



NANOWAT



Diffusion of nanotechnology based devices for water treatment and recycling

www.nanowat.eu

International Conference

WATER USE AND RE-USE

17-18 June, 2015

University of Basilicata – Potenza, Italy

Aula Magna Via N. Sauro 85

Second announcement

Partnership



AIM OF THE CONFERENCE

In the last few years, water scarcity has significantly increased, especially in the countries bordering the Mediterranean, due to natural and anthropogenic factors such as highly uneven temporal and spatial distribution of precipitations, growing populations, increasing water demand for agriculture, industry, and population personal use, and the widespread contamination of water resources by a variety of organic and inorganic contaminants.

Partial or complete closure of the water cycle is an essential part to its sustainability, and its reuse should be considered. As far as the ecological and health risk are concerned, the necessity to develop cheap, compact and efficient technologies must be undertaken.

Based on current and previous studies, new technologies for water remediation and recycling in different real environments have been proposed.

In the frame of the NANOWAT project, funded by the European Union through the ENPI-CBC-MED program, an International Conference is organized, aiming at the presentation and diffusion of final results obtained in the field of advanced technologies in water treatment processes.

The project topic can be summarized as “New challenges in water cleaning and recycling: needs, experimentation and future prospective in Mediterranean Countries”.

Project results depict two integrated approaches realized as pilot devices:

“Water purification and recycling by innovative filtration technologies”

and

“Further water purification by solar photo-catalysis”.

During this event the challenges of water reuse practices will be discussed with regard to regulation, advanced devices for water treatment and social acceptability.

Moreover, a new technology based on SuperCritical Water Oxidation (SCWO) for wastewater valorization will be presented and discussed aiming at the extension of the process to solid waste destruction without producing harmful substances.

The conference is open to private and public agencies dealing with any issue related to water industry, wastewater, and solid wastes.

RELEVANT INFORMATION

The conference will be held in the Aula Magna of University of Basilicata on 17- 18 of June 2015. Address: Via Nazario Sauro 85, Potenza, Italy.

<https://www.google.com/maps/place/Via+Nazario+Sauro,+85,+85100+Potenza,+Italy/@40.6346046,15.8062719,1200m/data=!3m1!1e3!4m2!3m1!1s0x1338e2f2e896a49f:0xbd7b64bccdb5006>

The conference attendance is free of charge; however, pre-inscription is needed by sending an e-mail to Laura Scrano, e-mail laura.scrano@unibas.it, subject: International conference NANOWAT

Phone +39 0971 205231 - Fax +39 0971 206226

Official language: English (simultaneous translation is available).

A certificate of attendance will be provided at the end of the conference.

With the collaboration of:

- **GRIFA**, The Italian Research Group on Pesticides and Environment
- **EXO**, The Consortium among Regional and Italian National Companies for Research Development
- **ABACUS**, Foundation for Research and Innovation, Italy
- **AL-QUDS** University, Palestine
- **TECNOPARCO** Valbasento, Italy
- **PROMES-CNRS**, Perpignan, France



GRIFA



ORGANISMO
DI RICERCA



FONDAZIONE
ABACUS



CONFERENCE SCHEDULE

Wednesday 17	
9:00 - 9:30	Prof. Aurelia Sole (The Rector of Basilicata's University): <i>Welcome Remarks</i>
9:30 - 10:00	Prof. Sabino A. Bufo (University of Basilicata): <i>Presentation of NANOWAT project</i>
10:00 - 10:45	Prof. Shlomo Nir (Hebrew University of Jerusalem) and Dr. Tomás Undabeytia (CSIC-IRNAS-Seville): <i>Water purification and recycling by innovative filtration technologies</i>
10:45 - 11:30	Prof. Serge Chiron (University of Montpellier-CNRS) and Dr Monica Brienza (CNRS-Promes-Perpignan): <i>Further water purification by solar photo-catalysis</i>
11:30 - 12:00	<i>coffee break</i>
12:00 - 12:30	Dr. Inge Keymeulen (Joint Technical Secretariat - ENPI CBC Med Programme): <i>Presentation of ENI CBC Med Programme 2014 - 2020</i>
12:30 - 13:00	Prof. Alberto Servida (University of Genoa): <i>Super-critical Water as a reaction environment for future developments</i>
13:00 - 13:30	Dr. Emilio D'Alessandro (RDPower S.r.l) and Dr Sergio Carrera (Superfluidi S.r.l.): <i>Technological advances in SCWO application: the Italian experience</i>
13:30 - 14:45	<i>Lunch and coffee</i>
14:45 - 15:30	Dr. John Follin (General Atomics - Advanced Chemical Processes – S. Diego, USA): <i>SCWO technology applications in USA</i>
15:30 - 16:15	Dr. Riccardo Calvi (SIAD): <i>SCWO plants in Europe</i>
16:15 - 16:30	Arch. Antonio Rivero (Vice-president of International Union of Architects - IUA): <i>Approach of Architecture to Nature</i>
16:30 - 17:20	Communications from Authorities: <i>A political vision of the treated themes</i>
17:20 - 17:30	Prof. Sabino A. Bufo - <i>First day concluding remarks</i>
<i>Afternoon delight: local sweets and savouries with drinks</i>	

Thursday 18	
9:30 - 10:10	<p>Research presentations:</p> <p>Prof. Rafik Karaman (Al-Quds University, Palestine): <i>Wastewater, stability and removal of commonly used drugs</i></p> <p>Dr. Samer Kalaf (<i>Ph.D.</i> student at UNIBAS): <i>Photocatalytic degradation of pharmaceuticals and pesticides in water using TiO₂ supported on glass tubes</i></p>
10:10 - 10:30	<i>coffee break</i>
10:30 - 13:00	Round table on social and political acceptance of innovations (National and Regional Authorities; Water Agencies; Waste Treatment Companies; Social and Sanitary Agencies)
<i>Conference closure</i>	
13:15	<i>Leave-taking lunch and coffee</i>