

Conference Program

Workshops – Sunday 30 August 2024

08:00	Workshop & Pre-Conference Registration		
	Ballroom 1	Ballroom 2	Marina Room
09:00-12:30	Odour Management in Practice A practical full-day workshop exploring how odour is assessed, interpreted, regulated and managed in real-world settings.	The Future of Dust Management: Where do we go from here? A practical, interactive workshop for air quality professionals who want to help shape the next phase of dust management practice and the new CASANZ Dust SIG.	
12:30-13:30	Lunch		
13:30-17:00	Odour Management in Practice	Fire, Smoke & Community Wellbeing A practical, discussion-based workshop exploring how smoke exposure is estimated, interpreted and communicated, and how exposure science can support better decisions across policy, regulation, public health and community response.	Shaping the Future of Air Measurement for PFAS and Emerging Contaminants A half-day technical workshop bringing together field, laboratory, regulatory, research and accreditation perspectives on what it takes to measure PFAS and other emerging contaminants in air with confidence.

17:30-19:00	Welcome Reception in the Exhibition Hall Dress code: Smart Casual Welcome to Cairns Councillor Trevor Tim Sponsor Welcome Eva and Associates		
			

Day 1 – Monday 31 August 2024

Time	Clean Air	Odour
07.30	Conference registration	
	Ballroom Plenary session 1 Session Chair: Gerda Kuschel Jeff Bluett	
08.30-08.35	Welcome to Country	
08.35-08.45	Welcome & housekeeping MC: Gerda Kuschel Jeff Bluett	
08.45-08.50	Welcome to the 2026 Clean Air Conference Society President, Francine Manansala	
08.50-08.55	Welcome to the 2026 Asia Pacific Odour Conference Scientific Conference Committee Co-Chairs Michael Assal and Michael Asimakis	
08.55-09.00	Platinum Sponsor Welcome Thomson Environmental Systems	
09.00-09.45	Keynote Speaker 1: Dr Andrea Hinwood United Nations Environment Programme 21st Century Air Quality: Global Progress and Challenges	
09.45-10.30	Keynote Speaker 2: Dr Rosemary Barnes Founder and Director of Pardalote Consulting AI and the Atmosphere: Powering Progress Without Polluting the Future	
10.30-11.00	Morning tea	

11.00-13.00	CONCURRENT SESSION 1				
	Marlin Room 2&3 Future Air Monitoring Systems Session Chair: Grant Kassell	Marlin Room 1 Climate Accountability and Fugitive Emissions Session Chair: Ruby Kan	Lagoon Room Air Quality, Exposure and Human Health Session Chair: Richard Chilton	Ballroom 1 Monitoring, Measurement & Analytics Session Chair: Richard Stuetz	Ballroom 2 Sewer Networks, H₂S & Catchment Management Session Chair: Geordie Galvin
11.00-11.20	66 - 75 years of air quality monitoring in NSW Matthew Riley	34 - Baseline Integrity in Climate-Related Disclosures Abhilash Aitharaju	33 - Lead in Ambient Air Varun Marwaha	44 - Continuous monitoring of low-concentration odors Edurne Ibarrola-Ulzurrun	11 - Catchment Wide Septicity Modelling Tingting Zhang and Sabrina Woon
11.20-11.40	152 - Review of the development of low-cost sensors: identifying appropriate use-case scenarios Leigh Crilley	84 - Review of techniques for fugitive methane measurement Jane Barnett	53 - Oxidative Potential as a complementary air quality metric Dylan Vernal	16 - Odour fingerprinting using indicative monitors and surveys Mitchell Aafjes	29 - Sealed WA Sewer Networks Robie Mangubat and Katherine Cochrane
11.40-12.00	109 - Evaluating the performance of low-cost sensors against regulatory-grade equipment for particulate matter Angus Rawle	92 - Mitigation of greenhouse gas emissions in the NSW coal mining sector Francine Manansala	54 - Characterising children's air pollution exposure in Melbourne Shanon Lim	265 - Going past the threshold requires nerve James Hayes	49 - Hunter Water Digital Twin Dominic Gibbs
12.00-12.20	87 - Correcting Low-Cost Particulate Matter Sensors for Real-World Conditions Ethan Edwards	102 - Greenhouse Gas Regulations implementation in New Zealand Tara Potts	95 - Wood Heater Emissions Inventory and Population Exposure Assessment across NSW Siva Praveen Puppala	172 - Development of a novel air sampling system for ambient VOC monitoring Lu Lu	35 - SPS Odour & Corrosion Risk Screening Gary Finke
12.20-12.40	37 - Evaluating a Low-Cost Heated-Inlet PM ₁₀ Sensor Across Diverse Global Collocation Sites David Lu	103 - GHG Estimates for Vegetation Clearing in Australia and NZ Kirsten Lawrence	201 - Multi-Seasonal Chemistry and High Time Resolution Source Apportionment of Particulate Pollution Emily Franklin	266 - Transforming complaints into resources in the waste recovery sector James Hayes	77 - Estimating Odour and H ₂ S Emissions Zac Heironymus
12.40-13.00	28 - Scaling Low Cost Ambient Air Quality Monitoring Peter Runcie		143 - Creating a National Health and Air Quality Strategy Sharon Campbell		17 - Chemical Blends for Odour Control at Elanora STP Ari Shammay and Sharo Yap

13.00-14.00	Lunch - POSTER PRESENTATIONS
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14.00-16.00	CONCURRENT SESSION 2			
	Marlin Room 2&3 Smoke, Dust and Particulate Source Response Session Chair: Jane Barnett	Marlin Room 1 Advanced Monitoring, Remote Sensing and AI Systems Session Chair: Hamesh Patel	Lagoon Room Greenhouse Gases, Climate Transition and Future Air Quality Session Chair: Cathy Nieuwenhuijsen	Ballroom 1 Dispersion Modelling, Impact Assessment & Planning Session Chair: Chris Bydder
14.00-14.20	25 - Whose smoke is it anyway? Ian Longley	97 - Machine Learning Source Apportionment Anushka Elangasinghe	22 - EDGAR greenhouse gas emission validation using ground and remote	78 - Bridging Dispersion Modelling and Field

			sensing measurements Hiep Duc Nguyen	Odour Observations Patricia Thorpe
14.20-14.40	80 - Forecasting and managing smoke impacts during Victorian Bushfires Jason Choi	110 - Machine learning for estimating wood heater use Masrur Ahmed	112 - Air quality and climate change in the energy transition Matt Davies	38 - Field-Validated Odour Dispersion Model Calibration Andrew Balch
14.40-15.00	141 - No dust without fire? Stuart Inglis	27 - Atmospheric LIDAR Cloud Calibration Matthew Pickett	124 - Hydrogen fuel impacts using WRF-Chem modelling Merched Azzi	164 - Establishing Odour Emissions as a Land Right Aleks Todoroski
15.00-15.20	106 - Trigger Action Response Plans for mining operations Russ Francis	91 - Aerosol transport above NSW using Micro Pulse Lidar Hiep Duc Nguyen	156 - Influence of projected climate signals on meteorological datasets Madeleine Behn	153 - From Modelling to Mitigation: Closing the Gap Andrew Balch and Prasha Vijayalayan
15.20-15.40	142 - Dust Source Attribution on the Le Fevre Peninsula Mohammad Iqbal	132 - Agentic optimisation of WRF Danny Craggs	133 - Measuring and modelling greenhouse gas emissions in the upper hunter valley of NSW Ronan Kellaghan	40 - The 90th or 98th Percentile? Carlos Díaz
15.40-16.00	86 - Wind erosion potential over surfaces Damon Roddis		81 - Spatially resolved greenhouse gas emissions inventory for Victoria Jason Choi	43 - Background Odour Assessment in Biogas Projects Carlos Díaz

16.00-16.25	Afternoon tea
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	Ballroom Plenary session 2 Session Chair: Gerda Kuschel Jeff Bluett
16.25-16.55	UNEP Panel Session: Dr Andrea Hinwood, Dr Sheila Argawaal Khan & Dr. Sumit Sharma Global Air Pollution and Solutions – Addressing sectors, finance and regional perspectives Moderator: Dr Andrea Hinwood United Nations Environment Programme Panel members: Dr Sheila Argawaal Khan Director Industry and Economy Division UNEP Dr. Sumit Sharma Programme Officer, UNEP India office
16.55-17.00	Day 1 Close MC: Gerda Kuschel Jeff Bluett
17.00-17.30	Society Annual General Meeting

Day 2 – Tuesday 1 September

Time	Clean Air	Odour
07.45	Conference registration	
	Marlin Room Clean Air Plenary Session Chair: Gerda Kuschel Jeff Bluett	Ballroom 1 EAQP SIG and Odour SIG panel Session Chair: Michael Asimakis & Michael Assal
08.30-08.40	Welcome MC: Gerda Kuschel Jeff Bluett	The journey of an odour professional
08.40-09.20	Keynote Speaker 4: Dr Emma Knowland NASA Earth's Atmosphere Through Multiple Lenses: NASA's Integrated Approach to Air Quality Research and Observation	Moderators: Michael Assal The Odour Unit Michael Asimakis GHD
09.20-10.00	Keynote Speaker 5: Dr Vera Samburova Associate Research Professor, Desert Research Institute	Panellists: Abbie Brooke Brisbane City Council

Time	Clean Air	Odour
	Breathing Through Fire: Air Quality Challenges in a Warming World	Ruth Fisher University Of New South Wales Aleks Todoroski Todoroski Air Sciences Gary Finke Clean TeQ Aromatrix
10.00-10.10	MC Awards MC: Gerda Kuschel Jeff Bluett	

10.10-10.40	Morning tea
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10.40-12.40	CONCURRENT SESSION 3				
	Marlin Room 2&3 Regulation in Transition Session Chair: Jacinda Shen	Marlin Room 1 Applied Air Quality Practice and Operational Insight Session Chair: Iain Cowan	Lagoon Room Atmospheric Chemistry and Source Attribution Session Chair: Cathy Nieuwenhuijsen	Ballroom 2 Air Dispersion Modelling Forum	Ballroom 1 Odour Control Technologies & Performance Session Chair: Robie Mangubat
10.40-11.00	45 - Practicability of air emission mitigation measures Jason Pene	58 - Extracting Gold Out of Compliance Monitoring Data Jeff Bluett	104 - Source Signatures for Agricultural Emissions Cherie Tollemache	Air Dispersion Modelling for the Future	7 - Practical Odour Control Solutions Dinesh Asokan
11.00-11.20	52 - Adoption of 2021 AAQ NEPM standards Mitchell Ryan	55 - Deposition of Metals into Creek Catchments Andrew Martin	134 - SEM-EDS Single Particle Characterisation Daniel Lynch		14 - Temporary Odour Control Project Lifecycle Lessons Sabrina Woon & Matthew Lakey
11.20-11.40	122 - NSW Approved Methods 2026 Justine Firth	47 - Source and receptor heights in steep terrain Hector Machado	57 - Tiny Particles, Big Impact Baiyue Li		46 - Activated Carbon Vessel Selection & Design Sean Trainor
11.40-12.00	75 - Significant air quality levels assessment framework Louise Kristensen	85 - Atmospheric Emissions Inventory for Hanoi Damon Roddis	59 - Elemental Chemistry of Marine Aerosols Robert Deas		101 - Reliable Odour Control on a Bunnings Budget Paul Sproules
12.00-12.20	90 - NZ's Implementation of WHO Air Quality Guidelines Paul Crimmins	173 - Air Monitoring During Excavation of Sydney's Tallest Building Paul Pickering	108 - Fine Particulate Nitrate Tracing at Stockton Armand Atanacio		168 - Hybrid Media Strategies John Anderson
12.20-12.40	200 - Review of the Ambient Air Quality National Environment Protection Measure Methodology Amanda Wheeler		147 - Mapping Pollution Sources Across Greater Sydney Madhura Manohar		

12.40-13.40	Lunch
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13.40-15.40	CONCURRENT SESSION 4			
	Marlin Room 2&3 Dust Management in Practice Session Chair: Grant Kassell	Marlin Room 1 Dispersion Modelling in the Real World Session Chair: Damon Roddis	Lagoon Room Transport, Mobility and Urban Emissions Session Chair: Jacinda Shen	Ballroom 1 Community, Compliance & Regulatory Frameworks Session Chair: Ruth Fisher
13.40-14.00	10 - Engineering Hierarchy of Controls for Dust Management	72 - Comparison of AERMOD and CALPUFF Performance Iain Cowan	71 - Victoria's Motor Vehicle Emissions	73 - Landfill Odour Field Surveillance Chris Bydder

	Judith Cox		Inventory 2023 Steven Utembe	
14.00-14.20	48 - Improving Consistency in New Zealand Dust Assessments Richard Chilton	74 - Unrealistic Concentration Spikes During GRAL Modelling Fergus Robertson	88 - High-speed rail in Australia: will it reduce greenhouse gas emissions? Paul Boulter	94 - Independent Performance Assessments Paul Sproules
14.20-14.40	12 - Ecological Dust Management Framework for Construction Projects Sophie Materia	125 - Should Dispersion Models Stop Pretending Buildings Don't Exist? David Rollings	96 - Local air pollution near the West Gate Tunnel Paul Torre	140 - Body Odour Control and Healthy Buildings Ben Gill
14.40-15.00	116 - Dust monitoring to validate mitigation James Forrest	127 - Comparison of measured and modelled boundary layer heights Handan Sariyonca	119 - Development of a chassis dynamometer testing facility Nic Surawski	158 - First E&T&C Certificate: Real Case Study Carlos Díaz
15.00-15.20	130 - Drone-Based Spatial Mapping of Fugitive Dust Emissions Ruth Peiffer	148 - Every Puff Tells a Story Francoise Robe	136 - Traffic Management Interventions in Cities Hamesh Patel	
15.20-15.40	169 - Improving OPC Dust Monitoring in Construction Environments Michael Darroch & Aryan Sharma		176 - Shipping contributions to SO ₂ in Singapore before and after IMO 2020: a coupled CALMET-CWT assessment Sam Putland	

15.40-16.10	Afternoon tea
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	Ballroom Plenary session 3 Session Chair: Vicki Callaway
16.10-17.35	Panel Session: 60 Years of CASANZ - Fireside chat and Awards Moderator: Vicki Callaway CASANZ

19.00-23.30	Conference Dinner Venue: Hemingway's Brewery Wharf St, Cairns City Dress code: Tropical / Under the Sea	
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Day 3 – Wednesday 2 September

Time	Clean Air	Odour
08.30	Conference registration	
	Ballroom Plenary session 4 Session Chair: Gerda Kuschel Jeff Bluett	
08.50-08.55	Welcome MC: Gerda Kuschel Jeff Bluett	
08.55-09.15	Keynote Speaker 5: His Honour Judge Dean P. Morzone KC Planning and Environment Court of Queensland AI: An Expert's Master or Servant in the 21st Century?	
09.15-09.35	Keynote Speaker 6: President Stilgoe OAM Land Court of Queensland The Air We Share: Mining, Emissions, and Human Rights at Stake	
09.45-10.05	CONCURRENT SESSION 5	



	Marlin Room 2&3 Community Monitoring and Citizen Science Session Chair: Rebecca Wilson	Marlin Room 1 Monitoring Performance and Data Interpretation Session Chair: Hamesh Patel	Lagoon Room Data Centres, Infrastructure and Emissions Assessment Session Chair: Dylan Vernal	Ballroom Emerging Research & Future Directions Session Chair: Geordie Galvin
09.45-10.00	18 - Rotorua's air quality journey Marion Henton	62 - OPX 1025 optical particulate monitor Grant Kassell	163 - Off-grid data centre Aleks Todoroski	126 - Temperature Effects on Odour Emissions from Artificial Turf Ruth Fisher
10.00-10.15	19 - OPENAIR council-led air quality sensing Andrew Tovey	118 - PM10 sensor co-location study Steven Torr & Jhonny Uparela	170 - Uncertainties in data centre diesel generator operations Kate Barker	121 - Flammability Monitoring and Impacts on Odour Control Units Ari Shammay and Shaun Kenny
10.15-10.30	30 - Traffic emissions and urban air quality sensor networks Vinicius De Carvalho Soares De Paula	138 - Monitoring Data for Source Apportionment Martin Parsons & Sam Joyner	145 - Real-time monitoring of airborne gaseous and particulate contaminants at a chicken processing facility Samarpit Garg	145 - Real-time monitoring of airborne gaseous and particulate contaminants at a chicken processing facility Samarpit Garg

10.30-11.00	Morning tea
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11.00-13.00	CONCURRENT SESSION 6			
	Marlin Room 2&3 Industry perspectives in managing air quality – corporate and community Session Chair: Jenny Simpson	Lagoon Room Monitoring Networks, Methods and Analytical Systems Session Chair: Rebecca Wilson	Ballroom Clean, Fresh... and Healthy?	
11.00-11.20	Industry speaker 1: Matt Davies Air Earth Environment "What good looks like" for industry in managing air quality and carbon emissions	8 - Standardized Ultra-Fine Particle Measurements Pooja Chaudhary	Clean, Fresh... and Healthy? Perception, Odour and Indoor Air Quality	
11.20-11.40	Industry speaker 2: Matthew Meere Principal Air Quality and Climate Strategy	65 - Radon measurements in the NSW monitoring network Matthew Riley		
11.40-12.00	Industry speaker 3: Elaine Glen Port of Townsville Air Monitoring at the Port of Townsville	100 - Real-Time Technologies for Respirable Crystalline Silica Cameron Brown		
12.00-12.20	Industry speaker 4: Julia Rahman & Xioasheng (Alex) Qian BHP Air Quality Outcomes Through Integrated Dust Management	139 - Characteristics and Trends of UFPs in Australia and NZ Hamesh Patel		
12.20-12.40	Industry perspectives in managing air quality – corporate and community - Panel Session:	149 - Monitoring Methods for PM and RCS in Quarries Pushan Shah		
12.40-13.00	Moderator: Jenny Simpson Panel members: Matt Davies Air Earth Environment Matthew Meere Principal Air Quality and Climate Strategy			

	Elaine Glen Port of Townsville Julia Rahman BHP		
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13.00-14.00	Lunch
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14.00-16.00	CONCURRENT SESSION 7			
	Marlin Room 2&3 Planning, Policy and Future Standards Session Chair: Matthew Pickett	Marlin Room 1 Indoor Air, Exposure and Built Environment Health Session Chair: Shanon Lim	Lagoon Room Industrial Emissions and Particle Forensics Session Chair: Sophie Materia	Ballroom Industry Case Studies & Operational Practice Session Chair: Ari Shammay
14.00-14.20	15 - Roadside PM2.5 and NO2 monitoring Mitchell Aafjes	6 - Clean Air and Climate Resilience – Filtration Mitigation Philipp Schluter	68 - Dual-Mode Microscopy for Environmental Dust Particles Joe Perkins	31 - Belconnen Trunk Sewer Case Study Andrew Fleming
14.20-14.40	105 - Maritime Sulfur Regulation Trade-offs Jing Kong	24 - Sensor-driven classroom air quality dashboard Ian Longley	69 - Respirable Crystalline Silica Near Coal Seam Gas Operations Joe Perkins	36 - Catalytic Iron Filters Gary Finke
14.40-15.00	274 - Building the Case for National Capability for Black Carbon and Ultrafine Particle Monitoring Melita Keywood	160 - Workplace and Ambient Air Quality Criteria Dylan Turnbull	82 - Particle Forensics in the Mount Maunganui Airshed Cherie Tollemache	51 - Landfill Odour Following High Rainfall Andrew Martin
15.00-15.20	155 - Ecological Air Quality Standards Kristen Clarke	135 - Indoor Air Quality and Human Health: From Lungs to Brain Bronwyn King	137 - Determination of Microplastics in Industrial Environments Hamesh Patel	89 - High pH and Industrial Waste Sludges Chris Hewlett
15.20-15.40	177 - New method for specifying in-stack concentration limits Alison Radford	309 - Accelerating the Pathway to Clean Indoor Air Through Implementation Research Emma Pakula	161 - Nano- and microplastic particle dispersion modelling Cameron McNaughton	146 - Biosolids Soil Application Emissions Thais Guerrero
15.40-16.00	107 - Passenger exposure study on the rail network Russ Francis	308 - Beyond portable filtration Loukas Tsigaras	115 - Is opacity monitoring still relevant? Emily Mace	60 - Living in our Cities Without Restaurant Cooking Odours Abbie Brooke
	Ballroom Plenary session 5 Session Chair: Jacinda Shen Rebecca Wilson			
16.05-16.30	Closing panel: Beyond 60 years: what comes next? Moderators: Jacinda Shen VIDA Rebecca Wilson GHD			
16.30-16.45	Day 3 Close MC: Gerda Kuschel Jeff Bluett			

16.45-17.15	Closing refreshments
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