



Tutorial I

“ Analysis of pharmaceuticals using the advanced instrumental techniques “

Lecturer

Prof. Mira Petrovic, PhD

Catalan Institute for Water Studies, Spain

*Faculty of Technology, University of Novi Sad
Bulevar cara Lazara 1, Novi Sad*

**September 8th 2011
15.00-19.00**

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| 15.00-15.15 | Opening and overview of the agenda, Prof. Biljana Škrbić, Faculty of Technology, University of Novi Sad |
| 15.15-16.00 | Pharmaceuticals as environmental contaminants: sources, general environmental problems, toxic effects, levels |
| 16.00-17.00 | Target analysis of multi-class pharmaceuticals in aqueous and solid samples (surface water, wastewater, sewage sludge) using tandem and hybrid LC-MS systems |
| 17.00-17.30 | Coffee and tea break |
| 17.30-18.45 | Non-target analysis (Identification of transformation products of biotic and abiotic process - biodegradation photodegradation, AOPs) by hybrid LC-MS |
| 18.45-19.00 | Award of certificates |

About the lecturer

Prof. Mira Petrovic, PhD is the ICREA Research Professor at the Catalan Institute for Water Studies (ICRA). 1995 Ph.D. in Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia. She has participated in 11 EU projects since 1999; as project manager in 7 of them (FP5 projects EXPRESS-IMMUNOTECH and P-THREE, and FP6 projects: thematic network SEDNET, INCO projects EMCO and INNOVA-MED, and Integrated project AQUATERRA, where she was the leader of sub-project MONITOR). Currently she is the partner of FP7 ITN CSI-Environment.

She has published 114 papers in SCI journals (Hirsch Index 33); she edited 5 books and published 28 book chapters. Her main expertise is in the field of analytical environmental chemistry, specifically analysis of organic micropollutants and study of their fate and behavior in aquatic systems and during wastewater and drinking water treatment.