



Consulting Air pollution Modelling & Meteorology

Dr Ross is Managing Director of Consulting Air pollution Modelling & Meteorology (CAMM) – Graeme Ross & Associates Pty Ltd, established after he left Monash University in 2000. He was a Professor and Foundation Director of the Centre for Applied Mathematical Modelling at Monash.

He is regarded as one of Australia's leading experts in the development and application of regulatory air quality models, with almost 40 years of experience in research, consulting and training, both locally and overseas. His involvement in these areas (summarised below) has led to the betterment of modelling practices across Australia and has thereby reduced uncertainties in the assessment of environmental/air quality impacts of developments.

Dr Graeme Ross – Biography – Air Quality Modelling & Training

Air Quality Model Development

- Played a major role in proposing to Victorian EPA (EPAV) that Australia's first regulatory air quality model be developed. This resulted in the Centre for Applied Mathematical Modelling (CAMM) developing the first initial version of the AUSPLUME regulatory model under contract to EPAV.
- As Director of CAMM, had oversight and active involvement in the initial and all further developments and upgrades of AUSPLUME (the de-facto regulatory impact assessment model for Australia and New Zealand).
- Developed the CIT modelling system (NUATMOS + CIT Puff).
- Actively involved in the Latrobe Valley Airshed Study (LVAAS) and obtained several National Energy Research Development & Demonstration Program (NERDDP grants to support this involvement.
- Organised and obtained NERDDP funding for a major Workshop on Air Quality Modelling with US-expert Dr Doug Fox as the major presenter.
- Part of the design team for the development of AUSPUFF.

- Actively involved in model development in USA:
 - Development, implementation and application of CIT/TAPAS system for US Forest Service under a series of Co-operative Agreements.
 - Development and implementation of NUATMOS into the emergency response system for the Rocky Flats Nuclear facility in Denver, Colorado (under contract to US Department of Energy).
- Actively involved in tailored model development for projects in Australia and overseas.
- Played a major role proposing and developing AUSROADS – Australia’s first model for assessing near-road traffic emission impacts.
- Reviewed the status and future role of AUSPLUME for EPAV and recommended the adoption of the US-regulatory model AERMOD as the current Victorian regulatory model.

Air Quality Modelling – Application

- Has extensive experience, both locally and overseas, in carrying out regulatory air impact assessments for major projects – see full CV listing current or recently completed projects of relevance.

Training Activities

- Conducted the majority of AUSPLUME training courses for CASANZ in most States of Australia and in NZ.
- Developed a Workbook for use in the AUSPLUME courses for CASANZ.
- Conducted TAPM training courses (in conjunction with CASANZ) as CSIRO’s only endorsed provider for Australia and New Zealand.
- Provided in-house training courses on air modelling for EPAV and SAEPA.
- Developed and presented academic units and courses (undergraduate and postgraduate) of relevance to air modelling and atmospheric science at CIT/Chisholm IT and Monash University.
- Developed and conducted various training course of relevance for overseas organizations (e.g. AUSAID funded project in India and a specialised TAPM training course for MDD in Malaysia).

General

- Chair and Deputy Chair of the Modelling Special Interest Group (ModSIG) for CASANZ for a significant period – including the organization of Workshops and CASANZ responses to issues of relevance.
- External member of various EPAV advisory committees –e.g. on the proposed development of a ‘Protocol for Air Quality Modelling’.
- External reviewer of various projects for EPAV.
- Independent Panel Member, Planning and Environment Act and The Environment Effect Act (Victoria) for a period including as panel member (air expert) for proposed Coode Island re-location to Pt Wilson.
- Was awarded the Werner Strauss Clean Air Achievement Award (CASANZ) in 2012.