



Ohio Valley Regional Chapter of SETAC

Society of Environmental Toxicology and Chemistry

Quarterly Newsletter – Issue No. 5: Fall 2006

Rob Reash - Editor

*SETAC 27th Annual Meeting,
Montreal, Canada November 5 –*

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(apologies for the crude grammar!)

This year’s meeting theme is
“Global Environment and
Sustainability – Sound Science in a
World of Diversity”

All information on this year’s
meeting can be found at ►

<http://www.montreal.setac.org/home.asp>

Item of Note → Special Symposia

I think you would agree that there is
“something for everyone” in this list of
planned special symposia:

Exposure of the beluga whale to
contaminants and toxic effects

Predicting ecological effects of
pollutants from biomarkers and “-
omic” responses

Invertebrate biomarkers: applications
and limitations in the assessment of
aquatic pollution

Metals in the environment: speciation,
geochemistry and bioavailability

Fate and transport of emerging
contaminants in aqueous systems

☺ And, also note.....

On Thursday (9 November), a special 1-day session, “Research Needs for Water Quality Protection in Regulatory Programs: Regional and National Trends”, will be held. This session will address how science influences the development of water quality regulations in the U.S., Canada, and the European Union.

OVC SETAC Members Giving
Presentations at SETAC Montreal:
 (“stop by and say hi!”)

“Possible approaches for implementation of a tissue-based chronic criterion for selenium”. *Poster presentation by Dennis McIntyre, Tyler Linton, and Charley Delos.*

Session: “Metals in the Environment: Regulatory and Risk Concerns”, Thursday.

“Field-based assessment of aluminum impacts on populations”. *Poster presented by Manual Pacheco, Tyler Linton, and Dennis McIntyre.* Session: Metals in the Environment: Regulatory and Risk Concerns”, Thursday.

“Development of a copper standard for Michigan’s Upper Peninsula waters – updated and revisited”. *Platform talk presented by Tyler Linton, Will Clement, et*



al. Session: "Metals in the Environment: Mechanisms and Advancing the BLM – Part 2", Thursday

"Probabilistic exposure distributions developed for the uptake of triclosan by representative avian species in freshwater aquatic environments". Poster presentation by Katrina Leigh et al. Session: "Challenges and Innovation in the Evaluation of Birds in Ecological Risk", Thursday

"Aquatic risk assessment for triclosan". Platform presentation by Jennifer Lawton and Katrina Leigh. Session: "Weight of Evidence in Support of Ecological Risk Assessment: Lines of Evidence", Monday

"Inter-laboratory comparisons of PCB analyses in sediment: Implications for site characterization and risk assessment". Poster presentation by and Katrina Leigh. Session: Sediment Contamination in Rivers and Harbors", Thursday

Ohio Valley Chapter meeting at SETAC Montreal: of course we will have our business meeting and (just as important) social gathering at SETAC Montreal. Here's the details:

when: Wednesday (8 November)
@ 5:00 pm
where: Conference Room __??__

► Ohio Valley Chapter New Website

Please note that our Chapters web site has changed. All of the information concerning Ohio Valley Chapter is now placed on the SETAC North American server. So, note the new website!!
<http://www.setac.org/ohiovalley/>

Recent publications and presentations authored by SETAC OVC members:

Fuchsman, P.C., T. R. Barber, J.C. Lawton, and K. B. Leigh. 2006. An evaluation of cause-effect relationships between polychlorinated biphenyl concentrations and sediment toxicity to benthic invertebrates. *Environmental Toxicology and Chemistry* 25: 2601-2612.

Reash, R.J., T.W. Lohner, and K.V. Wood. 2006. Selenium and other trace metals in fish inhabiting a fly ash stream: implications for regulatory tissue thresholds. *Environmental Pollution* 142: 397-408.

"Mercury and other trace metals in lichen samples collected near a power plant cluster: assessment of near-field local deposition", Presented by Rob Reash, Ray Showman, Mike Bock, and Kristen Lohman. 8th International Conference on Mercury as a Global Pollutant, Madison, WI, August 2006.

"Study design considerations in monitoring mercury levels in aquatic biota: distinguishing real trends from normal variability", presented by Rob Reash. 8th International Conference on Mercury as a Global Pollutant.

2007 OVC Dues – Don't Wait!

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 With suggestions that year 2006 is coming to a close, join OVC SETAC now. You have two convenient options to do this:

1. access the "Join OVC" web site <http://www.setac.org/ohiovalley/OVCMember-shipApplication.pdf>



2. when registering for the SETAC Montreal conference, add your OVC membership to your total charges→  
<http://montreal.setac.org/registration/register.asp>



**Your OVC Board Members**

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**BOARD MEMBER**

**Felicia Armstrong** (Youngstown State University) –

**Board Member**



**Sarah Sellman** (Ohio State University)

**Student Board Member**

**Board Member Profile: Katrina Leigh**

I received a M.S. degree in Zoology from Miami University in Oxford, Ohio. My research focused on the field of physiological ecology, specifically the freezing tolerance of the wood frog (*Rana sylvatica*). Following graduation, I instructed an introductory environmental biology course at the Middletown campus of Miami University. I then joined a toxicology research team at Wright State University, primarily investigating the metabolism of perfluorinated compounds for the U.S. Air Force. After six years in toxicology research, I moved to environmental consulting. I am currently a senior scientist in the ecology and sediment management practice at ENVIRON International Corporation, specializing in ecological risk assessment (with an emphasis on mammals and birds), sediment and water quality evaluation and management, aquatic and terrestrial toxicology, evaluation of biological community quality, toxicity testing, bioaccumulation of environmental contaminants, and ecotoxicology. I have authored and co-authored several peer-reviewed manuscripts, as well as presented investigation findings at numerous scientific meetings.

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## New books from SETAC!

### 2005

Working Environment in Life-Cycle Assessment  
Life-Cycle Assessment of Metals: Issues and Research Directions  
Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments  
Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media  
Human Pharmaceuticals: Assessing the Impacts on Aquatic Ecosystems  
Dietborne Metals Toxicity to Aquatic Organisms  
Mercury Cycling in a Wetland-Dominated Ecosystem: A Multidisciplinary Study  
Effects of Pesticides in the Field  
Atrazine in North American Surface Waters: A Probabilistic Aquatic Ecological Risk Assessment

### 2006

Perchlorate Ecotoxicology  
Natural Attenuation of Trace



Element Availability in Soils  
Estrogens and Xenoestrogens in the Aquatic Environment: An Integrated Approach for Field Monitoring and Effect Assessment  
Genomic Approaches for Cross-Species Extrapolation in Toxicology  
Assessing the Hazard of Metals and Inorganic Metal Substances in Aquatic and Terrestrial Systems  
Freshwater Bivalve Ecotoxicology  
Biological Effects of Contaminants in Marine Pelagic Ecosystems

### 2007

Relevance of Ambient Water Quality Criteria for Ephemeral and Effluent-Dependent Watercourses of the Arid Western United States  
Ecosystem Responses to Mercury Contamination: Indicators of Change  
Valuation of Ecological Resources: Integration of Ecological Risk Assessment and Socio-economics to Support Environmental Decisions  
Population-Level Risk Assessment  
Effects of Water Chemistry on Metal Toxicity  
Extrapolation Practice for Ecological Effects and Exposure  
Characterization of Chemicals  
Molecular Biology and Risk Assessment: Evaluation of the Potential Roles of Genomics in Regulatory Ecotoxicology  
New Improvement in the Aquatic Ecological Risk Assessment of Fungicidal Pesticides and Biocides