

## 1st EMCO workshop

### Analysis and removal of contaminants from wastewaters for the implementation of the Water Framework Directive (WFD)

20 - 21 October 2005, Dubrovnik, Croatia

#### REGISTRATION FORM

To be returned to Dr M. Petrovic before September 15th 2005  
(Fax: + 34 93 204 59 04, E-mail: mpeqam@cid.csic.es)

Name/First Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company/Institution: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

City: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

I confirm that I will arrange advance payment of 200 ( Ph.D. students 100) Euros to: ADECIT - ASSOCIACIO PER AL DESENVOLUPAMENT DE LA CIENCIA I TECNOLOGIA-CSIC by:

Bank transfer ☐ Cheque ☐

Bank account: 2100-0655-780200202561 Bank: LA CAIXA, Trias i Giro 11,  
E – 08034 Barcelona, Spain  
IBAN - ES70 2100-0655-780200202561

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Signature: \_\_\_\_\_

#### Organized by:

FP6 project EMCO (in collaboration with the FP6 project SWIFT-WFD)  
CSIC - Consejo Superior de Investigaciones Cientificas, Barcelona, Spain  
FKIT - Faculty of Chemical Engineering and Technologies, Zagreb, Croatia

#### Sponsored by:



## 1st EMCO workshop

### Analysis and removal of contaminants from wastewaters for the implementation of the Water Framework Directive (WFD)

20 - 21 October 2005, Dubrovnik, Croatia



#### Announcement and Call for Papers

<http://www.cid.csic.es/dubrovnik2005/home.htm>

**Deadline for registration and abstract submission: September 15th 2005**

## Key note lectures

**Topic 1.**

Legislation and policy in the field of wastewater treatment and management in the region

- Implementation of WFD and IPPC Directive by candidate countries
- Current status of treatment technologies in the region

S. Sirac, Hrvatske vode (Croatian Waters), Zagreb, Croatia

Legislation and policy of wastewater management and implementation of WFD in Croatia

I. Silajdzic, HEIS, Sarajevo, Bosnia and Herzegovina (B&H)

Transposition of WFD and IPPC Directives principles and requirements into national legislation in B&H

Lj. Rajaković, TMF, Belgrade, Serbia and Montenegro (SCG)

Current status of wastewater treatment technologies in some industrial sites of SCG

R. Rodriguez, CSIC, Sevilla, Spain

The MELIA project; A Coordinated Action aiming at fostering the mediterranean dialogue on integrated water management

**Topic 2.**

Wastewater treatment technologies

- Evaluation of advanced/innovative technologies for wastewater treatment

W. Giger, EAWAG, Duebendorf, Switzerland

Behaviour and removal of antibiotics in wastewater treatment

M. Ahel, Rudjer Boskovic Institute, Zagreb, Croatia

Removal of Aromatic Surfactants from Municipal Wastewaters – Comparison of Membrane Bioreactor and Conventional Activated Sludge Treatment

B. Kunst, Faculty of Chemical Engineering and Technology, Zagreb, Croatia

Analysis of selected pharmaceutical contaminants in waste waters and their removal by the characterised membranes

I. Mijatovic, Faculty of Food Technology and Biotechnology, Zagreb, Croatia

Application of membrane technologies and advanced oxidation for the treatment of wastewaters containing emerging contaminants

M. Petrovic, IIQAB-CSIC, Barcelona, Spain

Elimination of pharmaceuticals, surfactants and pesticides by membrane bioreactor (MBR)

## Key note lectures

**Topic 3.**

Analysis of contaminants in wastewaters - development, validation and application of advanced analytical protocols

T. Knepper, EFF, Idstein, Germany

Monitoring and fate studies of emerging contaminants in the aquatic environment

D. Barcelo, IIQAB-CSIC, Barcelona, Spain

Liquid chromatography –tandem mass spectrometry for screening and trace level quantitation of pharmaceuticals in environmental aquatic samples

**Topic 4.**

Risk assessment - new biological techniques as essential tools for the WFD implementation (in collaboration with the FP6 project SWIFT-WFD)

P.D. Hansen, Technical University Berlin, Germany

Implementation of the Water Framework Directive (FWD) and the “good ecological and good chemical status”

S.C. Michaelidou, State General Laboratory, Ministry of Health, Nicosia, Cyprus

Combined acute toxicity of pharmaceuticals in waste waters using Microtox test

T. Smital, Rudjer Boskovic Institute, Zagreb, Croatia

Inhibitors of the MultiXenobiotic Resistance (MXR) defense mechanism in aquatic environments – determination and ecotoxicological relevance

B. Piña, CSIC, Barcelona, Spain

Recombinant yeast assay (RYA) for the determination of the estrogenicity of the complex samples

R. Brix, IIQAB-CSIC, Barcelona, Spain

SWIFT-WFD interlaboratory exercise on water estrogenicity using the Recombinant Yeast Assay (RYA)

**IMPORTANT:**

**A limited number of key note lectures (30 min) and short oral presentations (20 min) can be accepted. Please send the tentative title as soon as possible. If received late the abstract will be selected for the poster session.**

## Scientific Committee

Damià Barceló, IIQAB-CSIC, Barcelona, Spain (chair)  
 Mira Petrovic, IIQAB-CSIC, Barcelona, Spain  
 Marija Kastelan-Macan, FKIT, Zagreb, Croatia  
 Alka Horvat, FKIT, Zagreb, Croatia  
 Thomas P. Knepper, EFF, Idstein, Germany  
 Marijan Ahel, Institute Rudjer Boskovic, Zagreb, Croatia

## Conference Secretariat

Dr. Mira Petrovic  
 Department of Environmental Chemistry, IIQAB-CSIC,  
 c/ Jordi Girona 18-26, 08034 Barcelona, Spain.  
 e-mail: mpeqam@cid.csic.es

## Call for Papers

Abstracts for oral (4 A4 pages) and poster presentations (1 page) should be submitted to the Secretariat before **September 15th 2005**. Abstracts of all contributing lectures will be collected in the book of abstracts which will be issued to all participants upon registration.

## About the EMCO project

**EMCO (Reduction of environmental risks, posed by Emerging Contaminants, through advanced treatment of municipal and industrial wastes) – Contract number INCO CT 2004-509188**, is a FP6 Specific Targeted Research Project funded by the Specific programme: Integrating and Strengthening the European Research Area, Activity area: Specific measures in support of international co-operation. Duration: 36 months, started in July 2004.

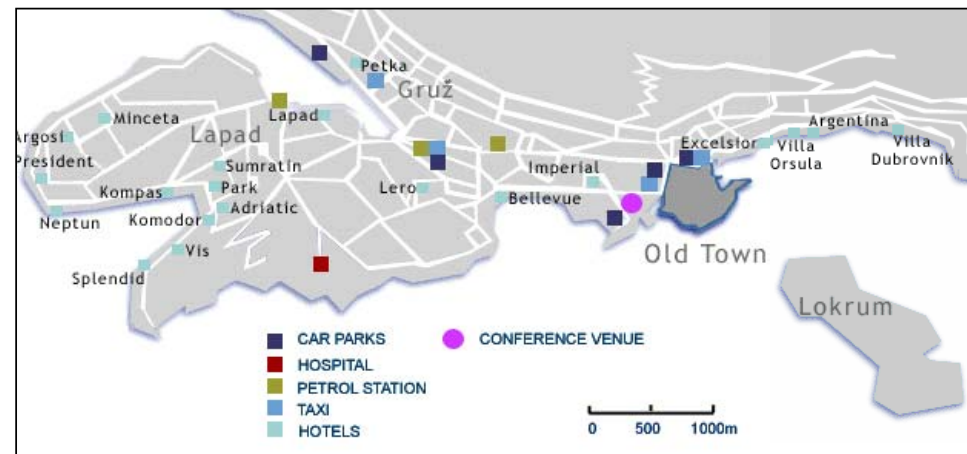
**EMCO** focuses on tracing of emerging contaminants in industrial and municipal wastewaters and on their removal by advanced water treatment technologies. Emphasis is on the application of small units for the treatment of industrial and municipal effluents with the objective to reduce environmental and health risks due to improvement of the quality of receiving surface waters.

**For more information:** [www.cid.csic.es/emco/home.htm](http://www.cid.csic.es/emco/home.htm)

**Contact:** Damià Barceló (coordinator), IIQAB-CSIC, Dep. Environmental Chemistry, c/ Jordi Girona 18-26, E-08034 Barcelona, Spain, e-mail: [dbcqam@cid.csic.es](mailto:dbcqam@cid.csic.es)

## Accommodation

**Bookings should be made directly to the hotel. Workshop's organizing committee will not arrange the accommodation for the participants.**



**Suggestion for the hotel:**

**Important note:** The availability of the hotels listed is limited, so we suggest you to reserve prior to **September 1st, 2005**.

### Hotel Argentina \*\*\*\*\*

**E-mail:** [sales@hoteli-argentina.hr](mailto:sales@hoteli-argentina.hr) **Web:** <http://www.hoteli-argentina.hr/>  
**Address:** Put F. Supila 14 - Dubrovnik **Tel:** +385 20 440-555; **Fax:** +385 20 432-524  
**RATE PER NIGHT (EUR)** Single Room from 130; Double Room from 148

### Hotel President \*\*\*\*

**Web:** <http://www.babinkuk.com>  
**Address:** Iva Dulcica 39, 20000 Dubrovnik  
**Fax:** +385 20 435 622; **Tel:** +385 20 448 245  
**PERSON PER NIGHT (EUR)** Single Room 70; Double Room 44

### Hotel Lero \*\*\*

**E-mail:** [hotel-lero@du.htnet.hr](mailto:hotel-lero@du.htnet.hr) **Web:** [www.hotel-lero.hr](http://www.hotel-lero.hr)  
**Address:** I. Vojnovica 14, 20000 Dubrovnik  
**Fax:** +385 20 332 123; **Tel:** +385 20 332 022  
**PERSON PER NIGHT (EUR)** Single Room 45; Double Room 32

### Hotel Bellevue \*\*\*

**E-mail:** [info@hotel-bellevue.hr](mailto:info@hotel-bellevue.hr) **Web:** <http://www.hotel-bellevue.hr/>  
**Address:** Pera Čingrije 7 - Dubrovnik  
**Tel:** +385 20 413-306, 413-095; **Fax:** +385 20 414-058  
**ROOM RATE PER NIGHT (EUR)** Single Room 45-75; Double Room 60-95

## GENERAL INFORMATION

### Workshop location

The Workshop will take place at the:

#### International Centre of Croatian Universities – ICCU

**Web:** <http://www.caas.unizg.hr/>

Don Frana Bulica 4  
20000 Dubrovnik

which is a part of the University of Zagreb and has a long tradition in hosting scientific events. It is situated in the vicinity of Pile, the western entrance to the old city of Dubrovnik and is at walking distance to a number of hotels.



Dubrovnik is situated on the Adriatic coast in the southern part of Croatia. It has preserved the beauty of a medieval town and its outstanding cultural and historical monuments have earned a place on UNESCO's World Heritage List.

For more information:

<http://www.croatia.hr/>

<http://www.dubrovnik-online.com>

### Travelling to Dubrovnik

Dubrovnik can be reached by plane, bus, ship or ferry.

#### By Air

Many European companies have regular flights to Zagreb and from there the Croatian national carrier, Croatia Airlines, provides regular flights to Dubrovnik. The airport is located about 18 km from the city center.

#### Airport Dubrovnik

Flights and timetables

web: [http://www.airport-dubrovnik.hr/dubrovnik\\_aerodrom\\_eng.htm](http://www.airport-dubrovnik.hr/dubrovnik_aerodrom_eng.htm)

## GENERAL INFORMATION

### Objectives and topics

- To facilitate the interaction with regional authorities and scientist in order to facilitate the implementation of the European environmental policy in the region
- To facilitate the dissemination of the results and outcomes of RTD projects (EMCO project and related EU projects)

### Specific topics

- Legislation and policy in the field of wastewater treatment and management in the region - Implementation of **WFD** and **IPPC** Directive by candidate countries
- Wastewater treatment technologies  
Current status of treatment technologies in the region  
Evaluation of advanced and innovative technologies for wastewater treatment (current status and barriers for their application on a wide scale)
- Analysis of contaminants in wastewaters - development, validation and application of advanced analytical protocols
- Risk assessment - new biological techniques as essential tools for the WFD implementation (in collaboration with the FP6 project **SWIFT-WFD**)

### Registration fee

#### Authors/Participants – 200 €

#### Ph.D. student (a letter from the supervisor is required) – 100 €

Fee will cover attendance to the Workshop, the book of abstract, 4 coffee breaks, two lunches and the Workshop dinner.

Payment in Euros (€), should be made in advance by either:

#### 1. Bank transfer:

Account number: 2100-0655-780200202561

Bank: LA CAIXA

Bank Address: Trias i Giro, 11 – 08034 Barcelona, Spain

Account holder: ADECYT

With the note: EMCO workshop and the name(s) of the participant(s)

#### 2. Cheque

A certified check payable to ADECYT, should be send to the Secretariat  
Please bear in mind that personal cheques cannot be accepted.

**Deadline: 15th September 2005.**