

# International Conference

on **Xenobiotics** in the  
Urban Water Cycle

## XENOWAC 2009

11 - 13 March, 2009

Intercontinental

Aphrodite Hills Resort Hotel

Paphos, Cyprus

### Call For Papers

[www.xenowac2009.com](http://www.xenowac2009.com)





# ORGANISERS



University of Cyprus



The Swedish Research Council Formas



TECHNISCHE UNIVERSITÄT WIEN  
VIENNA UNIVERSITY OF TECHNOLOGY

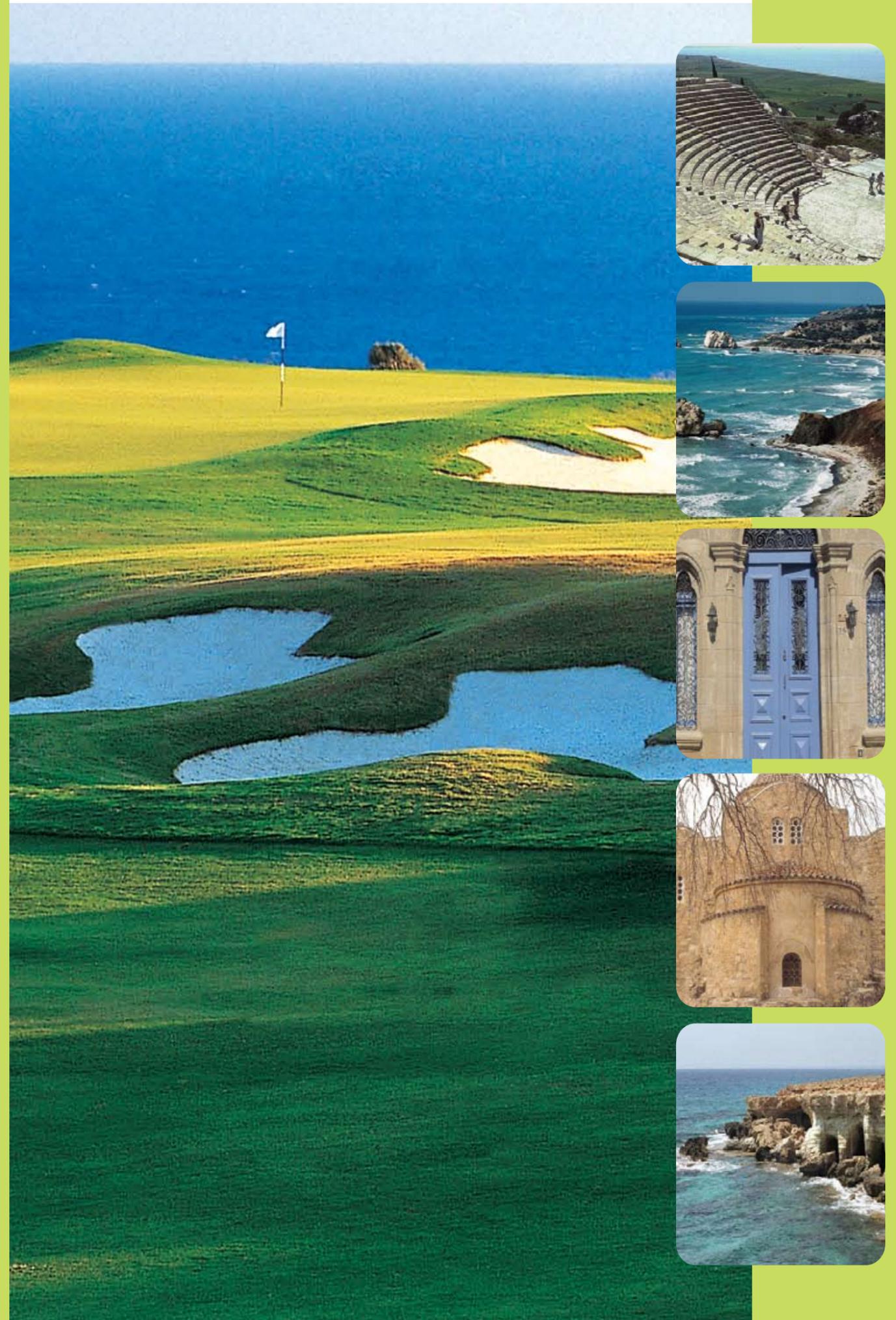


Instit "Jožef Stefan", Ljubljana, Slovenija

**eawag**  
aquatic research ooc



FACULDADE DE CIÊNCIAS E TECNOLOGIA  
UNIVERSIDADE NOVA DE LISBOA



## CONFERENCE BACKGROUND

This Conference is organized in the framework of the European Commission Cost Action 636 Xenobiotics in the Urban Water Cycle.

Xenobiotics (such as heavy metals, metalloids and organic compounds) are of rising concern in the urban water cycle. In the past, water supply, urban drainage and wastewater treatment systems were designed primarily to solve conventional problems associated with potable water supply, flood prevention, and sanitation. As a result, the focus has traditionally been on 'conventional' pollutant parameters, such as BOD, COD, N, P, SS and pathogenic micro-organisms. Nowadays, however, a multitude of new contaminants have increasingly attracted the concern of scientists and the public. Many of these xenobiotics can be found throughout the whole urban water cycle, and the need for an integrated understanding of the sources, flow paths, fate (transport, treatment efficiency, natural attenuation) and impacts of these substances on both humans and ecosystems are now widely acknowledged.

There are numerous sources of xenobiotics in the urban water systems. For example, chemical pollution in stormwater and wastewater may be derived from atmospheric washout, erosion of building materials, traffic emissions, pesticide applications, industrial emissions, and the use of household chemicals, personal care products and pharmaceuticals. Moreover, foreseeable future increases in the reuse and recycling of rainwater and wastewater for industrial and domestic non-potable purposes may further increase potential exposure to xenobiotics. Innovative approaches are therefore needed to address the presence and potential effects of these pollutants in the urban water cycle. Additionally, it is important to prevent or limit their discharge into surface waters where they may have negative impacts on both chemical water quality and ecological status as recognized by the EU-Water Framework Directive.

## AIMS AND THEMES

The main objective of this conference is to promote discussions of high scientific quality and high societal relevance, among a truly dynamic and diverse audience. Participants of this conference will include a number of well-respected and prominent experts, as well as, young researchers and the problem owners (end-users) in the specific fields of urban water and xenobiotics. The conference will provide an international forum for exchanging state-of-the-art information, knowledge sharing, and networking, with focus on xenobiotics. Relevant research areas include the determination of sources and fluxes of xenobiotics in the water cycle, advances in chemical analysis, risk assessment methods (toxicity, estrogenicity etc.), and the use and efficiency of treatment trains for removal of xenobiotics of concern.

### The general objectives are:

- to summarize challenges and research opportunities for xenobiotics in the urban water cycle
- to share "best practices" through case studies
- to understand end-user needs and priorities
- to encourage international collaborations
- to map future research directions

## TOPICS

- Identification and control of sources and fluxes of xenobiotics
- Technical treatment methods and systems (biological, physicochemical, hybrid, new technologies; non-selective or selective) - the possibility of adapting old systems as well as implementing new technologies for xenobiotic removal - optimization of treatment strategies for total elimination of micro-pollutants.
- Impact assessment (bioassays, new tests, impact models, complex mixtures, risk analyses)
- Analytical issues - (sampling and sample preparation, innovative methods for water samples, sediments and suspended matter, identification of transformation products, quality assurance and quality control)
- Mitigation measures

## ORGANIZING COMMITTEE

<b>Kassinou, Despo</b>	University of Cyprus, <b>Cyprus</b> , (Host and Chair)
<b>Ledin, Anna</b>	The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, <b>Sweden</b> / Technical University of Denmark, <b>Denmark</b>
<b>Kreuzinger, Norbert</b>	Technische Universität Wien, <b>Austria</b>
<b>Heath, Ester</b>	Jožef Stefan Institute, <b>Slovenia</b>
<b>Hollender, Juliane</b>	Eawag, Swiss Federal Institute of Aquatic Science and Technology, <b>Switzerland</b>
<b>Patureau, Dominique</b>	INRA-LBE, <b>France</b>
<b>Pons, Marie-Noelle</b>	CNRS - Nancy University, <b>France</b>
<b>Tomei, Maria Concetta</b>	Water Research Institute C.N.R., <b>Italy</b>
<b>Meric, Sureyya</b>	University of Salerno / University of Naples, <b>Italy</b>
<b>Reis, Maria</b>	Universidade Nova de Lisboa, <b>Portugal</b>
<b>De Wever, Heleen</b>	VITO, <b>Belgium</b>
<b>Donner, Erica</b>	Middlesex University, <b>UK</b>

## SCIENTIFIC COMMITTEE

Albanis Triantafyllos	University of Ioannina, <b>Greece</b>
Andersen, Henrik Rasmus	Technical University of Denmark, <b>Denmark</b>
Bester, Kai	University Duisburg-Essen, <b>Germany</b>
Canna Michaelidou, Stella	State General Laboratory, <b>Cyprus</b>
Carballa Arcos, Marta	Ghent University, <b>Belgium</b>
Carvalho, Gilda	Universidade Nova de Lisboa / Instituto de Biologia Experimental e Tecnológica, <b>Portugal</b>
Çeçen, Ferhan	Bogaziçi University, <b>Turkey</b>
Choubert, Jean-Marc	CEMAGREF, <b>France</b>
De Wever, Heleen	VITO, <b>Belgium</b>
Dionysiou, Dionysios	University of Cincinnati, <b>USA</b>
Eriksson, Eva	Technical University of Denmark, <b>Denmark</b>
Fatone, Francesco	University of Verona, <b>Italy</b>
Fürhacker, Maria	BOKU-University of Natural Resources and Applied Life Sciences, <b>Austria</b>
Heath, Ester	Institute Jožef Stefan, <b>Slovenia</b>
Holten Lützhøft, Hans-Christian	Technical University of Denmark, <b>Denmark</b>
Hlavinec, Petr	Technical University Brno, <b>Czech Republic</b>
Hollender Juliane	Eawag, Swiss Federal Institute of Aquatic Science and Technology, <b>Switzerland</b>
Ivancev-Tumbas, Ivana	University of Novi Sad, <b>Yugoslavia</b>
Kassinou, Despo	University of Cyprus, <b>Cyprus</b>
Kosjek, Tina	Institute Jožef Stefan, <b>Slovenia</b>
Kostarelos, Konstantinos	University of Cyprus, <b>Cyprus</b>
Kreuzinger, Norbert	Technische Universität Wien, <b>Austria</b>
Kümmerer, Klaus	University Medical Center Freiburg, <b>Germany</b>
Lambropoulou, Dimitra	University of Ioannina, <b>Greece</b>
Ledin, Anna	The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, <b>Sweden</b> - Technical University of Denmark, <b>Denmark</b>
Lema, Juan	University of Santiago de Compostela, <b>Spain</b>
Lyberatos, Gerasimos	University of Patras, <b>Greece</b>
Mantzavinou, Dionissios	Technical University of Crete, <b>Greece</b>
Meric, Sureyya	University of Salerno / University of Naples, <b>Italy</b>
Michael, Costas	University of Cyprus, <b>Cyprus</b>
Mogens, Henze	Technical University of Denmark, <b>Denmark</b>
Morgenroth, Eberhard	University of Illinois at Urbana-Champaign, <b>USA</b>
Nikolaou, Anastasia	University of Aegean, <b>Greece</b>
Pons, Marie-Noelle	CNRS - Nancy University, <b>France</b>
Petrovic, Mira	IIQAB-CSIC, <b>Spain</b>
Reis, Maria	Universidade Nova de Lisboa, <b>Portugal</b>
Revitt, Mike	Middlesex University, <b>UK</b>
Rizzo, Luigi	University of Salerno, <b>Italy</b>
Sacher, Frank	DVGW-Technologiezentrum Wasser (TZW), <b>Germany</b>
Sabbah, Isam	Research and Development Center, The Galilee Society, <b>Israel</b>
Seidl, Martin	Université Paris Est, <b>France</b>
Schmidt, Jens Ejbye	Technical University of Denmark, <b>Denmark</b>
Scholes, Lian	Middlesex University, <b>UK</b>
Slaveykova, Vera	ISTE ENAC EPFL, <b>Switzerland</b>
Soudek, Petr	IEB AS CR and RICP, <b>Czech Republic</b>
Tomei, Maria Concetta	Water Research Institute C.N.R., <b>Italy</b>
Zachariou, Maria	Water Development Department, Ministry of Agriculture, Natural Resources and Environment (R), <b>Cyprus</b>
Zwanc, Luc	Centre de Recherche Public Henri Tudor, Centre de Ressources des Technologies pour l'Environnement, <b>Luxembourg</b>

## CONFERENCE HIGHLIGHTS

### 1. KEYNOTE SPEAKERS

- Dr. Susan Richardson, U.S. Environmental Protection Agency
- Prof. Andrew J. Daugulis, Professor of Chemical Engineering and Queen's Research Chair in Biochemical and Cell Culture Engineering, Department of Chemical Engineering, Queen's University Kingston, Ontario Canada.

### 2. YOUNG SCIENTISTS' COMPETITION

In order to promote young scientists to actively participate in the conference a prize will be awarded to best research projects. Based on the full papers submitted by PhD students, 3 students will be selected to give oral presentations of their work during the opening session of the conference. The winners of this competition will be announced during an official prize ceremony at the gala dinner.

### 3. JOINT PRESENTATIONS

Joint presentations by both a scientist and an end-user showcasing the successful implementation of scientific research findings in practical applications are most welcome, as one of the main aims of the conference is to bring together a range of stakeholders in order to map current and future research needs.

## CALL FOR PAPERS

Papers and posters on any of the topics listed are invited. Prospective authors are encouraged to submit an abstract in English.

Abstracts can only be submitted via the on-line form available on the official website of the conference, [www.xenowac2009.com](http://www.xenowac2009.com) or to the email: [XENOWAC2009@topkinisis.com](mailto:XENOWAC2009@topkinisis.com).

An abstract template form can be downloaded from the conference homepage [www.xenowac2009.com](http://www.xenowac2009.com). The conference will consist of keynote lectures, young scientists' competition, joint presentations, and oral and poster presentations.

PhD students submitting a paper for the contest will have to provide the Organizing Committee with a letter of identification from their University.

All accepted papers and posters will be included in the conference proceedings. Based on a peer review process, selected contributions (including both orally-presented papers and posters) will be published after the conference in journals listed in the Science Citation Index (SCI).

## KEY DATES

July 15, 2008: Deadline for abstracts submission  
October 3, 2008: Notification of Acceptance  
December 15, 2009: Submission of full papers  
January 12, 2009: Deadline for Early Registration Fee

## REGISTRATION FEE (in euros)

	Early registration	Late registration
COST Action 636 members	350	430
Non-COST Action 636 members	400	480
Students *	250	300
Accompanying Person **	215	215

The registration fee includes conference attendance, conference proceedings book, 2 lunches, coffee breaks, welcome cocktail reception, gala dinner and airport transfers.

\* Student identification letter or student ID required.

\*\* The registration fee for accompanying person includes 2 lunches, coffee breaks, welcome cocktail reception, gala dinner and airport transfers.

Registration online is the preferred means of registration. The online registration form can be found on the conference website. For those who wish to submit their registration form by fax: +357 22869735.

## CONFERENCE VENUE

The Conference will be held at Intercontinental Aphrodite Hills Resort Hotel in Paphos set in an area of culture and tradition. With 290 luxurious guest rooms and suites, the hotel offers unprecedented golf and sea views, extensive facilities and attention to detail. <http://www.aphroditehills.com>

## ACCOMMODATION

Special rates have been granted by the conference hotel (see registration form) for the participants of the meeting. Rooms will be reserved on a 'first come first served' basis. The number of pre-booked rooms is limited. The accommodation must be pre-paid to the conference secretariat upon submission of your registration form prior to your arrival.

## LANGUAGE

English will be the official language of the conference.

## LETTER OF INVITATION

Delegates requiring a letter of invitation in order to attend the conference may write to the Conference Secretariat specifying the necessary details. Please note that this procedure aims at assisting the delegates who need to obtain a visa or permission to attend the conference. It is not an official invitation covering fees and other expenses and does not imply any financial support.

## ABOUT CYPRUS

Cyprus, a historic island, the third largest in the Mediterranean where modern travelers re-trace the footsteps of legendary figures as diverse as Alexander the Great, St. Paul, and Leonardo da Vinci.

Today, Cyprus is a modern country that effortlessly marries European culture with Ancient Greek-Roman enchantment.

You will discover a compact world of alluring beaches and fragrant mountain peaks, vineyards studded with olive trees, citrus groves, old stone villages and ancient ruins that stir the imagination.

The warm welcome of Cypriots and the unhurried pace of daily life, makes Cyprus an instant favourite of anyone who comes here.

Cyprus enjoys a Mediterranean climate with long dry summers from mid-May to mid-October and with mild winters from December to February, which are separated by short autumn and spring seasons. The average temperature in March is 14 °C.

## AIR TRAVEL

Cyprus can be reached by several major international airlines from European gateway cities. Popular gateways include London, Paris, Amsterdam, Athens, Frankfurt, Zurich, Helsinki, Rome, Tel Aviv, Dubai etc. In addition, Cyprus Airways provides regular daily flights from major European and Middle Eastern gateways. Travellers to Cyprus may enter the country only through the legal ports of entry: Larnaca and Paphos International Airports. However, most international flights arrive at Larnaca International Airport. If you need assistance with flight itineraries and fares, please contact the Conference Secretariat, Top Kinisis Travel, who will be happy to offer their expert knowledge.

## CONFERENCE SECRETARIAT

For more information please visit the conference website [www.xenowac2009.com](http://www.xenowac2009.com)

OR

Contact the **Conference Secretariat**:

### **Top Kinisis Travel**

Conference Department

2 Leonidou & Acropoleos Ave.

2007 Strovolos, Nicosia – CYPRUS

Tel.: +357 22713716

Fax: +357 22869735

E-mail: [XENOWAC2009@topkinisis.com](mailto:XENOWAC2009@topkinisis.com)

Those interested in learning more about the COST Action 636 can visit: <http://cost636xenobiotics.er.dtu.dk>