Day 1 – Morning Preforum Educational Sessions – Air Pollution and Health Workshop

The morning presentations will be in an interactive classroom style format. It will be an excellent introduction to the science behind air pollution and health and provide useful background information for those attending the presentations on day 2. Local experts will provide an introduction to air pollution and health concepts with time for questions. More information:  [http://www.hunterairandhealth.net/forum.html](http://www.hunterairandhealth.net/forum.html)

<table>
<thead>
<tr>
<th>Morning</th>
<th>Topic</th>
<th>Details</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>8.30am</td>
<td>Registration</td>
<td>Please arrive early to register for Day 1 and/or Day 2 events</td>
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<tr>
<td>9-9.10am</td>
<td>Welcome</td>
<td></td>
<td>Convenors</td>
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<tr>
<td>9.10-9.50am</td>
<td>Introduction to air pollution</td>
<td>Sources of air pollution and potential health effects with focus on particulates but also addressing SOx, NOx, mercury, ozone, dioxins, furans, VOCs</td>
<td>Geoff Morgan, Centre for Air Quality and Health Research and Evaluation</td>
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<tr>
<td>9.50-10.30am</td>
<td>Finding Air Quality Data in Newcastle, Hunter and NSW</td>
<td>How to search OEH Air Quality Monitoring networks, recent local research initiatives. Role of pollution inventories.</td>
<td>Howard Bridgman, Uni of Newcastle</td>
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<tr>
<td>10.30-11am</td>
<td>Break</td>
<td>Morning tea in Cummings Room</td>
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<tr>
<td>11am-12 noon</td>
<td>How to investigation the relationship between air pollution and health</td>
<td>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.</td>
<td>Guy Marks, Centre for Air Quality and Health Research and Evaluation</td>
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<tr>
<td>12 noon</td>
<td>Morning session concludes.</td>
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Concerns about air pollution and health sit within a lived community experience and a planning framework and process that together shape and mediate perceptions in regard to air pollution and health.

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<th>Time</th>
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<th>Presenter</th>
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<tbody>
<tr>
<td>1pm</td>
<td>Registration</td>
<td>Foyer Newcastle City Hall</td>
<td>Guy Marks and Craig Dalton</td>
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<tr>
<td>1.30pm</td>
<td>Welcome and overview of Forum</td>
<td>Concert Hall, Newcastle City Hall</td>
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<tr>
<td>1.40pm</td>
<td>How to explore and mitigate psycho-social issues associated with industrial developments</td>
<td>Review of social impact studies conducted in the Hunter. Case studies of community participation methods and options for the future</td>
<td>Joanne Everingham Centre for Social Responsibility in Mining University of Queensland</td>
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<tr>
<td>2.10pm</td>
<td>What can we learn from the Planning and Assessment Commissions statements on coal mining approvals.</td>
<td>Review of advice provided by PAC on strategic approaches to environmental impact assessment relevant to health and psychosocial health issues.</td>
<td>Pam Dean Jones, Hunter Environment Institute</td>
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<tr>
<td>2.40pm</td>
<td>Break</td>
<td>Afternoon Tea in Cummings Room</td>
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<tr>
<td>3pm</td>
<td>Why can’t we all get along: Collaborative and Participatory Research</td>
<td>How can multiple stakeholders, industry, community, government and academia collaborate on research projects and turn their different perspectives into strengths.</td>
<td>Craig Dalton University of Newcastle</td>
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<tr>
<td>3.20pm</td>
<td>Health impacts of bush fires and wood smoke (This presentation is a late addition in response to the many questions about wood smoke)</td>
<td>Review of the health impacts of smoke from bush and domestic fires and their relative impact on health compared to other pollutants.</td>
<td>Fay Johnson Centre for Air Quality and Health Research and Evaluation</td>
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<tr>
<td>3.45-4.30pm</td>
<td>Review and questions</td>
<td>Panel</td>
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<td>Time</td>
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<tr>
<td>8.30-</td>
<td>Registration</td>
<td>Foyer of Newcastle City Hall</td>
<td>Guy Marks</td>
</tr>
<tr>
<td>9am</td>
<td>Welcome and overview of the day</td>
<td>Concert Hall – Newcastle City Hall</td>
<td>Conference co-convenor, Centre for Air Quality and Health Research and Evaluation</td>
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<tr>
<td>9.10am</td>
<td>Summary of questions sent to the Forum</td>
<td>Based on questions proposed and voted on by community members, councils and other stakeholders online</td>
<td>Craig Dalton Conference co-convenor. Conjoint Senior Lecturer School of Medicine and Public Health, Uni of Newcastle, HMRI.</td>
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<tr>
<td>9.20am</td>
<td>Overview of air pollution in the Hunter, New England, NSW</td>
<td>Sources and comparison with standards</td>
<td>Matt Riley</td>
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<td>Director Climate and Atmospheric Science at NSW Office of Environment and Heritage</td>
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<td>9.40am</td>
<td>Upper Hunter Particle Speciation Study</td>
<td>Sources and composition of PM2.5 particles from 2012 monitoring study by CSIRO/ANSTO</td>
<td>Mark Hibberd Atmospheric Science, CSIRO</td>
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<tr>
<td>10am</td>
<td>Health effects of particulates</td>
<td>Sources and differential impacts of PM10 and PM2.5. Major studies linking health and particulates.</td>
<td>C. Arden Pope Brigham Young University, USA</td>
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<tr>
<td>10.50am</td>
<td>Break</td>
<td>Morning tea in Cummings Room</td>
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<tr>
<td>11.20am</td>
<td>Latest research on air pollution and health</td>
<td>Covering latest research and policy implications from a European perspective including transport pollution.</td>
<td>Ross Anderson MRC-HPA Centre for Environment and Health, UK</td>
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<tr>
<td>12.10pm</td>
<td>Coal dust as a pollutant</td>
<td>Review of epidemiological and toxicological studies on coal dust</td>
<td>Bert Brunekeef Utrecht University, Netherlands</td>
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<tr>
<td>12.50pm</td>
<td>Lunch</td>
<td>Lunch in Cummings Room</td>
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<tr>
<td>1.50pm</td>
<td>How to study the relationship between air pollution and health in a Hunter/mining context</td>
<td>Methodological considerations. Filling the gaps in knowledge. Potential study options.</td>
<td>Guy Marks Centre for Air Quality and Health Research and Evaluation</td>
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<tr>
<td>2.40pm</td>
<td>How many people die from particulates in the Hunter?</td>
<td>Calculation of deaths as life years lost or saved by increases or decreases in ambient PM2.5 particulates</td>
<td>Richard Broome NSW Health</td>
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<tr>
<td>2.55pm</td>
<td>Panel commentary on how to study air pollution and health PM2.5 death data presentations</td>
<td>With questions from audience</td>
<td>Expert panel</td>
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<tr>
<td>3.30pm</td>
<td>Break</td>
<td>Afternoon tea in Cummings Room</td>
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<tr>
<td>3.50pm</td>
<td>Panel QandA</td>
<td>Presenters respond to questions from Newcastle and remote venues.</td>
<td>Expert panel</td>
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<td>4.50pm</td>
<td>Summary Comments from Expert Panel</td>
<td>Panel summarise main points and final comments.</td>
<td>Guy Marks, C Arden Pope, Ross Anderson, Bert Brunekeef, Mark Hibberd</td>
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<tr>
<td>5pm –</td>
<td>Thank you and close of Forum</td>
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<td>Guy Marks, Craig Dalton</td>
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<td>5.10pm</td>
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<td>7pm</td>
<td>Free Public Lecture by C. Arden Pope</td>
<td>“Particulate matter air pollution: science, controversy, and impact on public health”</td>
<td>C. Arden Pope</td>
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