and health.	City Hall, Newcastle
Monday 23 rd September 1:30 - 4:00pm	<u>Day 1 Symposium</u> Contextualising Health Issues in Land Use Conflicts	People who are interested in the broader community engagement and planning issues that contextualise concerns about land use conflicts and air pollution.	City Hall, Newcastle
Tuesday 24 th September 8:30am - 5:10pm	<u>Day 2 Symposium</u> Air Pollution and Health Experts presentation	People who are interested in the latest research on air pollution. Online questions submitted at Hunter Air and Health website will also be addressed.	City Hall, Newcastle
PUBLIC LECTURE NEWCASTLE			
Tuesday 24 th September Time: TBA	<u>Public Lecture</u> Presented Prof Arden Pope	People interested in air pollution and health. No prior knowledge assumed.	City Hall, Newcastle
AIR POLLUTION RESEARCH			
Wednesday 25 th September 9am - 3:30pm	<u>Air pollution and health research: role in surveillance, policy, and planning</u>	Organisations and individuals that are engaged in air pollution research, as well as policy makers, or those seeking to influence policy, on air quality, emissions, and planning. Also relevant to those interested in the translation of scientific evidence into policy and practice.	Hunter Medical Research Institute, Newcastle

PUBLIC LECTURE SYDNEY

Protecting the Community from the Effects of Urban Air Pollution

Thursday 19th September

6:00-7:15pm

Hosted by the Centre for Air quality, health Research and evaluation (CAR)
and the Menzies Centre for Health Policy

Presented by:
Professor Ross Anderson

General

Join us for a free Public Lecture held at the Woolcock Institute of Medical Research on Thursday the 19th September 2013 from 6pm - 7.15pm.

The Centre for Air quality and health Research and evaluation (CAR) in conjunction with the Menzies Centre for Health Policy present **Professor Ross Anderson** from the University of London and King's College London. Professor Anderson will discuss the global burden of air pollution, our current knowledge and limitations on the effects of health.

Who are the workshops relevant to?

People with a general interest in air pollution and health

Where:

Level 5,

The Woolcock Institute of Medical Research

431 Glebe Point Rd

Glebe NSW 2037

Cost & registration:

This is a free event, but spaces are limited

Register [here](#)

Need to know more?

Email: car@sydney.edu.au

WORKSHOPS

Thursday 19th and Friday 20th September
Sydney

Hosted by the Centre for Air quality, health Research and evaluation (CAR)

Facilitated by:

Professor Bert Brunekreef (The Netherlands) and

Professor Ross Anderson (United Kingdom)

General

Two workshops are being held under the auspices of the Centre for Air quality, health Research and evaluation (CAR). Professors [Bert Brunekreef](#) (University of Utrecht) and [Ross Anderson](#) (St George's, University of London and King's College London) will facilitate the workshops. Together, they bring many years of experience in conducting internationally relevant air quality and health research and working with policy and standard setting agencies to enable translation of research into policy. They will contribute this knowledge and experience to both workshops.

Who are the workshops relevant to?

People working or interested in the field of air quality and health with a public health, research, monitoring or policy background. Some prior experience in the area is assumed.

Each workshop will include a mix of presentations, case studies and discussion. The workshops will allow ample time for discussion and attendees should come prepared to present examples from their own work including data and/or a few power point slides to stimulate and contribute to discussion. Attendees are also welcome to bring along papers which highlight interesting applications of methods for discussion. Some pre-reading may be provided.

Cost & registration:

You are able to register for either or both workshops; however spaces will be limited to 25-30 people.

The cost of each workshop is \$130 inclusive of GST and includes morning, lunch and afternoon teas. If registering for both workshops there will be a reduced combined cost of \$225 total. Cancellation after 10 September will incur an administration fee of \$60 per person per workshop.

[Register here](#)

Need to know more?

Email: car@sydney.edu.au

Workshop 1 Thursday 19 September

Exposure assessment methods in air pollution epidemiology-current and emerging methods

Objectives of the workshops:

- Discuss current and emerging exposure assessment methods in the field of air pollution exposures
- Review and discuss how these methods are applied in epidemiological studies
- Understand the importance of temporal and spatial variability in exposure assessment
- To learn about source apportionment of pollutants and pollutants of emerging significance
- To provide a forum for active discussion on these topics.

[Register here](#)

Workshop 2 Friday 20 September

Assessing the health impact of air pollution and translation of research into policy

Objectives of the workshops:

- Discuss and review the latest evidence on the health effects of air pollution
- Learn about how exposure response functions are used in assessing risk associated with air pollution
- Review how epidemiological evidence is used to quantify air pollution impacts including discussion of the Global Burden of Disease project
- Discuss and learn about how evidence is translated into air-health policy
- To provide a forum for active discussion on these topics.

[Register here](#)



PROGRAM

Workshop 1: Thursday 19 September, 9.00am-4.30pm

Exposure assessment methods in air pollution epidemiology- current and emerging methods

8.45-9.00am	Registration
9.00-9.10am	Welcome & introductions
9.10-10.40am	Exposure assessment methods commonly used in epidemiological studies and their advantages and disadvantages. This session will include an introduction to exposure assessment methods (Bert Brunekreef) as well as examples used in the ESCAPE study of cohorts (Bert Brunekreef) and the London study of traffic pollution (Ross Anderson). Attendees will be invited to discuss exposure methods used in their own studies or to discuss potential methods for future studies.
10.40-11.00am	Morning tea
11.00am-12.30pm	How important is temporal and spatial variability? How detailed should exposure assessment become? This session will discuss the benefits and limitations of using more detailed ambient air quality exposure data for epidemiological studies, eg: time/activity pattern data, small area exposure estimates (Bert Brunekreef & Ross Anderson).
12.30-1.20pm	Lunch
1.20-3.00pm	New & emerging exposure methods This session will discuss newer exposure assessment methods, eg use of satellite data for bushfire smoke exposure estimation and for global exposure estimation for the Global Burden of Disease (GBoD) project (Fay Johnston, Ross Anderson); use of sensing technologies using GPS systems. Source apportionment of pollutants and its role (CSIRO-TBC)
3.00-3.20pm	Afternoon tea
3.20-4.00pm	Air pollutants of emerging health significance Should we be turning our attention to monitoring of other pollutants? How, what, when? (Bert Brunekreef)
4.00-4.30pm	General discussion/ Questions and responses

PROGRAM

Workshop 2: Friday 20 September, 10.10-4.30pm

Assessing the health impact of air pollution and translation of research into policy

10.10-10.30am	Registration & morning tea
10.30-10.40am	Welcome & introductions
10.30-11.30am	Latest evidence on the health effects of air pollution Ross Anderson and Bert Brunekreef will present & discuss on the latest evidence citing a few examples of recent work, including systematic reviews and the recent WHO/EU REVIHAAP (Review of Evidence on Health Aspects of Air Pollution), a desktop exercise.
11.30am-11.35am	Short break/stretch
12.40-1.30pm	Lunch
3.00-3.20pm	Afternoon tea
3.20pm-4.00pm	How are evidence and cost-benefit analyses interpreted by policy makers to inform standards? Translation of science into policy- local (Wayne Smith) Comment and discussion with Ross Anderson and Bert Brunekreef
4.00-4.30pm	General discussion/ Questions and responses

COMMUNITY AND SCIENTIFIC ENGAGEMENT FORUM: AIR POLLUTION FORUM

Monday 23rd- Tuesday 24th September
Newcastle

Overview

This event is being hosted by the Centre for Air quality, health Research and evaluation (CAR) and HMRI/University of Newcastle. The community scientific engagement forum consists of a training session and two day symposia, which are being held at the Newcastle City Hall, 23-24th September 2013.

Topics covered:

- Sources and health impacts of air pollution in the Hunter
- Environmental monitoring data in the Hunter
- Fine particulates - where do they come from and what is their chemical composition
- Health impacts of coal dust
- The role of health studies/epidemiology in answering questions related to air pollution exposures
- Contextualising health issues in land use conflicts

A detailed program is available [here](#)

Day 1 - Morning: Monday 23rd September

Air Pollution and Health Training

Join this interactive classroom style introduction to air pollution and health. It will be an excellent overview to the science behind air pollution and health, ask questions of the expert presenters and gain useful background information for the presentations on Day 2. Consider this a slower paced introduction to the science presented on Day 2 by our international experts.

Who is this workshop relevant to?

People who are interested in obtaining general information on the science behind air pollution and health including general community and academics and consultants who are not specialists in air pollution and health.

Day 1 - Afternoon: Monday 23rd September

Contextualising Health Issues in Land Use Conflicts

Air pollution is just one of many concerns in land use conflicts, we consider the interaction between a range of land use conflicts and how air pollution issues become part of a complex mix of social and health impacts. Can we do community participation better? Case studies of community participation methods from the Hunter and further afield will be considered. How can planning processes be improved? Recent planning decisions and commentary from the Planning and Assessment Commission will be reviewed and implications of amending the Mining SEPP will be considered.

Who is this symposium relevant to?

People who are interested in the broader community engagement and planning issues that contextualise concerns about land use conflicts and air pollution.

Day 2 – Tuesday 24th September

State of the Art Presentations by Air Pollution and Health Experts

International health experts, including three WHO advisers [C. Arden Pope](#) (USA), [Bert Bruekreef](#) (NL), and [Ross Anderson](#) (UK), share the latest research on air pollution and answer questions. Particulate health impacts, coal dust and other pollutants will be covered. Please see the programs for more detailed information.

Who is this symposium relevant to?

People who are interested in the latest research on air pollution. Online questions submitted at Hunter Air and Health [website](#) will also be addressed.

Cost & registration:

You are able to register for one, two or all workshop/symposia, however spaces will be limited.

Register [here](#)

Organisation	Day 1 AM	Day 1 PM	Day 2 All Day
Academics, Government (Local and State), Consultants & Industry	\$88	\$88	\$165
Community, NGOs & Students	Free	Free	\$40

Need to know more?

Email: car@sydney.edu.au



PROGRAM

Community and Scientific Engagement Forum

Day 1 (Morning): Monday 23rd September, 8:30-12pm

[Air Pollution and Health Training](#)

Morning	Topic	Details	Presenter
8.30-9:00am	Registration	Please arrive early to register for Day 1 and/or Day 2 events	
9:00-9.10am	Welcome		
9.10-9.50am	Introduction to air pollution	Sources of air pollution and potential health effects with focus on particulates but also addressing SO _x , NO _x , mercury, ozone, dioxins, furans, VOCs	Geoff Morgan Centre for Air quality & health Research and evaluation (CAR), University of Sydney
9.50-10.30am	Finding Air Quality Data in Newcastle, Hunter and NSW	How to search OEH Air Quality Monitoring networks, recent local research initiatives. Role of pollution inventories.	Howard Bridgman School of Environmental and Life Sciences University of Newcastle
10.30-11am	Break		
11am - 12 noon	How to investigation the relationship between air pollution and health	How air standards are set based on population studies. Strengths and weaknesses of different study designs. Epidemiological versus toxicological and risk assessment methods. Methods relevant to communities near open cut coal mines and coal train rail lines.	Guy Marks Centre for Air quality & health Research and evaluation (CAR), Woolcock Institute of Medical Research

PROGRAM

Community and Scientific Engagement Forum

Day 1 (Afternoon): Monday 23rd September, 1:30-
4pm

Contextualising Air Pollution and Health

Time	Topic	Details	Presenter
1:30-1:45pm	Welcome	Overview of Forum	
1:45-2:15pm	How to explore and mitigate psycho-social issues associated with industrial developments	Review of social impact studies conducted in the Hunter. Case studies of community participation methods and options for the future	Joanne Everingham Centre for Social Responsibility in Mining UQ
2:15-2:45pm	What can we learn from the Planning and Assessment Commissions statements on coal mining approvals	Review of advice provided by PAC on strategic approaches to environmental impact assessment relevant to health and psychosocial health issues	Pam Dean Jones Umwelt (Australia)
2:45-3:15pm	TBA		
3:15-4pm	Review and questions		Panel

PROGRAM

Community and Scientific Engagement Forum

Day 2: Tuesday 24th September, 8:30-5:10pm

Contextualising Air Pollution and Health

Time	Topic	Details	Presenter
8:30-9am	Registration		
9am	Welcome and Overview of the day		Guy Marks Conference co-convenor Centre for Air quality & health Research and evaluation (CAR), Woolcock Institute of Medical Research
9:10	Summary of questions sent to the Forum	Based on questions proposed and voted on by community members, councils and other stakeholders online	Craig Dalton Conference co-convenor Conjoint Senior Lecturer School of Medicine and Public Health University of Newcastle, HMRI
9:20am	Overview of air pollution in the Hunter, New England NSW	Sources and comparison with standards	Matt Riley Director Climate and Atmospheric Science at the NSW Office of Environment and Heritage
10am	Health effects of particulates	Sources and differential impacts of PM10 and PM 2.5. Major studies linking health and particulates.	C. Arden Pope Brigham Young University USA
11am	Morning Tea		
11:30am	Upper Hunter Particle Speciation Study	Sources and composition of PM 2.5 particles from 2012 monitoring study by CSIRO/ANSTO	Mark Hibberd Atmospheric Science, CSIRO
12pm	Latest research on air pollution and health	Covering latest research and policy implications from a European perspective including transport pollution.	Ross Anderson MRC-HPA Centre for Environment and Health, UK.
12:40pm	Lunch		

1:40pm	Coal dust as a pollutant	Review of epidemiological and toxicological studies on coal dust	Bert Brunekreef Utrecht University The Netherlands
2:20pm	How to study the relationship between air pollution and health in a Hunter/mining context	Methodological considerations. Filling the gaps in knowledge. Potential study options	Guy Marks Centre for Air quality & health Research and evaluation (CAR) , Woolcock Institute of Medical Research
3pm	Extra session to be advised	Responsive to community questions submitted online	
3:30pm	Afternoon Tea		
3:50pm	Panel Q&A	Presenters respond to questions from Newcastle and remote venues	
4:50pm	Summary comments from Expert Panel	Panel summarise main points and make recommendations	Guy Marks, C Arden Pope, Ross Anderson, Bert Brunekreef, Mark Hibberd
5-5:10pm	Thank you and Close		Guy Marks and Craig Dalton

PUBLIC LECTURE NEWCASTLE

Tuesday 24th September

Hosted by the Centre for Air quality, health Research and evaluation (CAR),
University of Newcastle and Hunter Medical Research Institute

Presented by:
Professor Arden Pope

General

Join us for a free Public Lecture held at the City Hall, Newcastle on Tuesday 24th September 2013.
Time to be announced shortly.

The Centre for Air quality and health Research and evaluation (CAR) in conjunction with the University of Newcastle and the Hunter Medical Research Institute present [Professor Arden Pope](#) from Brigham Young University, U.S.A.

Who are the workshops relevant to?

People with a general interest in air pollution and health

Where:

[City Hall, Newcastle](#)

Cost & registration:

This is a free event and no registration is required for this event.

Need to know more?

Email: car@sydney.edu.au

AIR POLLUTION AND HEALTH RESEARCH: ROLE IN SURVEILLANCE, POLICY AND PLANNING

Wednesday 25th September

Hosted by the Centre for Air quality, health Research and evaluation (CAR),
University of Newcastle and Hunter Medical Research Institute

General

This symposium aims to acknowledge the various perspectives of the users of scientific research on air pollution and health as well as to explore the ways in which scientific research on air pollution and health intersects with environmental surveillance, policy and planning. The symposium also aims to develop strategies for improved translation of evidence from scientific research on air pollution into public understanding and policy

Who is this symposium relevant to?

This symposium is relevant to organisations and individuals that are engaged in air pollution research, as well as organisations/people that are making policy, or seeking to influence policy, on air quality, emissions, and planning. The symposium is also relevant to those interested in the translation of scientific evidence into policy and practice.

Cost & registration:

You are able to register for this symposium; however space is strictly limited to the first 100 people. Parking is limited to the first 20 cars.

The cost is \$165 for Academics, Government (Local and State), Consultants & Industry and \$40 for Community, NGOs & Students

[Register here](#)

Need to know more?

Email: car@sydney.edu.au



PROGRAM

Wednesday 25th September, 9.00am-3:30pm

Air pollution and health research: role in surveillance, policy, and planning

Time	Topic	Presenter
Session 1: Role of scientific research in surveillance, policy and planning <ul style="list-style-type: none">• Tension between gaining knowledge and informing policy• Do we need local data or can we use existing international information?• Dealing with local issues		
9:05-9:15am	Policy perspective	Ann-Louise Crotty NSW EPA Office of Environment and Heritage
9:15-9:25am	Consumer perspective	John Drinan Singleton Shire Healthy Environment Group
9:25-9:35am	Science perspective	Bert Brunekreef Utrecht University , The Netherlands
9:35-9:45am	Industry perspective	Michael Crowley NSW Roads and Maritime Services
9:45-10:30am	Panel Discussion	Chair: Wayne Smith Environmental Health Branch NSW Health
10:30-11:00am	Morning tea	
Session 2: Challenges in doing scientific research on air quality and health <ul style="list-style-type: none">• The ideal vs pragmatic (methodological complexity vs feasibility and understanding)• Independence• Quality assurance• Approvals, publication, confidentiality• Cost and funding		
11:00-11:10am	International perspective	Arden Pope Brigham Young University USA
11:10-11:20am	Australian research perspective	Guy Marks Centre for Air quality & health Research and evaluation (CAR) , Woolcock Institute of Medical Research
11:20-11:30am	Policy user perspectives	Wayne Smith Environmental Health Branch NSW Health

Time	Topic	Presenter
12-12:30pm	Lunch	
12:30-1:30pm (jointly with HMRI seminar series)	"What does the European Commission think it needs to know about the science of health effects of outdoor air pollution?" 40min presentation with 20min for discussion	Ross Anderson MRC-HPA Centre for Environment and Health United Kingdom
Session 3: Translation publication and communication of research on air pollution and health <ul style="list-style-type: none"> • Public communication of complex information • Engagement of community groups and consumers in the research and policy process • Building confidence and understanding in the scientific process amongst the community and policy makers 		
1:30-1:40pm	Media perspective	Melissa Sweet Journalist & Adjunct Senior Lecturer Sydney School of Public Health, University of Sydney
1:40-1:50pm	Researcher perspective	Bert Brunekreef Utrecht University , The Netherlands
1:50-2pm	Government perspective	Craig Dalton University of Newcastle
2-2:10pm	Consumer perspective	Michelle Goldman Asthma Foundation of NSW
2:10-2:55pm	Panel discussion and final remarks	Chair: Guy Marks Centre for Air quality & health Research and evaluation (CAR) , Woolcock Institute of Medical Research
2:55-3:30pm	Afternoon tea	

About the international presenters



Professor Ross Anderson

[MRC-HPA Centre for Environment and Health](#)

United Kingdom

Prof of Epidemiology and Public Health, Ross holds posts at both at the Division of Population Health Sciences and Education, St George's, University of London and at the Environmental Research Group, King's College London.

Prof Ross Anderson is a respiratory epidemiologist with a longstanding interest in the epidemiology of asthma and the health effects of air pollution. His research in this area has included time-series studies in the UK, Europe and Hong Kong as well as extensive systematic reviews and meta-analyses. More recently he has been investigating the effects of long term exposure to air pollution using health datasets from the UK and ISAAC and is also coordinating studies of the health effects of exposure to traffic pollution in London. He is currently serving on a number of policy related committees, including the WHO Scientific Advisory Committee for reviewing the evidence on health aspects of air pollution for the European Union and the UK Committee on the Medical Effects of Air Pollution (COMEAP). Prof Anderson recently retired from the US Health Effects Institute Review Committee. He co-chairs the Expert Groups on chronic respiratory disease and on air pollution for the Global Burden of Disease project.



Professor C. Arden Pope, III

[Brigham Young University](#)

United States of America

Prof C. Arden Pope, III is currently the Mary Lou Fulton Professor of Economics. Prof Pope has perhaps contributed the most important research papers on the relationship between particulates and health outcomes. Many air standards around the world are referenced to his research. He received his Ph.D. from Iowa State University (Economics/Statistics, 1981) and was a Fellow at the Harvard School of Public Health (Environmental Health and Public Policy, 1992/93). He has conducted research dealing with various natural resource and environmental issues and his cross-disciplinary research in environmental economics and air pollution epidemiology has resulted in seminal studies on the health effects of air pollution. Prof Pope has collaborated on various key studies of

human health effects of short- and long-term air pollution exposure and has played prominent roles in reviewing and interpreting this literature. He has been the recipient of various honours and awards including the Thomas T. Mercer Joint Prize from the American Association for Aerosol Research and the International Society for Aerosols in Medicine (2001), the Utah Governor's Medal for Science & Technology (2004), and Honorary Fellow of the American College of Chest Physicians (FCCP Hon, 2008).



Professor Bert Brunekreef

[University of Utrecht](#)
[The Netherlands](#)

Prof Bert Brunekreef is an environmental epidemiologist working in the field of air pollution, health and the environment. After earning his PhD, he left the Netherlands to spend a year at the Harvard School of Public Health. In 2005 he became director of the Institute for Risk Assessment Sciences at the University of Utrecht. His research interests cover a broad range of indoor and outdoor environmental exposures and their health effects. Prof Brunekreef often provides consulting services in the Netherlands and abroad on issues dealing with health and the environment. He was among the first researchers to show that damp, mouldy housing significantly increases the likelihood of childhood asthma.