



Rimini Italy / 7* - 10* november

Microsco del Anchiento del Branch del Tentro del Milher - Comel - Converzi Milariani Archivo del Contro - Risposi Converzi Milhori Milhori Converzi Milhori Converzi Milhori Converzi Milhori Converzi Milhori Milhori Milhori Milhori Converzi Milhori Milh

From 8th to 9th November 2007

14:30- 13:30, Places: Diotallevi 1 room (hall South)

International Symposium "Advanced Water Treatment with UV Technologies: from R&D to Reactor Design and Validation"

Organized by Trojan Technologies Italia

With the patronage of IUVA (International Ultra-Violet Association), ANDIS (Italian Association of Environmental&Sanitary Engineering), AIDIC (Italian Association of Chemical Engineering) and AMGA Foundation

Over the last decade, the use of UV radiation for wastewater treatment has led to numerous new applications emerging, including the oxidation of environmental micropollutants, inactivation of emerging pathogens, disinfection of wastewater with high suspended solid content, treatment of process water and tertiary disinfection with a view to re-use.

This initiative intends gathering the most significant research experiences at Italian and international level, by means of the presentation of important case studies. The workshop is organized in two complementary sessions: The first intends illustrating the principles and potential applications of the UV process, the second aims to illustrate concrete experiences on demo and/or full-scale, in which particular attention will be paid to technical-management problems.

The international symposium therefore intends combining aspects of an academic training, study and research nature with normative, technical and management aspects. It therefore addresses a wide public: university lecturers and researchers, experts in the sector, multi-utility companies and control agencies, companies, professionals and the sector 's trade/industry members.

Participation in the workshop is free of charge. However, pre-registration is necessary via e-mail (ecomondoUV@trojanuv.com), in which applicants must show the name of the company or organization they belong to, the number of people interested in the event and contact details for future correspondence.

Opening

Luigi Nicolais - Minister for the Reforms and Innovations in the Public Administration (to be confirmed)

Coordinator:

Domenico SANTORO - Trojan Technologies (Canada)

Thursday november 8th 2007 2.30-6.30pm

1st Session: Principles, Reactor Design and Validation Chairpersons
Carlo Callivianaralli - University of Bressia (Italy)

Carlo Collivignarelli – University of Brescia (Italy) Rick Sakaji - EBM Utility District, California (USA) Michael Sasges - Trojan Technologies (Canada)

2.30 - 2.40pm opening

Speeches

2:40 - 3.00pm Ted Mao - Trojan Technologies (Canada) The role of Research and Development in the UV industry

3.00 - 3.20pm Rossella Briancesco - Higher Institute of Health (Italy)





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Microbial Health Risk during Water Disinfection Treatments

3.20 - 3.40pm Rick Sakaji, EBM Utility District, California (USA) The Use of UV in California for Recycled Water

3.40 - 4.00pm Volker Adam - Heraeus NobleLight (Germany)
UV-Lamps for Disinfection and Advanced Water Oxidation - Lamp Types, Technologies and Applications

4.00-4.20pm coffee break

4.20-4.40pm Dario Falsanisi – Polytechnic of Bari (Italy)
The role of suspended solids during advanced disinfection of municipal wastewater

4.40-5.00pm Brian Petri, Trojan Technologies (Canada) UV Validation and Reactor Design

5.00pm - 5.20pm Domenico Santoro - Trojan Technologies (Canada)
Advanced Modelling Techniques for UV reactors: CFD Applications for UV/Teflon Reactor Optimization

5.20 - 5.40pm Ytzhak Rozenberg - Atlantium Technologies (Israel) Characterization & Validation Of A Unique Reactor Design By Lagrangian Actinometry Using Dyed Microspheres

5.40 - 6.00pm Round Table and Conclusions

Friday november 9th 2007 9.30am-1.30pm

2nd Session: Advanced and Emerging Applications
Chairpersons
Lorenzo Liberti - Politecnico di Bari, Taranto (Italy)
Hugo de Lasa - University of Western Ontario, London (Canada)
Ted Mao - Trojan Technologies (Canada)

9.30 – 9.40am opening Speeches 9.40 - 10.00am Sabrina Sorlini - University of Brescia (Italy) UV based AOPs in drinking water

10.00 - 10.20am Claudio Lubello - University of Florence (Italy)
Photolysis of Peracetic Acid: Radical Formation Mechanism and Examples of Application

10.20 - 10.40am Marc-Oliver Buffle - Trojan Technologies (Italy)
The Use of UV/H2O2 to Accomplish Multiple Treatment Objectives: the Example of Wastewater Reuse

10.40-11.00am Bram Martijn - PWN Water Supply Company North Holland (The Netherlands) UV/H2O2 application for organic contaminant control in drinking water treatment: the Dutch Experience

11.00-11.30am coffee break

11.30-11.50am Hugo De Lasa, University of Western Ontario (Canada) Photocatalytic Reactor Efficiency Evaluations for the Complete Span of Reaction Times

11.50 - 12.10am Marco Stoller - University of Rome (Italy)





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Organic Matter Reduction in an Olive Vegetation Waste Water by Photocatalysis With Titanium Dioxide Nanoparticles

12.10 - 12.30am Jeremy Meier - Severn Trent Services (UK) Microwave UV: Electrodeless UV Disinfection

12.30 - 12.50am Giorgio Temporelli - S.I.T.A. (Italy) Control of Combined Chlorine with UV Technologies for Swimming Pool Disinfection

12.50am - 1.10pm Gian Maria Colonna - Stazione Sperimentale della Seta Advanced Oxidation Processes and Bio-Treatments for Water Recycling in the Textile Industry

1.10 – 1.30pm Round Table and Conclusions