**ADVANCE PROGRAMME**

**Tuesday 3 June 2014**

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<th>Time</th>
<th>Session</th>
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<tr>
<td>8h30-10h30</td>
<td>Registration</td>
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<tr>
<td>10h00</td>
<td>Welcome coffee</td>
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<tr>
<td>10h30-12h00</td>
<td>Opening session</td>
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<tr>
<td>10h30-11h00</td>
<td>Conference introduction</td>
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<tr>
<td>F. Violleau, M. Roustan, IOA-EA3G Officers</td>
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<tr>
<td>11h00-11h30</td>
<td>Ozone as active substance under the biocidal product regulation</td>
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<tr>
<td>B. Paolini, General Manager Degrémont Technologies AG, Chairman of the Ozone Registration Group BWT, Degrémont Technologies (Ozonia), ProMinent and Xylem (WEDECO)</td>
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<tr>
<td>11h30-12h</td>
<td>Ozone in Food processing: Challenges and Applications</td>
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<tr>
<td>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)</td>
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<tr>
<td>12h00</td>
<td>Lunch</td>
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<tr>
<td>13h30-17h30</td>
<td>Session 1. Agri-food applications</td>
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<tr>
<td>13h30-14h</td>
<td>Effect of ozone on quality and safety of fruit based smoothies</td>
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<tr>
<td>U. Tiwari (Ireland)</td>
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<tr>
<td>14h00-14h30</td>
<td>Influence of postharvest ozone treatment on decay, catalase, lipoxygenase activities, and anthocyanin content of 'Redglobe' table grapes</td>
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<tr>
<td>T. Yaseen, A. Ricelli, P. Albanese, I. Nicoletti, S. Essakhi, A. M. D’Onghia (Italy)</td>
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<tr>
<td>14h30-15h00</td>
<td>Generation and efficacy of in-package ozone</td>
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<td>Dr PJ Cullen (Australia)</td>
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<tr>
<td>15h00-15h30</td>
<td>Application of ozone in meat and fish processing</td>
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<tr>
<td>B.Tiwari (Ireland)</td>
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<tr>
<td>15h30-16h00</td>
<td>Coffee break</td>
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<tr>
<td>16h00-16h30</td>
<td>Destruction of malodorous compounds and VOCs from a simulated shrimp feed mill stack by ozone – catalytic oxidation process over CuO/MnO2 catalyst</td>
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<td>S. Jodpimai, V. Piriyawong, P. Limswuan (Thailand)</td>
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<tr>
<td>16h30-17h00</td>
<td>Application of ozone in food spices and grains.</td>
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<tr>
<td>B. Tiwari (India)</td>
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<tr>
<td>17h00-17h30</td>
<td>Influence of ozonation conditions on composition and on antibacterial activity of ozonated sunflower oils</td>
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<tr>
<td>S. Moureu, F. Violleau, D. A. Haimoud-Lekhal, A. Calmon (France)</td>
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## 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)

### Schedule

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<tr>
<td>10h00-12h00</td>
<td>Part I. Chronic inflammatory processes, angiopatia and age related diseases, oxidative stress related diseases, Complementary oncology, treatment strategies&lt;br&gt;Introduction: guidelines of ozone therapy; Ozone and hormesis, toxicity vs therapeutical benefit</td>
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<tr>
<td>12h00</td>
<td>Lunch</td>
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<tr>
<td>13h30-17h30</td>
<td>Part II. Pain management&lt;br&gt;Triggerpoints, acute and chronic processes in rheumatology, disc hernia and the specific injection techniques&lt;br&gt;Pain management</td>
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<tr>
<td>15h30-16h00</td>
<td>Coffee break</td>
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- **Chronic inflammatory processes**
- **Secundary 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**
- **Myofascial pain syndrome, triggerpoints, injection teciniques**
- **Ozone and local anesthetics (neural therapy)**
- **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 (O₂ 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**

11h00-12h00  **Degradation of simulated textile effluent employing electrochemically generated OCI- under UV photolysis**  
T. de Mello Florêncio, A. Claudia G. Malpass, G.R. Pointer Malpass (Brazil)

11h30-12h00  **Photocatalytic ozonation of short chain carboxylic acids**  
C.A. Orge, J.L. Faria, M.F.R. Pereira (Portugal)

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**  

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 matrices**  
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. Scheidefer (England, Germany)

17h30-18h00  **Ozonation treatment of urban primary wastewater effluents**  
M. Marcé, D. Doménjou, 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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<th>Time</th>
<th>Session 6. Ozone contacting systems and engineering</th>
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<tr>
<td>8h30-9h00</td>
<td><strong>How to make the contact between ozone and waters?</strong></td>
<td><em>M. Roustan, S. Baig (France)</em></td>
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<tr>
<td>9h00-9h30</td>
<td><strong>Absorption of ozone in water in a wetted wall column with film promoter</strong></td>
<td><em>C.R. Fonseca, A.C.S.C. Teixeira (Brazil)</em></td>
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<tr>
<td>9h30-10h00</td>
<td><strong>Introduction of Japanese Industrial Standard JIS B 9946</strong></td>
<td><em>H. Takahara, H. Tsuno (Japan)</em></td>
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<td>10h00-10h30</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>10h30-11h30</td>
<td><strong>IOA Guidelines and Standards</strong></td>
<td><em>S. Baig, Chair of the IOA Ozone Engineering group</em></td>
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<tr>
<td>11h30-12h00</td>
<td><strong>Closing session</strong></td>
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<td>12h00</td>
<td><strong>Lunch</strong></td>
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<tr>
<td>14h00-17h00</td>
<td><strong>Technical visit</strong></td>
<td><em>University College Dublin, Institute of Food and Health</em></td>
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