

WORKSHOP PROGRAM – Day 1

Sunday 25th August 2024

Time	Title	Location
08.00 – 08.30	Conference Registration	Mezzanine Foyer
08.30 – 08.40	Welcome & Housekeeping MC: Michael Assal	Ballroom 3
08.40 – 09.40	International modelling handbook. The relevance of modelling in Australia/New Zealand for odour assessments. Jenny Barclay	Ballroom 3
09.40 – 10.20	Olfactometry in Europe and America. How does it differ, and are there any drivers for change in Australia/New Zealand? (Virtual) Michael McGinley	Ballroom 3
10.20 - 10.40	Morning Tea	Mezzanine Foyer
10.40 - 12.40	Field odour measurements in Europe – An overview of the latest state of knowledge regarding the distributed network for odour sensing empowerment. Relevance to Australian and New Zealand practices. Carlos Diaz	Ballroom 3
12.40 – 13.20	Lunch	Mezzanine Foyer
13.20 – 15.00	Odour Regulators Panel Discussion A workshop into a hypothetical scenario for an approval process of a new or existing facility across different jurisdictions in Australia and New Zealand: What are the differences, similarities, and consequences? Moderator: Dr Ruth Fisher Facilitator: Dr James Hayes	Ballroom 3
15.00 – 15.20	Afternoon Tea	Mezzanine Foyer
15.20 – 16.00	Odour Regulators Panel Discussion (Continuation)	Ballroom 3
16.00 – 17.00	Sensory analysis: Can you tell the difference? A taste of different wine and water quality. Anthony Domanti	Ballroom 3
17.30 – 19.00	Welcome Reception Dress Code: Smart Casual Welcome to Tasmania The Right Honourable Lord Mayor of Hobart, Councillor Anna Reynolds Sponsor Welcome Wes Ford, Director and Chief Executive Officer, Environment Protection Authority, Tasmania 	Exhibition Hall



CONFERENCE PROGRAM – Day 2

Monday, 26 August 2024

Time	Title	Location
08.15 – 08.50	Conference Registration	Mezzanine Foyer
08.50 – 09.00	Welcome & Housekeeping MC: Gerda Kuschel Jeff Bluett	Plenary Room
09.00 - 09.10	Welcome to Country	Plenary Room
09.10 - 09.20	Official Conference Open Her Excellency, the Honourable Barbara Baker AC, Governor of Tasmania	Plenary Room
09.20 – 09.30	Welcome Hon. Minister Nick Duigan, Minister for Energy and Renewables, Minister for the Environment	Plenary Room
09.30 - 09.35	Welcome to the Clean Air Conference 2024 Society President, Francine Manansala	Plenary Room
09.35 – 09.40	Welcome to the 10th IWA Odours & Air Emissions Conference 2024 Michael Assal, Organising Committee Co-Chair and CASANZ Odour SIG Chair	Plenary Room
09.40 – 09.45	Platinum Sponsor Welcome - Lear Siegler	Plenary Room
09.45 – 10.15	Keynote Speaker 1: Dr Carolyn Orr Neurologist Environmental Campaigner Speaker for Doctors for the Environment The enormous benefits to human health of a greener, cleaner world where our energy is renewable and our forests are thriving	Plenary Room
10.15 – 10.45	Keynote Speaker 2: Matthew Riley Director Climate and Atmospheric Science, NSW Government, Department of Climate Change, Energy, the Environment and Water Integrated air quality services – blending observations, emissions, land use and modelling to deliver actionable information to the community.	Plenary Room

10.45 - 11.15	Morning Tea Exhibition Hall
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11.15 – 1.00	CONCURRENT SESSION 1	
	Theme 1 – Odour Assessment and Measurement Harbour View 1 Session Chair: Geordie Galvin	Theme 2– Odour Management in Specific Industries Harbour View 2 Session Chair: Michael Asimakis
11.15 – 11.30	74 – The impact of microbial communication on community succession and function in biological deodorization systems Prof. Can Wang, Tian Jin University	80 – The importance of accurate emission data and modelling for the proper design of odour control systems Chris Younger, Bioaction
11.30 – 11.45	28 – Methodology of key odorants selection from wastewater treatment plants based on their kinetics with hydroxy radicals Dr Eng. Radoslaw Barczak University of Warsaw, Poland	17 – Hunter Water’s odour control journey: Tips, tricks and lessons learnt Tara Pagnutti Dr Ari Shammay Hunter Water Stantec
11.45 – 12.00	52 - First Standard UNE 77270 “Building Collaborative Odour Maps through Citizen Science” Cynthia Izquierdo, Ambiente et Odora	10 – The impact of Upset Conditions on Odour at Sewage Treatment Plants Jay Shin, Stantec
12.00 – 12.15	15 – Assessing H ₂ S dispersion in urban areas; a comparative study using gaussian plume model and computational fluids dynamic Laize Nalli de Freitas, Federal University of Espirito Santo, Brazil	50 – Operational Excellence in Odour Management for Refinery and Petrochemical Complex Siti Norzamia Nadzmi Petronas, Malaysia
12.15 – 12.30	72 – Characterization of Volatile Organic Compounds in Tasmanian Engineered Wood Products Hasini Perera, University of Tasmania	71-Gas-phase biofilter reduces bioaerosol emission in real-world application Tian Lan Tsinghua University, China
12.30 – 12.45	8 – Impact of VOC Site Sampling on the Sizing of Odour Control Facilities Dr Ari Shammay, Stantec	55 – Managing odour nuisance and public complaints from a mega petrochemical complex in Southeast Asia Syarifah Noorlia binti Wan Buyjang Petronas Malaysia

12.45 – 14.00	Lunch Exhibition Hall
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14.00 – 15.30		
CONCURRENT SESSION 2		
	Theme 3 – Odour Impact Assessment and Mitigation Harbour View 1 Session Chair: Dr Ari Shammay	Theme 2 continuation Odour Management in Specific Industries Harbour View 2 Session Chair: Isaac Farrugia
14.00 - 14.15	60 – Odour control in the wastewater sector Andrew Fleming and Paul Sproules, Aquatec	26 – Hoppers Crossing pump station odour control facility Gary Finke, Clean TeQ Aromatrix Pty Ltd
14.15 – 14.30	66- Scents and Sustainability: How nuisance odours can be incorporated into Lifecycle assessment (LCA) Dr Ruth Fisher, University of NSW Sydney	13 – Learning from odour lessons at the Liverpool Ashfield Pipeline Louisa Vorreiter Ayesha Shaikh Sydney Water Stantec
14.30 – 14.45	Sniffer dogs – The remarkable olfactory potential and its promise for revolutionising drugs and medical detection. Dr James Hayes, University of NSW Sydney	Evaluation of chicken shed ventilation parameters against real world data Tara Potts, Pattle Delamore Partners
14.45 – 15.00	69 – Iona Island Wastewater Treatment Plant (IIWTP) Odour Impact Reductions Using a Phased Odour Control Strategy Jay Witherspoon AECOM, USA	70 – The good, The bad, and The beautiful - Odour management practices and challenges at one of the largest waste management facilities in Australia Dr Fangzhou Du, Veolia Environmental Services
		Theme 7 – Emerging Technologies in Odour Science and Engineering
15.00 – 15.15	34 - Advancing livestock emission monitoring: Continuous measurement of ammonia from barns using compact laser diode spectroscopy detectors Preben Van Overmeiren, OLFASCAN	25 - Innovative chemical dose control for odour management through continuous sulphide monitoring Sean Paul TasWater
15.15 - 15.30		57 – Enhancing odour management with a Machine Learning Model for Effluent Treatment Plant in Mega Petrochemical Complex Nor Azman Bin Zakaria Petronas, Malaysia
15.30– 16.00	Afternoon Tea Exhibition Hall	
16.00 – 17.00 Harbour View 1	Workshop - Odour Regulators Panel Discussion continuation Moderator: James Hayes Facilitator: Carlos Diaz International Perspective – Odour Regulatory Frameworks in regard to Australia and New Zealand.	

CONFERENCE PROGRAM – Day 3

Tuesday, 27 August 2024

Time	Title	Location
08.30 - 08.55	Conference Registration	Mezzanine Foyer
08.55 - 09.00	Welcome & Housekeeping	Harbour View 1

09.00 – 10.30	CONCURRENT SESSION 3	
	Theme 4 – Community Odour Perception and Sensory Evaluation Harbour View 1 Session Chair: Chris Bydder	Theme 5 – Odour Dispersion Modelling and Simulation Harbour View 2 Session Chair: James Hayes
09.00 – 09.15	4 – Evaluation and follow up of Odour Complaints Carmelia-Eliza Telteu - Olfasense GmbH	11 – How tall is tall enough? An investigation into passive sewer vent shafts Rory O'Shea, Stantec
09.15 – 09.30	33 -Towards a standardized sensory analysis methodology by direct sensory evaluation Preben Van Overmeiren OLFASCAN, Belgium	19 – A holistic approach to Odour Control: A Case Study from Bunbury, WA Katherine Cochrane, Water Corporation
09.30 – 09.45	35 – Applying cluster analysis to explore communities perception of odour nuisance Prof Bruno Furieri University Federal of Espirito Santo, Brazil	20 – Dynamic modelling of odour risk in sealed sewer systems using digital twins: Analysis at seven catchments Chaim Kolominskas, Envirosuite
09.45 – 10.00	41 – Annoyance and Odour Perception in an Industrialized Urban Environment in Brazil Franciele Ribeiro Cavalcante University Federal of Espirito Santa, Brazil	27 – Using Data Driven Modelling to Systematically Assess Wastewater Conveyance Network Odour and Hazardous Gases Risk Philip Meng, Water Corporation
10.00 – 10.15	51 - E&T&C Certification: A New Way to Grade Engagement Transparency, and Communication in Industry – “When Just the Odour Unit won't Cut It!” Carlos Diaz Ambiente et Odora, Spain	46 – Recommendations to modify peak to mean ratios for odorous point sources in QLD and NSW which are dependent on building wake effects Jennifer Barclay, ASG Atmospheric Science Global
10.15 – 10.30	79 – Regulation of acute chronic odour exposures in New Zealand Roger Cudmore	53 – A Breath of Fresh Air in Odour Forecasting. The case of composting plant Carlos Diaz Ambiente et Odora, Spain

10.30 – 11.00	Morning Tea Exhibition Hall
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11.00 – 12.45	CONCURRENT SESSION 4	
	Theme 1 – Odour Assessment and Measurement Harbour View 1 Session Chair: Prashanthini Vijayalayan	Theme 5 – Odour Dispersion Modelling and Simulation Harbour View 2 Session Chair: Jay Whitherspoon
11.00 – 11.15	77 – Establishing odour hour frequency from limited data produced via field surveying of ambient odour Roger Cudmore	54 - Influence of terrain roughness on the simulated impact area of odorant emission from stabilisation ponds Ademir Prata Federal University of Alagoas, Brazil
11.15 – 11.30	81 – Importance of accurate emission input data for real-time and predictive odour dispersion modelling results Carmelia-Eliza Telteu, Olfasense GmbH	62 – Examination of AERMOD's new area source meander scheme Jennifer Barclay, Atmospheric Science Global ASG
11.30 – 11.45	61 - Odour challenges in anaerobic co-digestion: sensory investigation into substrate feeds impact on biosolids emissions Thais Nunes Guerrero, University of NSW Sydney	16 – Emission assessment for wastewater treatment plants: integrating mathematical modelling and flux hood laboratory experiments with field data Dr Bruno Furieri Companhia Espirito – santense de Saneamento, Brazil
11.45 – 12.00	23 – Chemical Dosing Sulphide Control and Ph Dynamics in Sewer Networks Hasan Shahariar, Trinity Consultants	



11.00 – 12.45		
CONCURRENT SESSION 4 continuation		
	Theme 1 – Odour Assessment and Measurement Harbour View 1 <i>Session Chair: Prashanthini Vijayalayan</i>	Theme 6 – Odour Abatement and Control Strategies Harbour View 2 <i>Session Chair: Jay Whitherspoon</i>
12.00 – 12.15	48 – How the design of sampling devices influences emissions measurement – what are we really using? Lisha Liu, University of NSW Sydney	9 – Abnormal contaminants in sewer foul air and their impact on odour control Dr Ari Shamma, Stantec
12.15 – 12.30	59 – Development of odour intensity reference solutions using four odorous chemicals for environmental odour evaluation Prof Takaya Higuchi, Yamaguchi University	42 – Simultaneous removal of Ammonia sulfur odorants in biotrickling filters and N2O production Dezhaoi Liu, Zhejiang University, China
12.30 – 12.45	56 – Trials and tribulations of quantifying and assessing odour impacts of asphalt plants Judith Cox, SLR Consulting	3 – Innovations and improvements in odour impact from Porirua WWTP, Wellington NZ Dr Ari Shamma, Stantec
12.45 – 14.00		
Lunch & Poster Session: Authors Present Exhibition Hall		
13.15 – 13.45		
Technical Session: Lear Siegler		Grand Ballroom 1
14.00 – 15.00		
CONCURRENT SESSION 5		
	Theme 4 – Community Odour Perception and Sensory Evaluation Harbour View 1 <i>Session Chair: Melissa Gilbert</i>	Theme 6 cont - Odour Abatement and Control Strategies Harbour View 2 <i>Session Chair: Colin van Rooyen</i>
14.00 – 14.15	58 – Complaint management in the context of malodour in Australia Dr James Hayes, University of NSW Sydney	43 – Packing modification and surfactant for better removal of sulfurous compounds in biotrickling filters Dezhaoi Liu, Zhejiang University, China
14.15 – 14.30	37 – Building collaborative odour maps through citizen science: the Barcelona case study of D-NOSES Carlos Diaz Ambiente et Odora in Bilbao, Spain	24 – Sewer odour reduction through odour neutralising misting system Peter Smith, Urban Utilities
14.30 – 14.45	67 – Calibrating Dispersion Modelling with Field Odour Surveys to Determine Impact of Broiler Farms Michael Asimakis, GHD	36 – Odour removal by high speed biofilter at the pilot-scale in wastewater treatment plant headworks operations Manuel Alejandro Hernandez Shek, SUEZ
14.45 – 15.00	Publication 1883 Workshop – Two years down the track, where are we now? Chris Bydder, EPA Victoria	
15.00 – 17.00		
PLENARY SESSION		
15.00 – 15.20	Odour Threshold Determination: Assessor Selection through Multiple Reference Odorants (recorded) Michael McGinley St. Croix Sensory, USA	Harbour View 1
15.20 – 15.40	Integrated approach to assess odour impact in communities: emission inventory, dispersion modelling and community perception and annoyance Dr Bruno Furieri Federal University of Espirito Santo, Brazil	Harbour View 1
15.40 – 16.00		
Afternoon Tea Exhibition Hall		
16.00 – 17.00		
Facilitated Networking and Interaction Session Incorporating Conference Overview and Closing Discussion		Harbour View 1
18.30 – 23.30		
Gala Dinner & Awards Evening <i>Details on the next page.</i>		



18.30 – 23.30	<p>GALA DINNER & AWARDS EVENING</p> <p>Venue: Wrest Point Casino Tasman Room 410 Sandy Bay, Sandy Bay</p> <p>Transport to the venue via Ferry First boarding time: 18.30 pm Second boarding time: 18.45pm Brook Street Pier, 550m from the Hobart Grand Chancellor Hotel Directions: Refer to the map in the Conference App, located under Documents</p> <p>Return transport to the Hobart Grand Chancellor via Bus Buses departing from 10.00pm and then at 20-minute intervals Meeting point: Wellington Entrance of the Casino</p> <p>Dress code: Dress to Impress</p>
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POSTERS

Poster Session: Tuesday, 27 August 2024 | from 1.00pm

	Title	Author
1	Mitigation of odours and volatile organic compounds by a pilot-scale biowindow at a sanitary landfill, Republic of Korea	Prof. Kyung-Suk Cho, Ewha Woman’s University
2	Wet and dry removal methods of sulfurous odour using advanced oxidants	Prof. Hee Wook Ryu, Soongsil University
3	Odour in composting	Nikita Paul, GHD
4	Variations in odour concentrations using IFC and downwind transect method	Evan Smith, GHD
5	A comparative analysis of air quality changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022.	Midhun Gopakumar Central University of Rajasthan



SITE TOUR

Wednesday, 28 August 2024

- 8.30am – Pick up Hotel Grand Chancellor
- 8.50am – Arrive Skretting – tour
- 10.20am – Depart
- 11.00am – Arrive Blackmans Bay Water Treatment Plant – tour
- 12.30pm – Depart
- 1.45pm – Arrive Bruny Island Cheese Company for lunch
- 3.00pm – Depart
- 4.15pm – Arrive Hotel Grand Chancellor

Full details available via the [website](#).

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Welcome Drinks



Pre Gala Drinks Ferry