

Day 0 Sunday 24 September		
17:30 - 20:00	Registration and welcome cocktail	Ground floor, Lobby

Day 1 Monday 25 September		
8:45-9:30	Arrival	Ground floor, Lobby
9:30 - 11:00	Sessions	First floor, Aula
		<b>1 - Opening session</b> <b>Chairperson - Radosław Barczak</b>
	9:30 - 9:35	Opening speech - Rector of the Warsaw University of Technology Jan Szmidt
	9:35 - 9:45	IWA development in Poland
	9:55 - 10:40	Lessons learned from solving livestock odour problem: an American perspective J. Koziel
10:40 - 11:00	The chemical treatment of odours and toxic gases using patented, active molecules B. Kaszuk	
11:00 - 11:30	Morning tea	Ground floor, Lobby
11:30 - 12:50	Sessions	Fourth floor, Room 4.04
		<b>2 A - Odorants &amp; odour measurement/monitoring - part 1</b> <b>Chairpersons - Takaya Higuchi, Radosław Barczak</b>
	Fourth floor, Room 4.05	
	<b>2 B - Biofiltration &amp; chemical scrubbers - part 1</b> <b>Chairpersons - Dezhao Liu, Mirosław Szytak-Szydłowski</b>	
11:30 - 11:50	1	Odor activity value as a method for evaluating odor abatement technologies for animal production M. J. Hansen, A. Feilberg
11:50 - 12:10	2	Bias of Dynamic Olfactometry on the Chemical Composition of Livestock Odor Samples and Projected Impact on the Evaluation of Abatement Technologies P. Kasper, M. J. Hansen, A. Feilberg
		Biotrickling filtration of acetone air emissions: looking for laboratory solutions for industrial applications P. San-Valero, C. Gabaldón, F. J. Álvarez-Hornos, M. Izquierdo, V. Martínez-Soria
		Isolation and characterization of mixotrophic sulfur oxidizing bacteria tolerant to low DO concentration B. Pang, J. Xi

	12:10 - 12:30	3	Characterization and Prediction of Odours from Municipal Sewage Treatment Plant in China W. Li, W. Yang, J. Li	Treatment of discontinuous emission of sewage sludge odours by a full scale biotrickling filter with an activated carbon polishing unit F. Sempere, P. Winter, A. Waalkens, N. Hühnert, I. Cranshaw, B. Beigi, R. B. Thorpe
	12:30 - 12:50	4	Do Chemical and Sensorial Odor Nuisance Result Agree? (Olfactometry, Odor Profile Method and Chemical Analysis) T. Vitko, Y. Zhou, I. H. (Mel) Suffet	Biogas and volatile fatty acids-driven polyhydroxyalkanoates production by Methylocystis hirsuta J. C. López, L. Merchán, E. Arnáiz, R. Lebrero, R. Muñoz
13:00 - 14:00	Lunch	Address: Rektorska St. 2 After leaving the Venue turn left to the next building.		
14:10 - 15:30	Sessions	Fourth floor, Room 4.04		Fourth floor, Room 4.05
		<b>3 A - Field measurements Chairpersons - Michael McGinley, Andrzej Kulig</b>		<b>3 B - Biofiltration &amp; chemical scrubbers - part 2, Chairpersons - Raul Muñoz, Agnieszka Tabernacka</b>
	14:10 - 14:30	1	VDI 3883 Standard based web tool for odour impact assessments P. Ubilla, A. Amo, J. V. Martínez, J. M. Juarez-Galan, R. Cerdá	Characterization of a peroxone wet scrubber (O <sub>3</sub> + H <sub>2</sub> O <sub>2</sub> ) for removal of volatile sulfur compounds H. Yao, A. Feilberg
	14:30 - 14:50	2	Improving environmental odour measurements: comparison of lab-based standard method and portable odour measurement technology D. L. Maurer, A. Bragdon, B. Short, H. K. Ahn, J. A. Koziel	Performance of two anaerobic reactors treating VOCs from printing facilities P. Ferrero, J. M. Penya-Roja, C. Gabaldón, K. Torres, V. Martinez-Soria
	14:50 - 15:10	3	Influence of Local Terrain on Odour Attenuation over Distance in a Dairy Farm with Biogas Plant M. Keck, M. Frei, B. Steiner, S. Schrade	Effect of inoculation on ammonia and nitrous oxide emissions from biological air scrubbers at a pig housing facility C. Van der Heyden, E. I. P. Volcke, P. Demeyer
	15:10 - 15:30	4	Analysis of odour episodes through dispersion modelling, field olfactometry and citizen's complaints: a case study of a paper-mill in a complex-topography area V. Valdenebro, E. Sáez de Cámara, G. Gangoiti, L. Alonso, J. A. García, M. Navazo, M. de Blas, J. Lavín, N. García-Borreguero	Bacterial community diversity in a full scale biofilter treating wastewater odor M. J. Allievi, D. D. Silveira, M. E. Cantão, P. B. Filho
15:30 - 16:00	Afternoon tea	Ground floor, Lobby		

16:30 - 20:30	Warsaw sightseeing tour + social event, meeting point in the Lobby at Ground floor
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Day 2 Tuesday 26 September			
8:30 - 9:00	Arrival	Ground floor, Lobby	
9:00 - 10:20	Sessions	Fourth floor, Room 4.04	Fourth floor, Room 4.05
		<b>4 A - Odour dispersion modelling and e-noses</b> Chairpersons - Selena Sironi, Andrzej Kulig	<b>4 B - Odour mitigation strategies and odour management - part 1</b> chairperson - Carlos Diaz, Mirosław Szytak-Szydłowski
	9:00 - 9:20	1 Seasonal odor impact range of the selected wastewater treatment plants - modeling studies using Polish reference model I. Sówka, Y. Bezyk, U. Miller, Ł. Pachurka, A. Grzelka	A Comparison of Removal Performance of Volatile Organic and Sulfurous Compounds between Odour Abatement Systems A. Shammay, E. C. Sivret, I. Evanson, R. Stuetz
	9:20 - 9:40	2 Sensitivity analysis of the water9 model: odorous emissions on passive liquid surfaces present in wastewater treatment plants M. J. Calvo, A. A. Prata Jr, J. M. Santos, L. Hoinaski, R. Stuetz	Overview of different solutions to mitigate odour and H <sub>2</sub> S from municipal emissions sources W. Franke, M. Ettl, G. Doppelbauer, J. Hilmers, M. Allerborg
	9:40 - 10:00	3 eNoses as a Tool to Map the Odour Situation of Pig-Farm B. Milan, S. Bootsma, I. Bilsen	Integrating Odour Nuisance Impacts and Combined Control Strategies from City of San Mateo's Wastewater Conveyance System through Wastewater Treatment Plant Processes J. R. Witherspoon, W. Desing, J. Siczka, C. Zammit, B. Underwood
10:00 - 10:20	4 Using e-nose technology for advanced on-line odour monitoring at wastewater treatment plants J. Alferes, G. Adam, J. Delva, N. Noyon, S. Martin	Odour Control: A successful experience in Sorocaba city - Brazil M. Cipriani, R. Schiavi, F. Santos	
10:20 - 10:50	Morning tea	Ground floor, Lobby	
	Sessions	Fourth floor, Room 4.04	Fourth floor, Room 4.05
		<b>5 A - Odorants &amp; odour measurement / monitoring - part 2</b> Chairpersons - Eva Gallego, Anna Rolewicz-Kalińska	<b>5 B - Odour mitigation strategies and odour management - part 2</b> Chairpersons - Herman Van Langenhove, Mirosław Szytak-Szydłowski

10:50 - 12:30	10:50 - 11:10	1	Identification of odorant characters using GC-MS/O in biosolids emissions from two WWTPs using aerobic stabilisation and one using anaerobic stabilisation R. M. Fisher, R. J. Barczak, R. M. Stuetz	Dealing with hydrogen sulfide induced problems downstream of sewer rising mains E. Vinck, B. Donckels, J. Severyns, M. Weemaes
	11:10 - 11:30	2	New approach to resolve the humidity problem in VOC determination in outdoor air samples using solid adsorbent tubes followed by TD-GC-MS L. Vallecillos, A. Maceira, R. M. Marcéa, F. Borrulla	New ventilation strategy to control the odor and the air quality : Seine Aval waste water treatment plant case study V. Nastasi
	11:30 - 11:50	3	Odorants and Their Contributions to Overall Odour Emission from a Landfill Leachate X. Wang, G. Parcsi, E. Sivret, N. Le-Minh, D. Campbell, R. M. Stuetz	An Odour Management Assessment Undertaken At A Large Waste Management Facility in Australia, With Multiple Waste Processing Operations – A Case Study M. Assal, T. Schulz
	11:50 - 12:10	4	Occurrence of 2-Isopropyl-3-methoxypyrazine (IPMP) in anaerobically stabilised dewatered biosolids emission R. J. Barczak, R. M. Fisher, R. M. Stuetz	Mitigation of livestock odours using a black light and a new titanium dioxide-based catalyst: proof-of-concept W. Zhu, J. A. Koziel, D. L. Maurer
	12:10 - 12:30	5	Determination of volatile organic sulfur compounds in raw natural rubber by gas chromatography N. H. Kamarulzaman, N. Le-Minh, S. J. Moore, R. M. Stuetz	Development of a tool for improving the management of gaseous emissions in UASB-based sewage treatment plants C. A. de Lemos Chernicharo, E. M. F. Brandt, T. Bressani-Ribeiro, V. R. Melo, F. J. Bianchetti, C. R. Mota Filho, E. McAdam
12:30 - 13:30	Lunch	Address: Rektorska St. 2 After leaving the Venue turn left to the next building.		
	Sessions	Fourth floor, Room 4.04		Fourth floor, Room 4.05
		<b>6 A - Source characterisation and odour mapping Chairpersons - Jay Witherspoon, Andrzej Kulig</b>		<b>6 B - Sampling, applications of odour measurement and odour treatment Chairpersons - Jacek Koziel, Anna Rolewicz-Kalińska</b>
	13:40 - 14:00	1	Evaluation of odour emission rates from different types of sources in wastewater treatment facilities M. Invernizzi, L. Capelli, S. Sironi	Is Drone Sampling an Acceptable Method for Assessing Odours from Area and Complex Sources? A. H. Bokowa, M. A. Bokowa

13:40 - 15:20	14:00 - 14:20	2	Characterization of odorants emitted during sludge drying using olfactory- gas chromatography-mass spectrometry N. Noyon, T. Ribeyre-Stecki, J. Alferes, S. Martin, R. Cerda Ortiz, M. Esperanza	Evaluation of sampling bags for the storage of odorants from intensive pig production by PTR-MS M. Zun, D. Xiaorong, Y. Shihao, L. Dezhao
	14:20 - 14:40	3	Sewer Catchment Effects on Wastewater and Biosolids Odour Management R. M. Fisher, A. Shamma, J. P. Alvarez Gaitan, R. M. Stuetz	Odor reconstitution evaluation for musty and septic odor problem in Huangpu River source water: is there synergistic effect existing? Q. Guo, C. Wang, X. Yang, M. Yang, J. Yu
	14:40 - 15:00	4	Extended CSO control storage: What could possibly go wrong? S. Georgaki, D. Vernon, R. Baur, D. Black, D. Crawford	The use of impregnated activated carbon for enhanced chemical adsorption of sulphur- and amine-containing volatile organic compounds (VOCs) as back-up for incinerator maintenance and unexpected system failure M. Meersseman, A. Beuckels, F. Van Dorpe, J. Callewaert
15:30 - 16:30	Afternoon tea +	Ground floor, Lobby		
		<b>7 - Poster session</b>		
		1	Evaluation of sampling strategies for the determination of 1,3-butadiene in industrial and urban atmospheres A. Maceira, L. Vallecillosa, R. M. Marcéa, F. Borrulla	
		2	VOC and odorous emissions from cannabis clubs in Barcelona city E. Gallego, P. Teixidor, F.J. Roca, J. F. Perales, E. Gadea	
		3	The Characteristic Curves of Hedonic Tone for Typical Odour Emission Sources in China L. Wei-Fang, Y. Feng-Yue	
		4	Identification of volatile organic compounds in area of municipal solid waste treatment plant – assessment of impact on human health K. Kuklińska, E. Olkowska, L. Wolska	
		5	Chemical quality and microbiology of air in the sorting hall of solid waste. Identification of volatile organic compounds (VOCs) E. Olkowska, J. Ratajczyk, M. Michalska, W. Ratajczyk, L. Wolska	
		6	Odour impact situation by area sources with low odour concentrations – field measurements compared to dispersion modeling B. Mannebeck, H. Hauschildt, S. Schmid	

15:20 - 16:30	7	Comprehensive assessment of perceived air quality in sewage treatment plant, considering selected characteristics of odorants M. Szyłak-Szydłowski
	8	Application process corrosive in absorption method for cleaning malodorous gases coming from poultry farm I. Wysocka, D. Wysocka, Ł. Kwiatkowski
	9	Performance of UASB Reactors Treating Volatile Organic Compounds under intermittent loading: effect of chitosan addition K. Torres, P. Marzal, C. Gabaldón, P. Ferrero, F. J. Álvarez-Hornos
	10	Visualization of odorant spread on selected sewage treatment plant using advanced GIS solutions A. Wrzosińska, M. Szyłak-Szydłowski
	11	The usage of physicochemical methods and microalgae in purification of biogas produced during the anaerobic digestion of meat industry wastewater A. Kwarciak-Kozłowska, L. Sławik-Dembiczak, M. Gałwa-Widera, J. Bień
	12	Biofiltration represents highly as an effective method of gas treatment of odours M. Gałwa-Widera, A. Kwarciak-Kozłowska, J. Bień
	13	Can we combine field olfactometry and plume method measurements? M. M. Vieira, J.-M. Guillot, P. B. Filho, A.-C. Romain, G. Adam, J. Delva, M. Baron, T. Van Elst
19:00 - 01:00	Social dinner	Primate's Palace ( <a href="http://www.hotelbellotto.pl/basement">http://www.hotelbellotto.pl/basement</a> ), address: Senatorska St. 13/15

Day 3 Wednesday 27 September			
9:00 - 9:30	Arrival	Ground floor, Lobby	
	Sessions	Fourth floor, Room 4.04	Fourth floor, Room 4.05
		<b>8 A - Community engagement, social media and citizen action</b> <b>Chairpersons - Izabela Sówka, Anna Rolewicz Kalińska</b>	<b>8 B - Biofiltration, chemical scrubbers and masking agents</b> <b>Chairpersons - Anders Feilberg, Agnieszka Tabernacka</b>
9:30 - 9:50	1	<b>Communicative structures for online odour management</b> J. Hayes, R. Aurisch, R. Stevenson, R. M. Stuetz	<b>Technological research on integrated biofilter for purifying and deodorization of process gases from selected industries</b> P. Manczarski, K. Lelicińska-Serafin, A. Rolewicz-Kalińska

9:30 - 10:50	9:50 - 10:10	2	<b>Complaint management: towards odour reporting optimisation</b> J. Hayes, R. Stevenson, R. Aurisch, R. M. Stuetz	<b>Estimation of the operating critical time of a biofilter to mitigate atmospheric pollution by styrene emission and other vocs in the fiberglass reinforced plastic industry</b> C. A. Severi, J. Galvez, S. Vardaro
	10:10 - 10:30	3	<b>Analysis of the citizens complaints in Poland on odour nuisance</b> A. Kulig, M. Szyłak-Szydłowski	<b>Odor abatement with zero-valent iron nanoparticles</b> J.A. García, B. Calderón, A. Fullana
	10:30 - 10:50	4	<b>Odour complaints in urban environment</b> B. Mannebeck, S. Schmid	<b>Masking agent efficiency on odor removal from WWTP sludge drying process</b> F. Rousseille, A. Venture
10:50 - 11:20	Morning tea	Ground floor, Lobby		
11:50 - 13:10	Sessions	First floor, Aula		
		<b>9 A - Air quality policy and associated regulations</b> <b>Chairperson - Irwin (Mel) Suffet, Radosław Barczak</b>		
	11:20 - 11:40	1	<b>Improvement of interlaboratory evaluation method of olfactometry in Japan</b> T. Higuchi, K. Shigeoka	
	11:40 - 12:00	2	<b>Odour Threshold Determination: Understanding the Assessor Response</b> M. A. McGinley, C. M. McGinley, K. Weiss	
	12:00 - 12:20	3	<b>Lessons Learnt from Supporting a Community in the Environment Court. A Case Study</b> J. Barclay	
12:20 - 12:40	Closing session	<b>10 - Closing session - awards for the best poster and presenter</b>		
12:40 - 13:40	Lunch	Address: Rektorska St. 2 After leaving the Venue turn left to the next building.		
13:40 - 14:10	IWA SG meeting	Ground floor, Lobby		
16:00 - 19:00	Informal social event	will be announced		