

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



SUNDAY, 25 AUGUST 2024

ODOUR

8.00-8.30 **Conference Registration**
Mezzanine Foyer, Hotel Grand Chancellor

Workshop

Harbour View 1

9.00-10.30	International modelling handbook (Jennifer Barclay). The relevance of modelling in Australia/New Zealand for odour assessments. Presenter: Jenny Barclay
10.30-11.30	Olfactometry in Europe and America. How does it differ and are there any drivers for change in Australia/New Zealand? Presenter: Michael McGinley
11.30-12.30	Field odour measurements in Europe – An overview on the latest state of knowledge regarding the distributed network for odour sensing empowerment. Relevance to Australian and New Zealand practices. Presenter: Carlos Diaz

12.30-1.30 **Lunch**
Foyer

Harbour View 1

1.30-2.30	Local case studies: Tainting of grapes by woodsmoke – a sensory experience in food or drinks Presenter: Ian Porter - LaTrobe University (TBC)
2.30-3.30	An emerging science in odour – The use of odour signatures and medical diagnosis: Crossover and challenges beyond the environmental space and utility of analytical techniques. Sniffer dogs – The remarkable olfactory potential and its promise for revolutionising drugs and medical detection. Presenter: James Hayes
3.30-4.30	Sensory analysis: Can you tell the difference? A taste of different wine and water quality Presenter: Anthony Domanti (TBC)
4.30-5.30	Odour regulators panel discussion – A workshop into a hypothetical scenario for an approval process of a facility across each state in Australia and New Zealand: What are the differences, similarities, and consequences? Presenter: Facilitated by OSIG Chairs
5.30-7.00	Welcome Drinks <i>Mezzanine Foyer, Hotel Grand Chancellor</i>

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



MONDAY 26 AUGUST 2024

ODOUR

8.00-8.30	Conference Registration <i>Mezzanine Foyer, Hotel Grand Chancellor</i>		
	Plenary Session <i>Harbour 1</i>		
08.50-9.00	Welcome and Housekeeping <i>TBC</i>		
09.00-10.45	Theme 1 - Odour Assessment and Measurement		
	Presentation Title	Author	Affiliation
09.00-09.15	63 Odour Threshold Determination: Assessor Selection through Multiple Reference Odorants	Michael McGinley	St. Croix Sensory, USA
09.15-09.30	5 Developing a method for the automated analysis of odorants in air emissions	Dr Jan Peter Mayser	Markes International, Germany
09.30-09.45	14 Creating a fresh future for Brisbane City	Sofia Andriany	Urban Utilities
09.45-10.00	16 Emission assessment for wastewater treatment plants: integrating mathematical modelling and flux hood laboratory experiments with field data	Dr Kamila Furtado Cupertino	Companhia Espirito-santense de Saneamento, Brazil
10.00-10.15	43 City-wide modelling and monitoring of sewer networks for odour and corrosion	Prof Jes Vollertsen	Aalborg University, Denmark
10.15-10.30	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
10.30-10.45	29 Validation of the methodological specifications for determining the measurement uncertainty of olfactometry in accordance with the new DIN EN 13725:2022	Kathrin Kwiatkowski	North Rhine-Westphalia Office of Nature, Environment and Consumer Protection (LANUV), Germany

10.45-11.15	Morning Tea and Exhibition <i>Exhibition Hall</i>		
-------------	---	--	--

11.15-13.00	Theme 2 - Odour Dispersion Modelling and Simulation		
	Presentation Title	Author	Affiliation
11.15-11.30	11 How tall is tall enough? An investigation into passive sewer vent shafts	Rory O'Shea	Stantec
11.30-11.45	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
11.45-12.00	19 A holistic approach to Odour Control: A Case Study from Bunbury, WA	Katherine Cochrane	Water Corporation
12.00-12.15	20 Dynamic modelling of odour risk in sealed sewer systems using digital twins: Analysis at seven catchments	Chaim Kolominskas	Envirosuite
12.15-12.30	27 Using Data Driven Modelling to Systematically Assess Wastewater Conveyance Network Odour and Hazardous Gases Risk	Phillip Meng	Water Corporation

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



12.30-12.45	38	Integrated approach to assess odour impact in communities: emission inventory, dispersion modelling and community perception and annoyance	Dr Elisa Valentim Goulart	Federal University of Espirito Santo, Brazil
12.45-13.00	67	Calibrating Dispersion Modelling with Field Odour Surveys to Determine Impact of Broiler farms	Michael Asimakis	GHD

13.00-13.55	Lunch and Exhibition <i>Exhibition Hall</i>			
-------------	---	--	--	--

Concurrent Paper Presentation

14.00-15.30	Theme 1 - Odour Assessment and Measurement <i>Harbour View 1</i>			Theme 2 - Odour Dispersion Modelling and Simulation <i>Chancellor 6</i>		
14.00-14.15	23	Comparison of Measured and Model Predicted Odour Emissions from Sewerage Mains	Hasan Shahariar Trinity Consultants	32	The application of field ambient odour assessment methods in odour dispersion model performance evaluation and source emission rate determination	Andrew Balch Air Environment Consulting Pty Ltd
14.15-14.30	44	Training a Regulatory Team to Adopt the Odor Profile Method for Airborne Malodor Evaluations	Prof Mel Suffet UCLA, USA	45	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
14.30-14.45	31	Case study examples of ambient odour assessment methods and an innovative new software	Andrew Balch Air Environment Consulting Pty Ltd	53	A Breath of Fresh Air in Odour Forecasting. The case of a composting plant	Roberto Bianconi Enviroware
14.45-15.00	48	How the design of sampling devices influences emissions measurement - what are we really using?	Lisha Liu UNSW Sydney	54	Influence of terrain roughness on the simulated impact area of odorant emission from stabilisation ponds	Maria Joana Allievi Federal University of Santa Catarina, Brazil

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



15.00-15.15	59	Development of odour intensity reference solutions using four odorous chemicals for environmental odour evaluation	Prof. Takaya Higuchi	Yamaguchi University	62	Examination of Aermod's new area source meander scheme	Jennifer Barclay	Atmospheric Science Global ASG
15.15-15.30	61	Odour challenges in anaerobic co-digestion: sensory investigation into substrate feeds impact on biosolids emissions	Thais Nunes Guerrero	UNSW Sydney				

15.35-16.00	Afternoon Tea and Exhibition <i>Exhibition Hall</i>							
-------------	---	--	--	--	--	--	--	--

Concurrent Paper Presentation

		Theme 3 - Odour Management in Specific Industries			Theme 4 - Odour Abatement and Control Strategies			
		<i>Harbour View 1</i>			<i>Chancellor 6</i>			
16.00-17.00								
16.00-16.15	8	Impact of VOC Site Sampling on the Sizing of Odour Control Facilities	Dr Tingting Zhang	Stantec	1	Modern strategies against odor and biogenic corrosion in sewage systems: Odor simulation with unitechnics sulfidus	Dipl.-Ing. Dipl.-Umweltwiss. Andreas Obermayer	UNITECHNICS
16.15-16.30	50	Operational Excellence in Odour Management for Refinery and Petrochemical Complex	Siti Norzamia Nadzmi	Petronas, Malaysia	12	Odour removal from rubber emissions by activated carbon adsorption	Nur Fadhilah Idris	Malaysian Rubber Board, Malaysia
16.30-16.45	55	Managing odor nuisance and public complaints from a mega petrochemical complex in Southeast Asia	Syarifah Noorlia, Wan Bujang	Petronas, Malaysia	3	Innovations and improvements in odour impact from Porirua WWTP, wellington NZ	Joseane Costa	Stantec
16.45-17.00	71	Gas-phase biofilter reduces bioaerosol emission in real-world application	Lan Tian	Tsinghua University, China	9	Abnormal contaminants in sewer foul air and their impact on odour control	Dr Tingting Zhang	Stantec
		Day 1 Close <i>Harbour View 1</i>						

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



TUESDAY 27 AUGUST 2024

ODOUR

8.00-8.30	Conference Registration <i>Mezzanine Foyer, Hotel Grand Chancellor</i>
8.30-8.45	Welcome and Housekeeping <i>TBC</i>

Theme 3 - Odour Management in Specific Industries			
	Presentation Title	Author	Affiliation
08.45-09.00	7 Cost effective chemical dosing for odour and corrosion control	Aaron O'Connell	Unitywater
09.00-09.15	10 The Impact of Upset Conditions on Odour at Sewage Treatment Plants	Jay Shin	Stantec
09.45-10.00	26 Hoppers crossing pump station odour control facility	Gary Finke	Clean TeQ Aromatrix Pty Ltd
09.15-09.30	13 Learning from odour lessons at the Liverpool Ashfield Pipeline	Louisa Vorreiter	Sydney Water
10.00-10.15	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
09.30-09.45	17 Hunter Water's odour control journey: Tips, tricks and lessons learnt	Tara Pagnutti	Hunter Water

10.15-11.00	Morning Tea and Exhibition <i>Exhibition Hall</i>
-------------	---

Theme 4 - Odour Abatement and Control Strategies			
	Presentation Title	Author	Affiliation
11.00-11.15	18 The Intrinsic Link Between Sewer Network Odour and Wastewater Treatment Processes	Miss Hannah Stuart	Aquadex
11.15-11.30	22 Assessment of Chemical Dosing for Odour Emission Control from Sewer	Xinguang Wang, Anne Mette Brigitte Nielsen, Alfredo Anceno, Richard Stuetz	UNSW Sydney
11.30-11.45	24 Sewer odour reduction through odour neutralising misting system	Peter Smith	Urban Utilities
11.45-12.00	35 Odor removal by high speed biofilter at the pilot-scale in wastewater treatment plant headworks operations	Manuel Alejandro Hernandez Shek	SUEZ
12.00-12.15	41 Simultaneous removal of Ammonia and sulfur odorants in biotrickling filters and N2O production	Jianghui Du, Juping You, Zhen Cai, Dezhao Liu	Zhejiang University, China
12.15-12.30	42 Packing modification and surfactant for better removal of sulfurous compounds in biotrickling filters	Jianghui Du, Juping You, Dezhao Liu	Zhejiang University, China

12.30-1.30	Lunch and Poster Presentation <i>Exhibition Hall</i>
------------	--

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



Concurrent Paper Presentation							
Theme 5 - Community Odour Perception and Sensory Evaluation <i>Harbour View 1</i>				Theme 6 - Odour Impact Assessment and Mitigation <i>Chancellor 6</i>			
13.30-15.30							
13.30-13.45	4	Evaluation and Follow-up of Odour Complaints	Bronson Stoneham	Ektimo	37	Comprehensive Odor Design Tool : A significant leap forward in the definition of the best odor treatment design	Catherine Gracian SUEZ
13.45-14.00	30	Results of a case study in Germany (NRW) - assessment of an odour complaint based on the criteria of Annex 7 TA Luft 2021 (Technical Instructions on Air Quality Control)	Kathrin Kwiatkowski	North Rhine-Westphalia Office of Nature, Environment and Consumer Protection (LANUV)	56	Trials and tribulations of quantifying and assessing odour impacts of asphalt plants	Judith Cox SLR Consulting
14.00-14.15	33	Towards a standardized sensory analysis methodology by direct sensory evaluation	Preben Van Overmeiren	OLFASCAN, The Netherlands	60	Odour control in the wastewater sector	Andrew Fleming Aquatec Fluid Systems Pty Ltd
14.15-14.30	39	Applying cluster analysis to explore communities perception of odour nuisance	Milena Machado	University Federal of Espirito Santo, Brazil	66	Scents and Sustainability: How nuisance odours can be incorporated into Lifecycle assessment (LCA)	Dr Ruth Fisher UNSW Sydney
14.30-14.45	46	Qualitative analyses related to odour perception and annoyance caused by odorant gases	Franciele Ribeiro Cavalcante	University Federal of Espirito Santo, Brazil	69	Iona Island Wastewater Treatment Plant (IIWTP) Odour Impact Reductions Using a Phased Odour Control Strategy	Jay Robert Witherspoon AECOM, USA

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



14.45-15.00	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			
-------------	----	---	-------------	--------------------------	--	--	--

15.00-15.30	Afternoon Tea and Exhibition <i>Exhibition Hall</i>						
-------------	---	--	--	--	--	--	--

Concurrent Paper Presentation							
--------------------------------------	--	--	--	--	--	--	--

15.30-16.30	Theme 5 - Community Odour Perception and Sensory Evaluation <i>Harbour View 1</i>			Theme 7 - Emerging Technologies in Odour Science and Engineering <i>Chancellor 6</i>			
-------------	---	--	--	--	--	--	--

15.30-15.45	52	First Standard UNE 77270 "Building Collaborative Odour Maps through Citizen Science"	Cyntia Izquierdo	Ambiente et Odora	64	AI Sensor Array Electronic Nose Technology	Song Gao	Shanghai University, China
-------------	----	--	------------------	-------------------	----	--	----------	----------------------------

15.45-16.00	58	Complaint management in the context of malodour in Australia	Dr James Hayes	UNSW, Sydney	25	Innovative chemical dose control for odour management through continuous sulphide monitoring	Mr Sean Paul	TasWater
-------------	----	--	----------------	--------------	----	--	--------------	----------

16.00-16.15	68	Development of GC-MS-MS and sensory analysis for multi-odorants detection.	Chung Yiin Wong	UNSW Sydney	57	Enhancing odor management with a Machine Learning Model for Effluent Treatment Plant in Mega Petrochemical Complex	Nor Azman Bin Zakaria	Petronas, Malaysia
-------------	----	--	-----------------	-------------	----	--	-----------------------	--------------------

16.15-16.30	65	Research on the Environmental Characteristics and Monitoring Methods of Odors for the Fragrance and Flavor Industry	Song Gao	Shanghai University, China				
-------------	----	---	----------	----------------------------	--	--	--	--

Conference Close <i>Harbour View 1</i>							
--	--	--	--	--	--	--	--

6.30-late	COMBINED GALA DINNER & AWARDS NIGHT <i>Tasman Room Wrest Point, 410 Sandy Bay Road Sandy Bay</i>						
-----------	--	--	--	--	--	--	--

DRAFT CONFERENCE PROGRAM

Revision Date: 18 April 2024



WEDNESDAY 28 AUGUST 2024

ODOUR

Site Visits	
	TasWater, Blackmans Bay STP, TAS
	Skretting Australia, Cambridge, TAS
	Cheese Factory

POSTERS

ODOUR

No	Poster Presentations	Author	Affiliation
34	Advancing livestock emission monitoring: Continuous measurement of ammonia from barns using compact laser diode spectroscopy detectors	Preben Van Overmeiren	OLFASCAN
47	Mitigation of odors and volatile organic compounds by a pilot-scale biowindow at a sanitary landfill, Republic of Korea	Prof. Kyung-Suk Cho	Ewha Womans University
49	Wet and dry removal methods of sulfurous odor using advanced oxidants	Prof. Hee Wook Ryu	Soongsil University