

Detailed Program

Monday, 29 June 2015

| Time | Title of the Talk | Speaker |
|---------------|---|---|
| 09:00 - 09:45 | Registration and Poster setup & Coffee, Tea | |
| 09:45 - 10:00 | Welcome & Introduction to EDA-EMERGE conference | Dr. Werner Brack (UFZ) |
| 10:00 - 10:30 | KEYNOTE: "Finding the needles in the haystack – Identification of emerging toxicants in complexly contaminated water resources" | Dr. Werner Brack (UFZ) |
| | Session: Emerging Pollutants: Case studies Session chairs: Meng Hu & Melis Muz | |
| 10:30 - 10:45 | Results and experience from an EU-wide monitoring programme using novel sampling, biological and chemical tools to detect emerging pollutants in surface waters | Zuzana Tousova (EI) |
| 10:45 - 11:00 | Endocrine disruption of European surface water identified using transgenic tadpoles and fish fry | Petra Spirhanzlova (WatchFrog) |
| 11:00 - 11:15 | Contributors to estrogenic activity in Finnish wastewater effluents | Pia Väitalo (Finnish Environ. Institute) |
| 11:15 - 11:30 | Personal Care Products under water scarcity: comparison of Sava and Evrotas, two completely different river basins | Jennifer Valle-Sistac (IDAEA – CSIC) |
| 11:30 - 11:45 | Emerging contaminants (UV filters, UV stabilizers, musks and benzodiazepines) monitoring in mussels and sea water from coastal regions | Marina Picot-Groz (Hydrosciences Montpellier) |
| 11:45 - 12:00 | Prioritization of nontarget compounds present in wastewater – Integrating multivariate analysis and known biotransformation reactions | Jennifer Schollee (eawag) |
| 12:00 - 13:00 | Lunch & Poster | |
| 13:00 - 13:30 | KEYNOTE: "Managing aquatic ecosystems under multiple stress" | Dr. Christian Feld (Uni Duisburg-Essen) |
| 13:45 - 14:15 | Bus transfer for participants of excursion | |
| 14:30 - 18:00 | Guided excursion to the alluvial forest of Leipzig: Information on typical species, anthropogenic influences and contaminations | Franka Seidel (Auwaldstation Leipzig); Anna Herkelrath (University Leipzig); Hans Dieter Kasperidus (UFZ) |
| 18:15 - 18:45 | Bus transfer to the main station (city center) and venue of conference | |

Tuesday, 30 June 2015

| Time | Session/Title of the Talk | Speaker |
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| 09:00 - 09:30 | KEYNOTE: "Emerging approaches for solution-focused pollution impact reduction" | Dr. Leo Posthuma (RIVM) |
| | Session: Effect-directed analysis Session chairs: Anita Hidasi & Zuzana Tousova | |
| 09:30 - 09:45 | Effect-directed analysis of surface and wastewater by LCxLC fractionation, an acetylcholinesterase assay and high resolution mass spectrometry | Xiyu Ouyang (VU-IVM) |
| 09:45 - 10:00 | Effect-directed analysis of produced-water discharge to identify AChE inhibitors | Jean Froment (NIVA) |
| 10:00 - 10:15 | Estrogenic activity of different treatment stage landfill leachate: Investigations by effect-directed analysis | Laura Fuster (University of Bordeaux) |
| 10:15 - 10:30 | Novel fish-based biological tools for effect-directed analysis of endocrine disrupting chemicals | Manoj Sonavane (INERIS) |
| 10:30 - 11:00 | Coffee & Networking | |
| | Session: Emerging pollutants - new approaches for analysis Session chairs: Ana Catarina Almeida & Jean Froment | |
| 11:00 - 11:15 | Validation of a hybrid sample preparation technique for combined broad chemical analysis and in vitro toxicity assessment of organic emerging pollutants in source waters. | Victoria Osorio Torrens (KWR) |
| 11:15 - 11:30 | Diagnostic derivatization as a tool for compound class-specific structure elucidation: Bitterfeld case study | Melis Muz (UFZ) |
| 11:30 - 11:45 | LC-HRMS approaches for detection of relevant transformations of polar compounds in real-world environment | Bozo Zonja (IDAEA – CSIC) |
| 11:45 - 12:00 | Pharmaceuticals degradation – Are transformation products relevant? | Jasper Ojogoro (Brunel University London) |
| 12:00 - 13:00 | Lunch & Poster | |
| | Session: Multiple stressors in aquatic ecosystems Session chairs: Maja Kuzmanovic & Victoria Osorio Torrens | |
| 13:00 - 13:15 | How multiple stressors modulate the functioning of Mediterranean rivers; a PhD Thesis dedicated to a better understanding of these cocktails | Ibon Aristi (University of the Basque Country) |
| 13:15 - 13:30 | Aquatic macroinvertebrate drift following the combined stressors of hydropeaking & thermopeaking in experimental channels | Lisa Schülting (BOKU University) |
| 13:30 - 13:45 | Combined effects of the freshwater salinization and environmental contaminants on <i>Daphnia magna</i> | Olga Popova (Masaryk University, RECETOX) |
| 13:45 - 14:00 | Decoding influence of multiple stressor through microsatellite: Holtemme River as a case of study | Pedro Inostroza (UFZ) |
| 14:00 - 14:15 | Short Break | |
| 14:15 - 14:30 | Can aquatic macrophytes be used to identify relevant environmental mixtures of pollutants and to detect their in situ effects under multi-stress conditions? | Maja Novkovic (University of Novi Sad) |
| 14:30 - 14:45 | Effects of warming, water depth and residence time on grazer-controlled eutrophication in rivers | Jose Ricardo Ruiz Albizuri (UFZ) |
| 14:45 - 15:00 | Role of point sources, land use and hydromorphology in predicting water chemistry and macroinvertebrate metrics in streams | Martin Hroch (Masaryk University, RECETOX) |
| 15:00 - 15:30 | Coffee & Networking | |
| 15:30 - 16:00 | Poster spot light Liza-Marie Beckers: poster: 1; Vince Kaandorp: poster 11; Anita Hidasi: poster: 18; Ana Catarina Almeida: poster 38; Carina Almeida: poster 40 | Moderator: Denise Kurth (UFZ) |

Tuesday, 30 June 2015

| Session: Career opportunities for environmental scientists Moderator: Dr. Werner Brack | | |
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| 16:00 - 16:20 | Alternative Career perspectives for life and environmental scientists | Johanna Grübler (ACADEMICS) |
| 16:20 - 16:40 | Career in research | Dr. Lukas Wick (UFZ) |
| 16:40 - 17:00 | Career in industry | Dr. Marlies Bergheim (HENKEL) |
| 17:00 - 17:20 | Career in regulatory | Dr. Adolf Eisenträger (UBA) |
| 17:20 - 17:35 | Funding of the European Commission | Annette Schmidt (UFZ) |
| 17:35 - 17:55 | Career in Consulting | Dr. Anja Coors (ECT) |
| 17:55 - 18:15 | Discussion panel | |
| 18:30 - 23:00 | Poster, BBQ and music | |

Wednesday, 1 July 2015

| Time | Title of the Talk | Speaker |
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| 09:00 - 09:30 | KEYNOTE: "From environmental monitoring to integrated modeling in a global change context: Limits, chances and perspectives from the GLOBAQUA project" | Prof. Ralf Ludwig (LMU) |
| Session: "EDA-EMERGE opinion paper" | | |
| 09:30 - 10:30 | Discussion panel for "EDA-EMERGE opinion paper" | Moderation: Stefanie Rotter & Werner Brack (UFZ) |
| 10:30 - 11:00 | Coffee & Networking | |
| 11:00 - 11:45 | Discussion panel for "EDA-EMERGE opinion paper" | Moderation: Stefanie Rotter & Werner Brack (UFZ) |
| 11:45 - 12:00 | Closing of the Conference | Dr. Werner Brack (UFZ) |
| 12:00 - 13:00 | Lunch & Poster takedown | |

Poster Program

29 June to 1 July 2015

| No. | Poster title | Presenter |
|----------------------------|---|---|
| Pharmaceuticals | | |
| 1 | Screening for pharmaceuticals and other emerging pollutants in sediments of major European estuaries | Liza-Marie Beckers (UFZ) |
| 2 | Pharmaceutical occurrence in two Mediterranean coastal sites impacted by treated wastewater outfall. | Coline Spinau (Hydrosciences Montpellier) |
| 3 | Ecological risks of home and personal care products in the riverine environment of a rural region in south china without domestic wastewater treatment facilities | Naisheng Zhang (Wageningen University) |
| 4 | Presence and distribution of diclofenac, estradiol and ethinylestradiol involved in first watch list to include them as priority substances in Manzanares River | Cristina Corpa (Instituto de Salud Carlos III) |
| 5 | Removal of Pharmaceutical Active Compounds by Constructed Wetland Systems – a sustainable phytoremediation technique? | Ana Isabel Machado (Higher Institute of Agronomy) |
| Emerging pollutants | | |
| 6 | Anthropogenic gadolinium: environmental concentrations in Lorraine region (France) and effects on living organisms | Emilie Perrat (LIEC) |
| 7 | Occurrence of surfactants in a wastewater and agriculturally impacted river | Lisa-Marie Krauskopf (UFZ) |
| 8 | Analysis of organic micropollutants in freshwater invertebrates | Anna-Jorina Wicht (UFZ) |
| 9 | Comparison of PCI- and NCI-MS/MS (GC) and application of LVI for the analysis of synthetic pyrethroids in aquatic sediments | Lena Schinkel (UFZ) |
| 10 | Optimised Decision Making Framework for Wastewater Treatment Plant Upgrade and Operation | Philipp Michel (TU Munich) |
| 11 | Characterizing groundwater contribution to ecologically valuable lowland streams using Travel Time Distribution | Vince Kaandorp (Deltares) |
| 12 | Cyanobacterial peptides and their role in modulation of mammalian innate immunity | Zdena Moosova (Masaryk University, RECETOX) |
| 13 | Cyanobacteria and algae as a potential source of retinoid-like compounds into aquatic environment | Eliska Sychrova (Masaryk University, RECETOX) |
| 14 | Behaviour of silver nanoparticles in aquatic indoor microcosms | Claus Wasmuth (IME) |
| 15 | Identification of metabolites from in vivo chlordecone degradation | Marion Chevallier (CEA) |
| Environmental Omics | | |
| 16 | Development of a metabolomic approach to investigate human pharmaceuticals exposure and effects in aquatic organisms | Bénilde Bonnefille (Hydrosciences Montpellier) |
| 17 | Multiple metabolomics approach to investigate surface water toxicity in the freshwater snail <i>Lymnaea stagnalis</i> | Sara Tufi (IVM-VU) |
| 18 | Proteomics and metabolomics to find biomarkers of synthetic glucocorticoid exposure in zebrafish (<i>Danio rerio</i>) embryos | Anita Hidasi (eawag) |

| | Bioassays | |
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| 19 | A new approach to assess sediments toxicity with Danio rerio embryos | Riccardo Massei (UFZ) |
| 20 | Genotoxicity biotesting strategy integrating cell-based and zebrafish embryo bioassays | Carolina Di Paolo (RWTH Aachen University) |
| 21 | Biotesting strategy for antiandrogenicity assessment in EDA using cell-based bioassays | Carolina Di Paolo (RWTH Aachen University) |
| 22 | Functional characterization of recombinant zebrafish glutathione-S-transferase theta 2 (Gstt2) and its sensitivity to environmental toxicants | Biljana Ivkovic (University of Novi Sad) |
| 23 | Characterization of new transgenic zebrafish cyp11c1-GFP line: a potentially relevant model to assess the effects of Endocrine Active Substances on corticosteroidogenesis | Clementine Garoche (INERIS) |
| 24 | Use of transgenic zebrafish models to study the endocrine effects of natural and synthetic progestins | Clementine Garoche (INERIS) |
| 25 | Is bioaccumulation in zebrafish embryos purely log Kow-regulated? | Denise Kurth (UFZ) |
| 26 | Evidence of cross-talk between AhR and ER pathways in human and zebrafish reporter cell lines used for estrogenicity screening | Hélène Serra (INERIS) |
| 27 | Development of a T4-TTR binding assay for high throughput screening of thyroid hormone disrupters in the environment. | Xiyu Ouyang (IVM-VU) |
| 28 | In vitro tests provide new (eco)toxicological information on old priority substances – example diuron | Dina Tenji (University of Novi Sad) |
| 29 | Effect-directed analysis of a Morava River water sample to assess fish-specific estrogenic compounds using zebrafish-based bioassays | Manoj Sonavane (INERIS) |
| 30 | Higher-tier effect directed analysis of a wastewater-impacted river using Chemcatcher passive samplers | Jennifer Schollee (eawag) |
| 31 | Alcohol, coffee and cigarettes: evaluation of candidate positive control chemicals for behavioural assessment in zebrafish early life stages | Carolina Di Paolo (RWTH Aachen University) |
| 32 | Micro-fractionation in 96-well plates combined with the micro-EROD assay to identify the dioxin-like activity in environmental samples | Hongxia Xiao (RWTH Aachen University) |
| | Effect-directed analysis | |
| 33 | Effect-directed analysis of algal growth and photosystem II inhibitory effects in treated waste water using non-target screening techniques | Zuzana Tousova (EI) |
| 34 | Orthogonal and parallel LC fractionation as a time-efficient approach for effect-directed analysis | Matthias Muschket (UFZ) |
| 35 | Evaluation of integrated extraction/fractionation protocols for characterization of contaminants using effect-directed analysis | Sanja Koprivica (IRB) |
| 36 | Comparing fragmentation prediction tools for the identification of unknowns from LC-high resolution MS data | Meng Hu (UFZ) |
| | Environmental modeling | |
| 37 | Modeling the transport behavior of 16 emerging organic contaminants during soil aquifer treatment | Hang Thuy Thi Nham (University of Oldenburg) |
| 38 | Integrating modelling approach to study the relations between stressors and indicators | Carina Almeida (University of Lisbon) |
| | Multiple stressors | |
| 39 | Impact of multiple stressors on macroinvertebrate communities in Iberian rivers | Maja Kuzmanovic (IDAEA – CSIC) |
| 40 | Combined toxicity of five priority biocides on the growth of Chlamydomonas reinhardtii | Ana Almeida (NIVA) |
| 41 | Combined effect of nitrate and herbicide exposure on the new OECD test organism Myriophyllum spicatum - consequences for aquatic ecosystems? | Andréina Nuttens (University of Lorraine) |