

2016 CEW POSTER SESSION SCHEDULE

Poster Sessions will take place in Salon 12. Note that posters can be put up on Monday September 26 at noon and stay up until Wednesday September 28 at 9 am. Authors are expected to remain by their posters during the Poster Sessions.

Date	Monday	Tuesday
Time	5:00-7:00 pm	5:00-6:30 pm

MONDAY SEPTEMBER 26, 2016

Salon 12, 5:00 to 7:00 pm

25th Anniversary of Canadian Environmental Effects Monitoring

1. **Student:** A novel approach to assess site fidelity and movement of small bodied fish species: Implications for environmental effects assessments
K. Hicks, M.R. Servos
2. **Student:** Life stage-specific differences in the sensitivity of rainbow trout to cadmium: a mechanistic study
K. Shekh, M. Hecker, S. Niyogi

Alternative Non-Vertebrate Test Methods for Evaluating Ecotoxicity

3. Shotgun proteomics of *Hexagenia* spp. exposed to surface waters and effluents from Toronto and Hamilton Harbour, ON
D.B. Simmons, B. Duncker, J. Sherry, P. Helm, T. Watson-Leung, R. Chong-Kit, M. Nowierski, S. Kleywegt

Current-Use Pesticide Fate and Effects in Canadian Ecosystems

4. The effects of the herbicide diquat on aquatic biota
R.L. Dalton, S.A. Robinson, C. Boutin, A. Bartlett, F.R. Pick
5. Sub-lethal effects of the neonicotinoids imidacloprid and thiamethoxam on developing sockeye salmon (*Oncorhynchus nerka*)
P. Duarte-Guterman, S. Engelking, D. Reeves, C. Antos, C. Kennedy, V. Marlatt
6. The effects of anti-sea lice therapeutants on sensitive life stages of non-target species in combination with different stressors
C. Kennedy, J. Bennett
7. Investigation on the occurrence of neonicotinoid insecticides in Ontario wastewater treatment plants
M. Nowierski, X. Zhao, S.A. Smyth, D. Morse, P. Yang, T. Fletcher

Unconventional Oil and Gas Development: Issues and Environmental Effects

8. **Student:** Investigating the mechanism of toxicity of vanadium to *Daphnia* spp.
E.G. Meina, S. Niyogi, K. Liber

Mining and the Environment

9. The effect of dispersed mine tailings on sediment microbiomes
S. Baldwin, H. Garris, J. Taylor, L. Fraser

10. An evaluation of artifactual toxicity in fathead minnow tests caused by microbes
J.R. Elphick, M.M. Lehti, G.S. Lawrence, N. Manklow
11. The Freshwater Inventory and Surveillance of Mercury (FISHg) Network: Long-term mercury monitoring in water, sediment and fish in Canadian lakes
M. Gledhill
12. Three-spined stickleback (*Gasterosteus aculeatus*) as a new ECCC vertebrate reference species for acute lethality testing of saline effluents discharged to marine environments
R. Hennessy, L.V. Vliet, L. Taylor, P. Jackman, R. Scroggins
13. *Acartia tonsa* as a new ECCC invertebrate reference species for acute lethality testing of saline effluents discharged to marine environments
R. Hennessy, L.V. Vliet, L. Taylor, R. Scroggins
14. Minimizing confounding influences in fish health environmental effects monitoring data by effectively classifying gonad maturation stages
M.D. Jaeger, C.J. Arens, T.J. Barrett, R.L. Sharpe
15. Fish health in the Alberta Athabasca oil sands: Developing baseline to assess future change
M.E. McMaster, H. Keith, G. Tetreault, J. Bennett, M. Evans, T. Clark, R. Frank, J. Parrott

Analytical Developments

16. The importance of untargeted analysis for the environmental monitoring program in the Alberta oil sands region
A.S. Pereira, J. Pretorius
17. Analysis of ethoxylated surfactants and phosphates/phosphite in hydraulic fracturing flowback and produced water by using LC-Orbitrap-MS/MS
D. Ruan

Genomics in Ecotoxicology

18. **Student:** The identification of fish cell biomarkers to detect environmental genotoxic stress
M.E. Hamilton
19. **Student:** Thyroid hormone disruption in aquatic systems affects metamorphosing tadpoles' ability to perform critical tasks such as locating food and avoiding predation
K. Jackman, N. Veldhoen, R.C. Miliano, L. Li, X. Zheng, A. Khojasteh, E.R. Hall, W.J. Parker, G. Aggelen, C.C. Helbing
20. **Student:** Endocrine disruption effects on innate immunity in *Rana* (Lithobates) *catesbeiana* tadpoles
S. Partovi, N. Veldhoen, R.C. Miliano, L. Li, X. Zheng, A. Khojasteh, E.R. Hall, W. J. Parker, G. Aggelen, C.C. Helbing

Trends in Behavioural Toxicology

21. **Student:** Zebrafish shoaling behaviour is modulated by exposure to oil sands process water
T.J. Hamilton, N. Nadolski, C. Bailey, Matthew S.
22. The impact of carbon dioxide induced freshwater acidification on zebrafish
T.J. Hamilton, D. Newton
23. Effect of silver nanoparticles on alarm response in fathead minnows (*Pimephales promelas*)
W.A. Dew, A.P. Darcy, P. Razmara, D.C. Rearick, G.G. Pyle, M.A. Xenopoulos
24. **Student:** Soil invertebrates avoidance from a hydraulic lubricating oil
A. Gainer, S.D. Siciliano

TUESDAY SEPTEMBER 27, 2016

Salon 12, 5:00 to 6:30 pm

General Toxicological Effects of Contaminants in Aquatic Species

25. **Student:** Characterization of molecular toxicity pathways of selected emerging contaminants to elucidate species-specific sensitivity of three North American fishes
A. Alcaraz, B. Eisner, D. Schultz, S. Tang, S. Wiseman, P. Jones, J. Giesy, M. Hecker
26. Early-life exposure to diluted bitumen has lasting effects on brain morphology in sockeye salmon.
S.L. Alderman, F. Lin, C.J. Kennedy, Anthony P Farrell, T.E. Gillis
27. The effects of diluted bitumen on the reproductive axis of the marine teleost, Kelp Greenling (*Hexagrammos decagrammus*)
C. Kennedy
28. The lethal and sublethal effects of diluted bitumen and dispersants on Pacific marine algae, crustaceans, and teleost species
S. Bisgrove, R. Chavoshi and C. Kennedy
29. Sublethal effects of diluted bitumen on Pacific sockeye salmon (*Oncorhynchus nerka*) early life stages
C. Kennedy, F. Lin
30. **Student:** Risk of methylmercury (bio)availability in freshwater lakes
S.J. Klapstein, D.A. Risk, S.E. Ziegler, N.J. O'Driscoll
31. **Student:** Validation of in ovo embryo microinjections using selenomethionine to simulate maternal transfer in the fathead minnow (*Pimephales promelas*)
T.J. Lane, K. Raes, D. Janz, K. Liber, M. Hecker, L. Doig
32. DFO's National Contaminants Advisory Group: updates on ongoing biological effects of contaminants research
C. Lougheed, C. Dubetz, J. Leblanc, B. Park, T. Pretorius
33. Alternative method for collecting epipsammic algae samples from deep water soft sediments
M.E. Luoma
34. Epilithic biofilm in outdoor artificial streams as a tool to assess advanced waste water treatment technologies
J. Rodriguez Gil, L.J. Jackson
35. Bioaccumulation of substituted diphenylamine antioxidants and benzotriazole UV stabilizers in an urban creek in Canada
G. Tetreault, Z. Lu, A. Silva, T.E. Peart, C. Cook, G.R. Tetreault, M.R. Servos, M.C. Derek
36. **Student:** The cardiorespiratory and metabolic effects of acute naphthalene and pyrene exposure in adult zebrafish (*Danio rerio*).
C.Yeung, L.P. Weber
37. **Student:** Influence of sunlight on cerium oxide mediated nanoparticle toxicity in Cardinal tetras
Y. Zhang, G. Goss

Innovative Regulatory Approaches to Assessing and Managing Environmental Effects

38. Review of Ontario municipal-industrial strategy for abatement chemical and aquatic toxicity data and sector analysis
A. Farwell, C. Lu, D. Zhang, D. Poirier, S. Kleywegt, T. Fletcher, D.G. Dixon
39. Updates to the proposed Canadian regulatory framework for the environmental assessment of new active ingredients in human and veterinary drugs
T. Francis, J. Chateauvert, S. Kullik

New Methods and Novel Approaches for Assessing and Monitoring Environmental Contaminants

40. **Student:** In vitro-in vivo extrapolation of biotransforming hydrophobic chemicals in the fish body
J.C. Lo, Y. Lee, G. Allard, D.A. Campbell, F. Gobas
41. Relationships between parasites and plasma proteins in male white sucker (*Catostomus commersonii*) from the Athabasca River
D.B. Simmons, J. Sherry, P. Braicovich, D. Marcogiese

Wildlife Toxicology and Population Implications

42. **Student:** Species traits predict avian sensitivity to dioxin-like compounds
K. Bianchini, C.A. Morrissey
43. **Student:** The effect of municipal wastewater effluent on the stress response of fish in the Bow River, Calgary, Alberta
A. Lazaro-Côté, L.J. Jackson, M.M. Vijayan
44. **Student:** Railway-associated attractants as potential toxicants for wildlife
S.Z. Pollock, C.C. St. Clair
45. **Student:** Effects of salinity on mercury in fish and invertebrates in the Saint John River estuary.
B. Reinhart, K. Kidd, S. Pavey, N. O'Driscoll