



INTERNATIONAL CONFERENCE

INTERNATIONAL OZONE ASSOCIATION
European African Asian Australasian Group

Ozone and Advanced Oxidation
for the Water – Food – Health Nexus



同濟大學
TONGJI UNIVERSITY

5 – 7 December 2017
Shanghai, China

Scientific and Technical Programme

Tuesday 5 December 2017

9h30-10h30	Registration
10h30	Opening session
10h30-11h00	Conference introduction Prof. Frédéric VIOLLEAU (IOA-EA ₃ G President, France)
11h00-12h00	Ozone applications in China, from industry to home and from A to Z G. Y S Chan, B.Y. Xu (PR China)
12h00	Lunch
13h30	Session 1. Advanced Oxidation processes
13h30-14h10	Ozone and Advanced Oxidation Processes: technologies and applications S. Baig (France)
14h10-14h30	Physical mixing of N-doped graphene quantum dots functionalized TiO ₂ with enhanced visible and NIR light absorption K. H. Leong, F. S. Yang, L. P. Feng, S. L. Ching, S. Pichiah (Malaysia, India)
14h30-14h50	Degradation of ibuprofen using ozone combined with peroxymonosulfate Z. Yuan, M. Sui, B. Yuan, P. Li, J. Wang, J. Qin, G. Xu (China)
14h50-15h10	Seasonal occurrence of micro pollutants in drinking water sources – evaluation of treatment strategies using AOPs and ozonation J. Scheideler, B. Holden, K.-H. Lee, M. Ma (Germany, England, Korea, China)
15h10-15h30	Optimization of ozone-dosage requirements for textile wastewater effluent through laboratory tests and analysis of reaction kinetics S. Yan, M. Randall (China, USA)
15h30-15h50	Technico-economical assessment for selection of technology for hard COD removal in industrial effluents H. Ji, A. Li, M. Zhou, Y. Penru, S. Baig, Y. H. Yang (China, France)
15h50-16h20	Discussion
15h50-16h20	Coffee break
16h20	Session 2. Ozone in Agrifood ok
16h20-17h00	Ozone in agriculture and food applications F. Violleau (France)
17h00-17h20	Production of ozonated water droplets and desorption M. Roustan (France)
17h20-17h30	Conclusions of the day



INTERNATIONAL CONFERENCE

INTERNATIONAL OZONE ASSOCIATION
European African Asian Australasian Group

Ozone and Advanced Oxidation for the Water – Food – Health Nexus



同濟大學
TONGJI UNIVERSITY

5 – 7 December 2017
Shanghai, China

Wednesday 6 December 2017

8h30	Session 3. Applications and Engineering
8h30-9h10	Introduction. Fundamentals for design of Gas-Liquid ozone reactors M. Roustan, J.S. Pic (France)
9h10-9h30	Cyanide recovery from thiocyanate by ozonation of mining effluent B. Heiniger, L. De Franceschi, A. Murillo (Switzerland)
9h30-9h50	Wanhua, from lab tests to full scale plant L. Fan, L. de Franceschi, S. Foucher, B. Heiniger, C. Ji, M. Wang, K. Wasiak, J. Yu (China, Switzerland)
9h50-10h10	Hard COD removal in textile dye effluent with a 2 stage AOP treatment applying ozone first followed by ozone/hydrogen peroxide B. Heiniger, L. De Franceschi (Switzerland)
10h30-11h00	Coffee break
11h00-11h20	Advanced ozone oxidation - proven solution to meet stringent effluent standards R. Liu, C.Q. Lin, J. Wang, T. Bao (China)
11h20-11h40	Thermal vent ozone destructor technology using heat recovery process improves resistance to harsh process and operating conditions C. Huynh, W. Uttinger, E. Aubin, H. Fellmann (Switzerland)
11h40-12h00	Importance of feed gas quality for ozone generation N. Brueggemann, R. Fiekens, M. Salvermoser, L. Zhou (Germany)
12h00-12h20	Prediction of Shallow Water Flow in Confluence Channel Using Lattice Boltzmann Method Q.-Y. Yang, J. W.-Z. Lu (Hong Kong SAR)
12h20	Lunch
14h00	Session 4. Ozone, Medecine and Health
14h00-15h00	Ozone in Medicine - State of the Art. Scientific Background, Clinical Evaluation and Evidence Classification R. Viebahn-Hänsler (Germany)
15h00-15h20	Health assessment and study on consumption of ozonated water – A 3-year case study on mouse G. Y S Chan, Z. M. Chen (China)
15h30-16h00	Coffee break
16h00-17h00	Highlights by the IOA Engineering Group M. Roustan, S. Baig (France)
17h00-17h30	Conclusions

Thursday 7 December 2017

9h00-17h00 Full day Technical Visit