



E-News

December 2016 - Edition 170

The CASANZ office will close over the holiday period from Wednesday, 21 December, 2016 and will reopen on Monday, 16 January, 2017.

Thank you to all our members and sponsors who have supported CASANZ throughout the year.

2016 has been a successful year for CASANZ that saw the launch of Australasia's first Certified Air Quality Professional program and a new and exciting training and events calendar, presenting members with many interesting and informative continuing professional development opportunities. We look forward to the new year which is a conference year for CASANZ, with Brisbane hosting the 23rd International Clean Air and Environment Conference (CASANZ2017) on 15-18 October. We look forward to catching up with our members and welcoming a host of international and overseas speakers and delegates.

Wishing everyone an enjoyable and safe holiday period.

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1. Message from the President

I am writing this from our temporary office building that we have moved to following the earthquake in Kaikoura. The earthquake gave Wellington a pretty good shake and a lot of office buildings are closed for assessment or repair. It's been a disruptive few weeks. Having to work from home or meet in various locations around Wellington (mainly cafes!) made me appreciate the daily contact I normally have with my colleagues. CASANZ also helps me to maintain my professional contacts, which is one of the reasons why I continue to be involved.

The old and new Executive met face-to-face before the Society AGM in Auckland so we could discuss our priorities. Our first priority was to ensure that we have a balanced budget going forward into next year. We now have a budget that we think is realistic and achievable. It still allows us to continue on with the good work that the team have been doing to refresh the society's activities and bring our business processes up to scratch. Our priorities over the coming year will be to:

- Increase society activities
- Ensure we have a successful conference
- Upgrade our website (expected to be completed by March 2017)

- Modernise our constitution and make sure we are compliant with relevant legislation

These priorities will be reviewed when the CASANZ Council (which includes representatives from the branches, SIGs, training and journal) meets in mid-March.

I would like to thank the outgoing President, Mark Hibberd and Treasurer, Gary Graham for their contributions over the past two years. Mark has also just retired from a long and successful career as a scientist at CSIRO. I wish them both the very best for the future.

I am really looking forward to working with the new executive team (Jason Choi, Doug Boddy, Francine Manansala and me) and Council. I hope that over the next two years you will see a more modern professional society with an updated constitution and a lot of activity happening.

All the best for the Christmas break.

Janet Petersen
CASANZ President

2. CASANZ 2017 Conference, Brisbane



THE CRITICAL ATMOSPHERE
CASANZ17
15-18 OCT 2017 • BRISBANE
CLEAN AIR SOCIETY OF AUSTRALIA AND NEW ZEALAND
23RD INTERNATIONAL CLEAN AIR AND ENVIRONMENT CONFERENCE

Call for Abstracts

CASANZ invites you to submit abstracts for presentation at the Conference. The program committee is seeking abstracts that reflect the conference theme:

'The Critical Atmosphere'

We encourage you to submit your draft abstract(s), addressing one of the conference sub-themes outlined in the abstract submission guidelines. Note that all abstracts will be considered. Further information on Call for Abstracts is available on the conference website: www.casanz2017.com

Online paper submissions are due by Friday, 24 February, 2017.

[Submit Abstracts Here](#)

[Submission Guidelines](#)

[View Abstract Template](#)

3. CASANZ Training Courses & Events

Dates	Course	Days	Location	CAQP Points*
14 February 2017	Professional Skills Workshop	.5	Melbourne, VIC	4
28 February 2017	TAPM	1	Perth, WA	5
22 & 23 May, 2017	AERMOD	2	Auckland, NZ	5

*Certified Air Quality Professional Program - Continuing Professional Development Points

Presentation Skills: 14 February, 2017

CASANZ Training is pleased to present the first workshop in a series of professional skills training events. The workshop is designed to teach participants the key principles and techniques for presenting to technical and non-technical audiences.

This half day workshop is not your usual presentation skills training; it includes practical exercises in a small group environment designed to enhance your presentation skills, not necessarily focussing on PowerPoint presentations.

The course will be presented by Tanya Makin, a passionate educator with experience working with environmental professionals.

The course brochure and registration details are available on the CASANZ website.

TAPM: 28 February, 2017

This course is aimed at air quality modellers who require TAPM for pollutant modelling or require meteorological data generation for CALPUFF, AERMOD or for locations with limited measured meteorological data.

The course will be presented by Dr Graeme Ross, who has extensive experience with TAPM based air quality impact assessment and is CSIRO's endorsed TAPM training provider in Australia and New Zealand.

Early bird Registration close on: 16 January, 2017 and Registration close on: 20 February, 2016. Visit the website to register. [Click here.](#)

AERMOD: 22 & 23 May, 2017

Registrations are now open for this computer based industry training to be held in Auckland. The course will be facilitated by Lakes Environmental and is designed to teach participants the basics of air dispersion modelling and the use of AERMOD for supporting permit applications and risk assessments.

The course program and registration details will be available on the CASANZ website shortly.

4. CASANZ Administration

Air Quality and Climate Change Journal

August/November Combined Edition

As I'm sure many of you are aware, the August issue of *Air Quality and Climate Change* has not yet come out. I apologise for this. The delay has been unavoidable because the journal has not been receiving enough submissions. Eventually, a very delayed August issue was finalised for publication, which would have been offset by the November issue promising to be a bumper special issue related to the recent Australia and New Zealand Aerosol Assembly meeting. Unfortunately, not all promised manuscripts were delivered, which meant that the special issue would not have as much content as hoped. As such, the CASANZ Executive decided to combine the August and November issues. This is not an ideal situation and has raised questions about the value of the journal to CASANZ members.

While I consider the journal to be of significant value for CASANZ and its members, its future is uncertain if submissions do not increase. I understand there are likely many reasons that submissions to the journal are declining, and as an attempt to identify how the journal can be made a more appealing option, we are preparing a survey that will be circulated to all members shortly.

The August/November combined edition is now on its way to members and should be received in the coming days.

If you have any feedback or would like further information on contributing an article, contact me: [click here.](#)

Travis Ancelet
AQCC Editor

NZ Branch Report

The NZ Branch ended 2016 with two days of activities on 3 and 4 November to coincide with the branch and society AGMs and a celebration dinner for 50 years of CASANZ. The activities kicked off with a workshop hosted by NIWA on Domestic Woodsmoke Reduction Technologies. After lunch, the NZ branch held a mini-conference, which comprised a series of short presentations on a diverse range of topics. The mini-conference was attended by around 50 people and the format and content was well-received. Many thanks to the presenters for their time and effort, Rob van de Munckhof for coordinating the event and to NIWA for allowing us to use their conference room and associated facilities. The formalities of the AGMs were followed by networking drinks and a dinner attended by about 20 branch and Executive members.

The following day, the NZ Branch hosted a full-day workshop titled 'The next generation of air quality monitoring'. The workshop focussed on 'low cost' and remote sensors and alternative air quality monitoring techniques, such as the use of drones and showcased speakers from the US, Europe, New Zealand and Australia. The NZ branch would like to particularly thank Vincent Salomon for planning and leading the workshop and, again, to NIWA for the use of their facilities.

*Jenny Simpson
NZ Branch President*

NSW/ACT Branch Report

The Ambient Air Quality Monitoring course was held in Sydney in October. The course included three days of training in meteorology, dust and gaseous ambient air quality monitoring as well as a visit to the CSIRO smog chamber. The course was facilitated by Dr Mark Bart who was joined by various other experts in the field from OEH, CSIRO and the University of Wollongong. The course was well attended with on average 10-15 people per day.

The Branch held its final technical event for the year at the OEH offices in Sydney. The event included three presentations by Dr David Cohen, Dr Mark Hibberd and Chad Whitburn on the findings of the recent Sydney Particle Characterisation, Lower Hunter Particle Characterisation and Lower Hunter dust deposition studies.

The technical presentations were followed by the Branch AGM. The AGM included a welcoming of the new committee for 2017 as well the announcements of the recipients of the Clean Air Achievement Awards and the new CAQP members.



Figure 1 - New CAQP NSW/ACT Members

*Top Left to Right - Michael Assal, Judith Cox, Paul Boulter, Gary Graham, Terry Schulz, Abhilash Aitharaju
Bottom Left to Right - Francine Manansala, Jane Barnett, Li Fitzmaurice, Varun Marwaha, Dr Carl Fung
Absent - David Rollings and Adam Plant*

The Clean Air Achievement awards included an individual award to Terry Schulz of The Odour Unit and two team awards to Dr David Cohen and team and Dr Mark Hibberd and team for their work on their recent particle characterisation studies. The AGM was followed by drinks and networking at the nearby Civic Hotel.



Figures 2 - Mark Hibberd, David Cohen and Terry Schulz receiving their Clean Air Achievement Awards.

The branch also says farewell and thank you to the committee members who won't be continuing on in the coming year. Thank you to Dennys Angove, Nick Agapides, Peter Stephenson, Gavin Stevenson, Philip Henschke and Judith Cox. The branch welcomes its newest members Khalia Monk, Jane Barnett, Michelle Yu and Upma Dutt. We look forward to working with you.

On behalf of the branch, we'd like to wish everyone a safe, happy and relaxing Christmas break. See you in 2017!

*Francine Manansala
NSW/ACT President*

WA Branch Report

The WA AGM was held on Thursday, 20 October at the Duxton Hotel. This event was very well attended with over 20 members coming along for breakfast and a chance to socialise with friends and colleagues.

This year the WA Clean Air Award was awarded to Emeritus Professor Thomas Lyons of Murdoch University. This award was presented to Tom in recognition of his distinguished career which includes:

- Impacts of land use change on weather and climate in southwest WA – where Tom was the first to investigate the suppression of convective cloud formation due to the large scale clearing of native vegetation for agriculture.
- Impacts of change in climate on woodland health.
- Editor for the Boundary-layer Meteorology Journal
- Publication of 80+ peer reviewed journal articles
- Supervision of 30+ postgraduate research students

Unfortunately Tom was not able to attend our AGM so the award was presented to Dr Jatin Kala on his behalf by Dr Owen Pitts.



Figure 3 – WA Clean Air Award presented to Dr Jatin Kala (on behalf of Dr Tom Lyons) by Dr Owen Pitts

Congratulations also to our new Certified Air Quality Professionals who were presented with their certificates at the AGM:

- James Forrest
- Lavanya Gowrisanker
- Jon Harper
- Dr Sean Lam
- David Pitt
- Miles Sowden
- Deanna Tuxford

2017 is shaping up to be an exciting year and your committee has already commenced planning a few technical sessions for our members. The first event will be held in mid-February and further details will be sent out through CASANZ early in the new year. If anyone has any suggestions for additional technical presentations please contact either myself (president.wa@casanz.org.au) or one of the WA committee members.

The WA committee hopes all our members have a safe holiday season and we look forward to seeing you all next year.

Jon Harper
WA Branch President

QLD Branch Report

The QLD Branch awarded the CASANZ Clean Air Achievement Award for 2016 to Brisbane City Council, City Planning and Sustainability Branch at the QLD AGM in October. Council received the award for making an outstanding contribution to improving the air environment. Council has shown strong commitment to clean air since it released the first Clean Air Strategy in 1996. The Clean Air Strategy is the policy document and action plan by which Council has provided strategic leadership for air quality in South East Queensland for the last 20 years, during which time there has been a steady decline in some air pollutants, such as carbon monoxide, lead and nitrogen dioxide. Mr Frank Henry accepted the award on behalf of Brisbane City Council.



Figure 4 - David Wainwright presenting new WA CAQP Members, Andrew Balch and Steven Hayes and the Clean Air Achievement Award received by Brisbane City Council

As Christmas approaches, the QLD Branch Committee would like to wish all members a safe and happy Christmas.

Natalie Shaw
QLD Branch Secretary/Treasurer

VIC/TAS Branch Report

The Victoria & Tasmania branch held its AGM on 18 October 2016 at EPA Victoria. EPA Victoria Chairman Cheryl Batagol spoke about the inquiry into EPA Victoria and the changes ahead as EPA Victoria continues on its journey towards being a science based regulator for the future environment and community.

Highlights for the year include the Biomass Smoke in the Human Environment (BISMITHE) Workshop in Deloraine in July, which was coordinated by John Innes from EPA Tasmania. The workshop was well attended with 63 participants from the community, State Regulators and various associations. CASANZ also assisted with EPA Victoria's Community Air monitoring network co-design workshops in the Latrobe Valley with CASANZ Fellows Dr Graeme Lorimer and Dr Mark Hibberd sharing their knowledge with the community.

The Victoria branch also recognised Barry Cook, Rosemary Fedele, Iain Cowan and Alison Radford as our inaugural Certified Air Quality Professionals.

The individual Werner Strauss Clean Air Medal Award was presented to Mark Hibberd for significant contributions to improving the understanding of the effects of pollutants in the air environment on health and well-being.

Dr Mark Hibberd is a Principal Research Scientist and Air Quality Team Leader at CSIRO Oceans and Atmosphere in Melbourne. He has 30 years of experience in air quality research. He has led a number of major field studies in Australia including at Port Pirie and in the Hunter Valley, and has extensive expertise in analysing and interpreting large meteorological and air quality data sets. He is the author of over two hundred journal papers, peer-reviewed reports and conference papers. He is the key author of the atmosphere chapter of Australia's latest State of Environment report to be released early next year.

Mark has provided advice to state and federal authorities, and has worked with a number of community consultative committees on air pollution issues. He was recently an advisor to the South Australian government on a transformation project for the Port Pirie Lead Smelter focused on reducing the community's exposure to

lead and sulfur pollution and is currently a member of NSW Health's Expert Advisory Committee on Air Pollution.

Mark is a fellow of the CASANZ and has significantly contributed to CASANZ for many years. He has been a member of the Vic/Tas Branch Committee for over ten years and served as past president of the Branch. He is the outgoing National President of CASANZ and was actively involved in the development of the new Certified Air Quality Professional Program. Congratulations again Mark.



Figure 5 - Werner Strauss Clean Air Achievement Award presented to Dr Mark Hibberd by Dr Jenny Strauss

Jason Choi
VIC/TAS Branch Secretary

5. News and Reports

Future Air Quality in Victoria – Final Report now available

The 'Future air quality in Victoria' project explores the likely trends in air quality between now and the year 2030. The four-year project involved a partnership between EPA and the Centre for Australian Weather and Climate Research.

The report investigates future air quality issues in Victoria, and will help manage air pollution impacts over the next few decades. For full details: [click here](#)
EPA Victoria 7 Jan 2016

Paris choked by worst winter pollution in a decade

Paris was smothered Wednesday by its worst winter pollution in a decade, with commuters enjoying free public transport and half of all cars ordered off the road to try to clear the air.

The surge in pollution has been driven by cold weather and near windless conditions that have trapped exhaust fumes, smoke from wood fires and other pollutants, according to the French capital's AirParif air monitoring service.

Although bad by Paris standards, current levels of fine airborne particles, or PM10, are around 60 percent of those in Beijing and a fraction of readings in New Delhi, the world's most polluted capital. For full details: [click here](#).
AFP 8 Dec 2016

Economic impact of bushfires in NSW, ACT to double by 2050, Climate Council report finds

The cost of bushfires to New South Wales and the ACT is likely to more than double by 2050, according to a new report from one of Australia's leading authorities on climate change. The Climate Council found bushfires currently cost both jurisdictions about \$100 million every year.

The council's chief executive officer, Amanda McKenzie, said without strong action to decrease Australia's reliance on carbon-emitting fossil fuels, that figure would only climb higher. Ms McKenzie said severe bushfires were again forecast for the coming summer in NSW and the ACT, and that in general terms, the fire season was lengthening into spring and autumn. For full details: [click here](#).

To view the Climate Change and the NSW/ACT Bushfire Threat Update 2016 Report, [click here](#).
ABC News 8 Dec 2016

Delivering strong environmental outcomes through better practice regulation

The Department of the Environment and Energy administers a diverse range of legislation to protect the environment, support sustainable development, give effect to obligations under international conventions and treaties, and implement specific national priorities. Many of these responsibilities are supported by regulation, which sets requirements to guide the activities of businesses and individuals.

In October 2015 the Department of Environment and Energy engaged Mr Joe Woodward, a highly regarded Australian environmental regulator, to undertake an independent assessment of the Department's regulatory maturity (the Regulatory Maturity Project). Mr Woodward consulted with a range of organisations and sectors. Participants contributed their user experiences, tested assumptions, and helped to ensure that the review accurately identified areas where the Department can improve its regulatory performance.

In the interests of transparency and open communication, the Department has published the Final Report of the Regulatory Maturity Project. Sitting alongside the report is a formal response which sets out the activities which are planned and underway to improve our regulatory maturity and contribute to the Department's continuous improvement agenda. The report and the Department's response are available online at: <http://www.environment.gov.au/news/2016/11/21/delivering-strong-environmental-outcomes-through-better-practice-regulation>

The Department will continue to implement a range of activities and will be consulting as required. For example, they are mapping the roles in the organisation and articulating required skills and knowledge, developing a regulatory communications strategy, and working to better define and measure success. They are also developing a regulatory framework to guide the Department's activities. This framework will be developed collaboratively and tested with regulated entities to ensure it is fit-for-purpose and meets the needs of stakeholders. Further information on consultation opportunities will be provided early in the new year.

In the meantime, if you have any questions or ideas about the report, the response or activities being undertaken, please send them to regulatory.capability@environment.gov.au.

6. Calendar of Environmental Events for 2016/2017

AMOS/MSNZ Conference and ANZ Climate Forum 2017	7 - 10 Feb, 2017	Canberra ACT Australia	Click here
International Conference on Climate Change 2017 (ICCC 2017)	16-17 Feb, 2017	Colombo Sri Lanka	Click here
ECOLOGY '17 / International Conference on Ecology, Ecosystems and Climate Change	17-18 Feb, 2017	Istanbul	Click here
Smart City Summit & Expo 2017	21-25 Mar, 2017	Nangag, Taiwan	Click here
4th International conference Smart and Healthy Transport in cities	14-15 Apr, 2017	Plzeň, Czech republic	Click here
The European Conference on Sustainability, Energy & the Environment 2017 (ECSEE2017)	6-9 July, 2017	Brighton, UK	Click here
5th Annual Sustainable Development Conference	13-15 July, 2017	Bangkok, Thailand	Click here
CASANZ 23 rd International Clean Air and Environment Conference	15-18 Oct, 2017	Brisbane QLDAustralia	Click here