



INTERNATIONAL CONFERENCE

INTERNATIONAL OZONE ASSOCIATION
European African Asian Australasian Group

Ozone and Related Oxidants: Advances in Science and Technology

From Generation to Application in Water Treatment, Food Processing, Agriculture, Industry, Health and Environment



June 3 - 5, 2014
Dublin, Ireland

ADVANCE PROGRAMME

Tuesday 3 June 2014

8h30-10h30	Registration	
10h00	Welcome coffee	
10h30-12h00	Opening session	
10h30-11h00	Conference introduction <i>F. Violleau, M. Roustan, IOA-EA₃G Officers</i>	
11h00-11h30	Ozone as active substance under the biocidal product regulation <i>B. Paolini, General Manager Degrémont Technologies AG, Chairman of the Ozone Registration Group BWT, Degrémont Technologies (Ozonia), ProMinent and Xylem (WEDECO)</i>	
11h30-12h	Ozone in Food processing: Challenges and Applications <i>C. P. O'Donnell Vice Principal of the UCD College of Engineering and Architecture. Manager of the Food Processing and Quality Pillar within the UCD Institute of Food and Health (Ireland)</i>	
12h00	Lunch	
13h30-17h30	Session 1. Agri-food applications	
13h30-14h	Effect of ozone on quality and safety of fruit based smoothies <i>U. Tiwari (Ireland)</i>	
14h00-14h30	Influence of postharvest ozone treatment on decay, catalase, lipoxygenase activities, and anthocyanin content of 'Redglobe' table grapes <i>T. Yaseen, A. Ricelli, P. Albanese, I. Nicoletti, S. Essakhi, A. M. D'Onglia (Italy)</i>	
14h30-15h00	Generation and efficacy of in-package ozone <i>Dr PJ Cullen (Australia)</i>	
15h00-15h30	Application of ozone in meat and fish processing <i>B. Tiwari (Ireland)</i>	
15h30-16h00	Coffee break	
16h00-16h30	Destruction of malodorous compounds and VOCs from a simulated shrimp feed mill stack by ozone – catalytic oxidation process over CuO/MnO ₂ catalyst <i>S. Jodpimai, V. Piriyawong, P. Limsuwan (Thailand)</i>	
16h30-17h00	Application of ozone in food spices and grains. <i>B. Tiwari (India)</i>	
17h00-17h30	Influence of ozonation conditions on composition and on antibacterial activity of ozonated sunflower oils <i>S. Moureau, F. Violleau, D. A. Haimoud-Lekhal, A. Calmon (France)</i>	

Exhibition

Exhibition

Tuesday 3 June 2014

Medical Ozone: Low Dose Concept – Guidelines and Treatment Strategies

Medical Society for the Use of Ozone in Prevention and Medicine

Dr. med. Adriana Dragan, Konstanta (Romania)

Dr. med. Michael Schreiber, Aystetten/Augsburg (Germany)

Prof. Dr. med. Ziad Fahmy, Bad Kreuznach (Germany)

Dr. rer. nat. Renate Viebahn-Hänsler, Baden-Baden/Iffezheim (Germany)

8h30-10h30	Registration
10h00	Welcome coffee
10h00-12h00	Part I. Chronic inflammatory processes, angiopathia and age related diseases, oxidative stress related diseases, Complementary oncology, treatment strategies Introduction: guidelines of ozone therapy; Ozone and hormesis, toxicity vs therapeutical benefit
	Chronic inflammatory processes
	Secondary prevention e.g. in diabetic patients
	Age related diseases
	Complementary oncology
	Pharmacology, concentrations, dosis, treatment concepts
	Systemic treatments
	Auto hemotherapies, rectal ozone application
	Combination with orthomolecular therapy and other biological infusion therapies for regeneration
12h00	Lunch
13h30-17h30	Part II. Pain management Triggerpoints, acute and chronic processes in rheumatology, disc hernia and the specific injection techniques Pain management
	Myofascial pain syndrome, triggerpoints, injection techniques
	Ozone and local anesthetics (neural therapy)
15h30-16h00	Coffee break
	Ozone and acupuncture
	Intraarticular and periarticular injections in inflammatory conditions of the joints

Wednesday 4 June 2014

8h30-10h30	Session 2. Advanced Oxidation processes
8h30-9h00	Ozone/H₂O₂ performance on the degradation of Sulphamethoxazole R. C. Martins, R. F. Dantas, C. Sans, S. Esplugas, R. M. Quinta-Ferreira (Portugal, Spain)
9h00-9h30	Comparison of ozonation (O₃ and O₃/H₂O₂) with solar photo-fenton for cork boiling wastewater remediation I. Oller, E. De Torres-Socías, M. J. Trinidad-Lozano, F. J. Yuste-Córdoba, S. Malato (Spain)
9h30-10h00	Heterogeneous nanocatalytic ozonation C. Tizaoui, H. Mohammad-Salim (UK)
10h00-10h30	Apply recyclable magnetic palladium-manganese catalyst with ozonation to decompose natural organic matters C.J. Tsao, L.W. Lu, C.N. Chang, C.K. Wang (Taiwan)
10h30-11h00	Coffee break
11h00-12h00	Session 3. Oral introduction and Poster session
	Degradation of simulated textile effluent employing electrochemically generated OCl⁻ under UV photolysis T. de Mello Florêncio, A. Claudia G. Malpass, G.R. Pointer Malpass (Brazil)
	Photocatalytic ozonation of short chain carboxylic acids C.A. Orge, J.L. Faria, M.F.R. Pereira (Portugal)
	Degradation of a mixture of pharmaceuticals by catalytic ozonation A. Gonçalves, J. Restivo, J. Órfão, E. Garcia-Bordejé, M. Pereira (Portugal, Spain)
12h00	Lunch
13h30-15h30	Session 4. Industrial ozone applications
13h30-14h00	Ozonation and electrolysis for seawater application J.W. Kang, Y. Jung, E. Hong (Republic of Korea)
14h00-14h30	UV oxidation as a stand-alone and complementary technology for odor reduction in air pollution control: introduction of the concept of „UV-dosage“ as a design parameter of air treatment photochemical reactors H. Ruiz, E. Arnold, E. Roth (Germany)
14h30-15h00	Application of Ozone in the US Dairy Industry M. Oneby, M. Walsh (USA)
15h00-15h30	A preliminary investigation into the efficacy of ozone for inactivation of the microalgae dunaliella tertiolecta in photobioreactors R. M. Clarke, P. J. Solan, B. K. Tiwari, C. P. O'Donnell, T. P. Curran (Ireland)
15h30-16h00	Coffee break
16h00-18h00	Session 5. Focus on micropollutants issues
16h00-16h30	Removal of Chemicals of Emerging Concerns (CECs) in the water cycle – a review of existing treatment solutions A. Ried (Germany)
16h30-17h00	Treatment of nanofiltration concentrates by ozonation for pharmaceuticals removal in different water matrixes S. Miralles-Cuevas, F. Audino, I. Oller, J.A. Sánchez-Pérez, S. Malato (Spain, Italy)
17h00-17h30	Novel advanced oxidation process for the removal of emerging pesticides A. Bossmith, B. Holden, J. Scheideler (England, Germany)
17h30-18h00	Ozonation treatment of urban primary wastewater effluents M. Marcé, B. Domenjoud, S. Esplugas, S. Baig (Spain, France)
19h00	Conference dinner The Merry Ploughboy - Traditional Music Pub voted "Best Dinner/Entertainment in Ireland"

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Thursday 5 June 2014

8h30-12h00 Session 6. Ozone contacting systems and engineering

8h30-9h00 **How to make the contact between ozone and waters?**
M. Roustan, S. Baig (France)

9h00-9h30 **Absorption of ozone in water in a wetted wall column with film promoter**
C.R. Fonseca, A.C.S.C. Teixeira (Brazil)

9h30-10h00 **Introduction of Japanese Industrial Standard JIS B 9946**
H. Takahara, H. Tsuno (Japan)

10h00-10h30 Coffee break

10h30-11h30 **IOA Guidelines and Standards**
S. Baig, Chair of the IOA Ozone Engineering group

11h30-12h00 Closing session

12h00 Lunch

14h00-17h00 Technical visit
University College Dublin, Institute of Food and Health

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