

AEHMS

7th International Conference

Programme

Conference agenda

Monday, September 15th

08:30 - Inscription and welcome

09:30 - Vallentyne lecture: Mohiuddin Munawar, *The invasion of exotic species: a global threat to the integrity of food webs and fisheries of the north american great lakes*

10:05 - Coffee break

Physical, chemical and biological determinants of ecological functioning

Session 1

- **10:35** - Gilles Billen: *The biogeochemical functioning of hydrosystems as determined by human and natural processes in the watershed (Keynote)*
- **11:10** - Alan Johnson: *Scaling in ecotoxicology: theory, evidence and research needs*
- **11:30** - Diana Slijkerman: *The TARGET project: Integrated assessment tools to gauge local functional status in river ecosystems*
- **11:50** - Aubert Michaud: *Phosphorus transfers as influenced by landscape and management of agro-ecosystem*

Poster session (12:10 - 13:00)

Lunch (13:00 - 14:00)

Session 2

- **14:00** - Jean-François Humbert: *Biological determinants of ecosystem functioning (Keynote)*
- **14:35** - Bernard Montuelle: *Assessment of the impacts of hydrological events on bacterial communities in freshwater sediment*
- **14:55** - Frédéric Garabétian: *Influence of maturation on river biofilms bacterial compartment (structure and functioning)*
- **15:15** - Sergi Sabater: *Short-term nutrient additions in oligotrophic streams: do they affect the structure and functioning of light-limited ecosystems?*
- **15:35** - Coffee break
- **16:05** - Yves Souchon: *What kind of physical habitat description could improve the ecological evaluation and restoration of streams and rivers ? (Keynote)*

- **16:40 - Helena Guasch:** *Influence of nutrient addition on the response of periphyton to toxic exposure*
- **17:00 - Juliette Tison:** *Diatom communities natural variability and anthropogenic pressure effects: the interest of hydro-ecoregions*
- **17:20 - Gaëlle Triffault-Bouchet:** *Ecotoxicological assessment of pollutant flux released from MSWI bottom ash used in road construction : an approach based on single-species tests and microcosm assays*
- **17:40 - Andrew Price:** *Is the Gulf really such as "coldspot" of biodiversity: scaling effects and comparison with the Red Sea*

End of day (18:00)

Reception

Tuesday, September 16th

Physical, chemical and biological determinants of ecological functioning

Session 3

- **09:00 - Marie-Hélène Tusseau-Vuillemin:** *Labile and bioavailable trace metal monitoring of the Seine river (France) by means of DGT : a two years- experience.*
- **09:20 - Séverine Le Faucheur:** *Dynamic variation of glutathione and phytochelatins in periphyton as a function of bioaccumulated metals*
- **09:40 - Renata Behra:** *The accumulation and effect of inorganic antimony and arsenic on the growth of *Scenedesmus vacuolatus* (Chlorophyceae).*

Advanced (bioassay) techniques and their management application

Session 1

- **10:00 - Pieter Den Besten:** *Scaling toxicity from bioassays to the ecosystem (Keynote)*
- **10:35 - Coffee break**
- **11:05 - Bernard Clément:** *Are percolates released from MSWI bottom ashes safe for lentic ecosystems ? A laboratory ecotoxicological approach based on 100-L indoor microcosms*
- **11:25 - Catherine Gourlay:** *Are Semi-Permeable Membrane Devices suitable for in situ measurements of bioavailable hydrophobic contaminants ?*
- **11:45 - Arnold V. Hallare:** *Assessing water quality in a tropical lake using zebrafish embryos : embryotoxicity and proteotoxicity tests*
- **12:05 - Clara Othoniel:** *Evaluation of the trophic status of the rivers with dominant fixed biomass : can the biofilm be used as a bioindicator?*

Lunch (12:25 - 14:00)

Session 2

- **14:00 - Marc Babut:** *Predicting effects on benthic populations: a promising way for deriving Sediment Quality Guidelines? At which conditions? (Keynote)*
- **14:35 - Virginie Ducrot:** *Contribution of an autecological approach to the development of a benthic invertebrates test battery based on biological and ecological traits of aquatic organisms.*
- **14:55 - Peimin Pu:** *Reconstruction health aquaecosystems from local to catchment*
- **15:15 - Marie-Agnès Coutellec:** *Combining individual and demogenetic endpoints for ecological risk assessment: a study in the freshwater Gastropod *Lymnaea stagnalis* exposed to toxicants*
- **15:35 - Coffee break**
- **16:05 - Hélène Roussel:** *Effect of copper on organic matter decomposition: a lotic mesocosm study*
- **16:25 - Lieven Bervoets:** *Metal accumulation and condition of transplanted zebra mussel (*Dreissena polymorpha*) in metal polluted rivers*
- **16:45 - Céline Chouteau:** *Aquatic ecosystem management : early warning systems and bioassays for pollution monitoring*

Poster session (17:05 - 18:00)

End of day (18:00)

Dinner

Wednesday, September 17th

Scientific inputs to environmental policies and management

Session 1

- **08:30 - Paul Michelet:** *The water framework directive: a common field for scientists and decision makers (Keynote)*
- **09:05 - Mark Reiss:** *Understanding Ecological Risk Constructs: Implications for Aquatic Ecosystem Assessment Communication*
- **09:30 - Robert Kent:** *Towards a Canadian Integrated Network on Aquatic Ecosystem Health Monitoring*
- **09:50 - Stéphane Stroffek:** *Use and need of biological indicators in environmental policies or management : a question of scale*

Coffee break (09:50 - 10:10)

Round table (10:10 - 13:00)

Lunch (13:00)

Poster list

Physical, chemical and biological determinants of ecological functioning

- **Myriam Amezcua-Allieri:** *Utility of benthic organisms as indicators of river health*
- **Jean-Claude Boisson:** *Periphyton functional response to road runoff regarding exposure conditions in artificial streams*
- **Virginie Bragigand:** *Presence of brominated flame retardants and triazines in French estuarine ecosystems.*
- **Rossitza Doytchinova:** *Samples conservation for the determination of EDTA speciation and total of all EDTA species prior to analysis*
- **Bernard Montuelle:** *Chemical typology and fonctionnal microbial typology in 3 alpine water courses*
- **Mohiuddin Munawar:** *Possible causes and consequences of the disappearing amphipod *Diporeia* spp. to the fisheries*
- **Fabien Olivier:** *Towards a molecular survey to characterise the nitrifying bacteria dynamics in the Seine River*
- **Stephane Pesce:** *Effects of Diuron on physiological activity and structure of natural bacteria community determined by fluorescent in situ hybridization and TTGE analysis in experimental study.*
- **Wilfried Sanchez:** *Effect of copper on oxidative stress biomarkers in three-spined stickleback (*Gasterosteus aculeatus aculeatus* L.).*
- **Alexandra Serra:** *The interaction between phosphate and the ecotoxicological response of periphyton in an agricultural watershed*
- **Guy Talercio:** *An integrated approach towards a decision support system for aquatic ecosystem management*
- **Mathieu Tilquin:** *The plant-culicine larva interactions in subalpine mosquito breeding sites: from chemical ecology to integrated control*
- **Laurence Volatier:** *Use of DGGE to examine bacterial community structure in periphytic assemblages from indoor experimental channels.*

Advanced (bioassay) techniques and their management application

- **Lucile Barthet:** *Alkaline phosphatase activity of whole-cell algae used for monitoring heavy metals in environment*
- **Mikhail Beketov:** *Use of mayflies in biomonitoring of several West Siberian rivers: integrating of field and experimental studies*
- **Marina Camusso:** *Risk assessment of lake Maggiore (N.Italy) sediments by consensus-based quality guidelines*
- **Marina Camusso:** *Trace metal availability and macroinvertebrate community in Apennine rivers: an integrated approach*
- **Thierry Caquet:** *Litter breakdown as a proposed functional endpoint in ecotoxicological risk assessment*
- **Thierry Caquet:** *Higher-tier risk assessment of fomesafen and fomesafen-nonylphenol polyethoxylate adjuvant mixture. 2. Effects on macroinvertebrate communities*
- **Thierry Caquet:** *Higher-tier risk assessment of fomesafen and fomesafen-nonylphenol polyethoxylate adjuvant mixture. 1. Fate and effects on planktonic communities*
- **Nicolas Cauzzi:** *Assessment of the ecotoxicological impacts in aquatic microcosms of dredged sediments treated or non-treated by a physico-chemical treatment.*
- **Nicolas Cauzzi:** *Impact of sediment quality on the toxicity of pyrene in aquatic microcosms.*
- **Anita Geizinger:** *Effects of heavy metals from mining wastes on biota in the Mar Menor*
- **Khalid Habbari:** *Study of wells water quality of Casablanca city (Morocco)*
- **Mark Hanson:** *The use of chitobiase activity as a rapid toxicant screening tool for aquatic invertebrates*
- **David Hohreiter:** *Using Bioassays to Define a Sediment Management Strategy*
- **Gabsoo Hwang:** *Sediment toxicity in the intertidal flat zone in the middle western coast of Korea*
- **Audrey Jumel:** *Higher-tier risk assessment of fomesafen and fomesafen-nonylphenol polyethoxylate adjuvant mixture. 3. Changes in individual performances of the snail *Lymnaea stagnalis**
- **Laurent Lagadic:** *Propagation of effects of hexachlorobenzene between levels of biological organization in outdoor pond mesocosms*
- **Laurent Lagadic:** *Multi-tiered assessment of the effects of chemical mosquito control on invertebrates in coastal wetlands of Morbihan (Brittany, France)*
- **Bernard Montuelle:** *Toxicity assessment of contaminated sediments by using bacterial and microbial tests : some conflicting results*
- **Yahia Mosleh:** *Metallothioneins induction, antioxidative response, glycogen and growth perturbations as biomarkers in *Tubifex tubifex* (Oligochaete) exposed to the fungicide, fenhexamide.*
- **Olivier Palluel:** *Antioxidant activity in juvenile rainbow trout liver using the modified Trolox Equivalent Antioxidant Capacity (TEAC) assay: development and comparison with other biomarkers of oxidative stress.*
- **Martha Romero:** *Bioaccumulation of Cu and Fe spiked in natural sediments*

- **Jean-Louis Roulier:** *Use of DGT technique to assess metals mobility and bioavailability in sediments*
- **Jacqueline Russo:** *Lysosomal fragility of hemocytes as a biomarker in the freshwater Gastropod *Lymnaea stagnalis* exposed to pesticides*
- **Maria-José Servia-Garcia:** *An in situ bioassay using *Chironomus riparius* larvae to investigate the effects of a pyrethroid insecticide in freshwater mesocosms*
- **Maria-José Servia-Garcia:** *Effects of copper on the metabolism of sugars and larval development in *Chironomus riparius* larvae*
- **Maria-José Servia-Garcia:** *Effects of short-term climatic variations on fluctuating asymmetry levels in *Chironomus riparius* larvae at a polluted site*
- **Paula Silva:** *Assessing freshwater status using an in situ shredder feeding test*
- **Paula Silva:** *Feeding post-exposure of *Hydropsyche pellucidula* as a response to different test solutions*
- **Diana Slijkerman:** *Assessing structural and functional plankton responses to carbendazim toxicity*

Scientific inputs to environmental policies and management

- **Christophe Biasini:** *A web-based tool for managing and sharing relevant information on pharmaceuticals*
- **Rémy Buzier:** *Bioavailable metals in wastewaters: DGT as a promising measurement technique*
- **Ransford Sekyi:** *A case study of artisanal gold mining impacts on aquatic environments in Ghana*
- **Virginie Tilot:** *Video monitoring as a rapid assessment method for health assessment of coral communities in the Gulf of Aqaba, Red Sea*