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Courchesne, F. 2005. Biogéochimie des éléments majeurs et traces dans les écosystèmes forestiers : le rôle de la rhizosphère. INRA-Montpellier, Montpellier, France.

Courchesne, F. 2005. La rhizosphère dans l'étude des cycles biogéochimiques pour la détection des changements environnementaux. Université de Nice - Sophia Antipolis, Nice, France.

Hare L., P.G.C. Campbell, P Couture and C. Fortin. 2005. Metal transfer along aquatic food chains. MITHE-SN Annual Research Symposium. Gatineau, QC. March 1-2.

Jamieson, H.E., M.C. Corriveau, M.B Parsons and J.L. Campbell. 2005. Arsenic, mercury and thallium speciation in dust from abandoned gold mine tailings in NS. NSERC MITHE-SN Annual Research Symposium. Gatineau, QC. March 1-2.

Macfie, S.M. 2005. Bioaccessibility of trace elements in agricultural soils of eastern Canada: using xanes to assess speciation of available metals. MITHE-SN Annual Research Symposium. Aylmer, QC. March 1-2.
Petrie, S., S. Badzinski, K. Drouillard, M. Schummer and K. Gorman. 2005. Contaminant burdens and migration patterns of scaup using the lower Great Lakes. Mississippi River Basin Panel on aquatic nuisance species. Wichita, KS, USA. September 7-9.

Pyle, G. G. and C.M. Wood. 2005. Generation and field validation of chronic biotic ligand models for fish. MITHE-SN Annual Research Symposium. Aylmer, QC. March 1-2.

2006

Alves, L. C., J. Hudson, W. P. Norwood, D. G. Dixon and U. Borgmann. 2006. Water-sediment interactions of *Hyalella azteca* exposed to spiked uranium. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25.

Bernier, J., C. Fortin, and P.G.C. Campbell. 2006. Evolution of the intracellular distribution of Cd, Ni and Tl in chemostat cultured phytoplankton. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

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Dixon, D.G., L. Golding, A. Ball and U. Borgmann. 2006. Environmental risk assessment of metals in water and sediment: Importance of dietary uptake on Cd toxicity to *Hyalella azteca*. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25.

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Dumas J. and L. Hare. 2006. Thallium and nickel transfer from prey to the aquatic insect *Sialis*. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

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Grant, C., M. Tenuta, E. Gawalko, D. Flaten, T. Forge and S. Bittman, S. Sauvé and M. François. 2006. Impact of cropping sequence, tillage and P fertilization on trace elements in a semi-arid environment. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25. Poster and abstract.

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Hale, B., K. Reimer, C. Ollson and I. Koch. 2006. Bioaccessible and bioavailable Cd, as and Ni in food and soils. MITHE-SN Annual Research Symposium, Aylmer, QC. January 24-25. Poster.

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Hendershot W.H. 2006. Metal retention by soils. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25.

Hendershot W.H. 2006. Keynote address: Risk assessment and management of trace element contaminated soils. Association Québécoise des Spécialistes en Science du Sol. Montréal, QC. June 7.

Jumarie C. and M. Mantha. 2006. Pulmonary absorption of metals: influence of lung surfactant components on the bioavailability and toxicity of inhaled metals. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

Lavoie M., C. Fortin and P.G.C. Campbell. 2006. Metal speciation within algal cells: efficiency of different cell homogenisation methods and measurements of thiols in three *phytoplanktonic* species. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

Lord, M., K. McPherson, M. Brewis, S. Sylvester, L. Easton, I. Koch and K. Reimer. 2006. Development of bioaccessibility methods for soil and fish. MITHE Annual Research Symposium. Gatineau, QC. January 24-25. Poster.

Mueller K.K., P.G.C. Campbell and C. Fortin. 2006. Modeling the effect of water quality and natural organic matter (NOM) on trace metal speciation in natural freshwaters. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

Percival, J. B., M.B. Parsons, H. Jamieson, M.C. Corriveau, N. Chen, J. De Tong, M. Li. and G.E.M. Hall. 2006. Preliminary XAFS results of As in gold mine tailings from Lower Seal Harbour, NS. Canadian Light Source Annual User's Meeting. Saskatoon, SK. June.

Rasmussen, P.E., A.J. Wheeler, N.M. Hassan, A. Filiatreault and M. Lanouette. 2006. Refined analysis and characterization methods for metals in urban residential air. MITHE Annual Research Symposium. Gatineau, QC. January 24-25, Platform.

Rasmussen, P.E., A.J. Wheeler, N.M. Hassan, A. Filiatreault and M. Lanouette. 2006. Assessing personal exposures to metals in airborne particulate matter: Challenges and solutions. Symposium on Environmental Risk Assessment (ERA), 87th Canadian Society of Chemistry Conference. Halifax, NS. May 29. Platform.

Rasmussen, P.E., A.J. Wheeler, N.M, Hassan, A. Filiatreault and M. Lanouette. 2006. Personal, indoor and outdoor monitoring of airborne metals in Windsor, ON: Study design. 15th Annual

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Rasmussen, P.E., A.J. Wheeler, N. Hassan, M. Chénier. and A.F. Filiatreault. 2006. Methods for the characterization of metals in airborne particulate matter in Windsor residential environments. Symposium on Metals in the Environment: Speciation, Geochemistry and Bioavailability, 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Montréal, QC. November 9. Platform.

Rasmussen, P. E. 2006. Characterization of particle-bound metals for human exposure studies. Earth Sciences Departmental Seminar, University of Ottawa. Ottawa, ON. November 16. Platform.

Renkema, H., E. Berkelaar and B. Hale. 2006. Effect of transpiration and cation competition on shoot Thallium (I) accumulation by durum wheat (*Triticum turgidum*) and Spring Canola (*Brassica napus*). Poster presentation at the 27th annual meeting of the Society of Environmental Toxicology and Chemistry (SETAC). Montréal, QC. November 5-9.

Wood, C.M. 2006. How hard is that diet? Implications for metal accumulation and Toxicity. 7th International Congress on the Biology of Fish. St. John's, NL. July 18-22.

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Aiguo L, S. Bittman and T. Forge. 2007. Effect of long-term tillage treatments and phosphorus fertilizer on cadmium uptake, *arbuscular mycorrhizal* colonization and growth of sunflower. MITHE-SN Annual Research Symposium, Aylmer, QC. January 23-24. Platform and abstract.

Alves, L. C., D. G. Dixon and U. Borgmann. 2007. Water-sediment interactions in *hyalella azteca* exposed to uranium-spiked sediments. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24. Poster.

Arthur, Lindsay, E. Berkelaar and B. Hale. 2007. Cadmium accumulation in soybean. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24. Poster.
Bernier, J., M. Lavoie, C. Fortin and P.G.C. Campbell. 2007. Algae sub-cellular fractionation to evaluate metal trophic transfer: validating the differential centrifugation protocol. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

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Cullen, W.R. 2007. Some thought on arsenic-sulfur chemistry. Thermal Biology Institute, University of Montana. January.

Cullen, W.R., J. Chen, V. Lai, C. Martins, S. Sobhanifar, E. Polishchuk and K. Reimer. 2007. The use of quantitative PCR for the evaluation of arsenic in the environment. International Congress on Arsenic in the Environment. Valencia, Spain. May.

Cullen, W.R. 2007. From gosio gas to sudden infant death syndrome. US EPA Workshop on research and risk assessment for arsenic. National Conservation Training Center. Shepherdstown, West Virginia, USA. May.

Cullen, W.R. 2007. Some sociochemistry of arsenic. University of Western Australia. July.
Dumas J. and L. Hare. 2007. Nickel and thallium transfer from two types of benthic prey to an invertebrate predator; importance of metal subcellular distribution in prey. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Golding L., U. Borgmann and D.G. Dixon. 2007. Quantifying hazard and exposure of dietary cadmium to the freshwater amphipod *hyalella azteca*. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24. Poster.

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Hare L., PGC. Campbell, P. Couture and C. Fortin. 2007. Metal transfer along aquatic food chains. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Jamieson, H.E., S.R. Walker, S.E. Fawcett, A. Lanzirotti, P. Rasmussen, S. Beauchemin and M.B. Parsons. 2007. Direct identification of metal compounds in contaminated soil, mine tailings, and house dust using synchrotron-based methods. Symposium on use of *in vitro* bioaccessibility/relative bioavailability estimates in regulatory settings: What is needed? 17th Annual Conference of the International Society of Exposure Analysis. Durham, NC, USA. October 14-18. Platform and Abstract.

Jamieson, H. E., S. R. Walker, S. E. Fawcett, A. Lanzirotti, P. Rasmussen, S. Beauchemin and M. B. Parsons. 2007. Direct identification of metal compounds in contaminated soil, mine tailings, and house dust using synchrotron-based methods. International Society for Emission Exposure Conference. Raleigh, NC, USA. October. Platform.

Jumarie, C. and M. Mantha. 2007. Pulmonary absorption and toxicity of metals: influence of lung surfactant components (*in vitro* studies). MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Lalande, H. and W.H.Hendershot. 2007. Evaluation of binding strength of trace elements to soils. MITHE Annual Research Symposium. Aylmer, QC. January 23-24.

Lapointe D. and P. Couture. 2007. Importance of the route of exposure in accumulation and subcellular partitioning of nickel and thallium in fathead minnow (*Pimephales promelas*). MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Lavoie M., C. Fortin and P.G.C. Campbell. 2007. Metal speciation within algal cells: intracellular cadmium distribution and measurements of thiols in *Chlamydomonas reinhardtii*. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Le, X.C. 2007. Arsenic speciation analysis, metabolism, and interaction with proteins. Hong Kong Baptist University Distinguished Lecture Series. February 7.

Le, X.C. 2007. Speciation of arsenic and vanadium. 90th Canadian Society for Chemistry Conference and Exhibition. Winnipeg, MB. May 26-30.

Le, X.C. 2007. Occurrence of arsenic in Canada: implications to research needs and public health. American Water Works Association 2007 Annual Conference and Exposition. Toronto, ON, June 24-28.

Le, X.C. 2007. Arsenic exposure, metabolism, and toxicity. Frontiers in Environmental Chemistry Seminar Series, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences. Beijing, China. September 28.

Le, X.C. 2007. Mass spectrometry of arsenic interaction with hemoglobin and the consequent health implications. 20th Workshop on Tandem Mass Spectrometry. Lake Louise, AB. November 29-30.

Lew, K., J. Acker and X.C. Le. 2007. Arsenic biomonitoring in children playing on chromated copper arsenate-treated playgrounds. International Society for Trace Element Research in Humans Joint Conference on Trace Elements in Diet, Nutrition, and Health: Essentiality and Toxicity. Crete, Greece. October 21-26.

Lu, M., Wang, H., Wang, Z., Li, X. F., Arnold, L. L., Cohen, S. M., Cullen, W. R. and Le, X. C. 2007. Arsenic interaction with proteins. The 58th PITTCON. Chicago, IL, USA. February 25-March 2.

Macfie, S.M., K. Thompson, F. Courchesne, M.C. Turmel and C. Fleury. 2007. The varying responses of plants to contaminated soils. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Macfie, S.M**.** 2007. The marvel of plants: coping with toxic metals. Department of Biology, University of Regina. Regina, SK. November.

McGeer, J.C. 2007. The Biotic ligand model as a tissue residue approach for metals. SETAC Pellston Workshop on Tissue Residue Approach for Toxicity Assessment: Invertebrates and Fish. Leavenworth, WA, USA. June 7-12.

McGeer, J.C., M. Clifford, T. Kozlova, A. Mancini and C.M. Wood. 2007. Using physiology, geochemistry and toxicology to develop prediction models for the impacts of metals in aquatic systems. Society for Experimental Biology Symposium on Essential and Non-essential Metal Metabolism in Aquatic Organisms. London, UK. September 3-5.

Mueller K.K., P.G.C. Campbell and C. Fortin. 2007. The effect of dissolved organic matter (DOM) on the aqueous speciation of cadmium (Cd), nickel (Ni) and zinc (Zn) in lakes in the Rouyn-Noranda region of QC, Canada. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Nugent, M., P.E. Rasmussen, M. Chénier, A. Wheeler and M. Smith-Doiron. 2007. Metals in Windsor indoor dust. A spatial study. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Petrie, S. 2007. Scaup contaminants and satellite tracking. Atlantic Flyway Technical Section Meetings, General Session. Saratoga Springs, NY, USA. March 5.

Petrie, S., S. Badzinski, N. Belzile and Y.W. Chen. 2007. Food-chain transfer and effects of selenium in waterfowl. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Ponton D., and L. Hare. 2007. Nickel in a planktonic food chain. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Proulx I. and L. Hare. 2007. Metal concentrations in sympatric Chironomus species. MITHE-SN Annual Research Symposium. Gatineau, QC. January 23-24.

Pyle, G.G., R.S. Mirza, W.W. Green and C.M. Wood. 2007. Generation and field validation of chronic biotic ligand models for fish: A synthesis of project A1. MITHE-SN Annual Research Symposium. Gatineau, QC. Poster. January 23-24.

Rasmussen, P.E., M. Chénier, J. Niu, and N. Hassan 2007. Characterization of metals in indoor particles: Development of methods to determine the elationship between particle size and solubility. MITHE-SN Annual Research Symposium. Ottawa, ON. January 23-24. Platform, Poster and Abstract.

Rasmussen, P.E., A.J. Wheeler, R. Williams, J. Niu and M. Chénier. 2007. Elemental signatures in personal, indoor and outdoor PM2.5 and PM10 samples from Windsor, ON: quantification of uncertainty. Symposium on community, residential and personal exposure assessments associated with the US-Canada air quality studies. 17th Annual Conference of the International Society of Exposure Analysis. Durham, NC, USA. October 14-18. Platform, Poster, and Abstract.

Rasmussen, P.E. 2007. Measurement of metal bioaccessibility in urban household dust and corresponding garden soils. Symposium on the use of *in vitro* bioaccessibility/relative bioavailability. The 17th Annual Conference of the International Society of Exposure Analysis October 14-18. Durham, NC, USA. Platform and Abstract.

Reimer, K., B. Hale, C. Ollson, I. Koch, M. Lord-Hoyle, L. Meunier, J. Saunders, A. Amendola, L. Vasiluk and J. Wragg. 2007. Bioaccessibility and bioavailability of methods for the measurements of potentially harmful substances (PHSs) in soil and complex foodstuffs. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Renkema, H., E. Berkelaar and B. Hale. 2007. Effect of transpiration and cation competition on shoot thallium accumulation by durum wheat (*Triticum turgidum*) and spring canola (*Brassica napus*). MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24. Poster.

Renkema, H., L.Arthur, E. Windhorst, B. Hale and E.Berkelaar. 2007. Soils & plants project S3: The role of speciation in the accumulation of Tl, As, and Se. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24. Poster.

Sato A. and W.H. Hendershot. 2007. Rhizotoxicity of Ce to cucumber (*Cucumis sativa*). MITHE Annual Research Symposium. Aylmer, QC. January 23-24.

Sato A. and W.H. Hendershot. 2007. Toxicity of cerium to cucumber (*Cucumis sativa*). MITHE Annual Research Symposium. Aylmer, QC. January 23-24.

Schwertfeger D. and W.H. Hendershot. 2007. Exploring the relationships among phytotoxic endpoints, soil metal fractions, and soil edaphic properties in trace metal contaminated field soils. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.
Turmel P., H. Lalande and W.H. Hendershot. 2007. Trace elements in soils and lettuce from urban gardens. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Ware, L. and S. Petrie. 2007. Contaminant burdens and condition of greater scaup wintering on western Lake Ontario, Hamilton Harbor. Atlantic Flyway Technical Section Meetings, Diving Duck Committee Meeting. Saratoga Springs, NY, USA. March 5.

Wheeler A. J., J. Kearney, R. Allen, M. Smith-Doiron, X. Xu, P.E. Rasmussen and J. R. Brook. 2007. Estimating the contribution of ambient particulate matter to indoor residential air using continuous monitors: A Canadian perspective. Border Air Quality Strategy Workshop, Government Conference Center. Ottawa, ON. February 26 & 27. Platform and Abstract.

Wheeler A. J., Allen, R., Kearney, J., Smith-Doiron, M., Xu X., You H., Van Ryswyk, K., Rasmussen, P. E. and J. R. Brook. 2007. Factors influencing the infiltration of PM2. 5 and components of PM in Windsor, ON residences. Symposium on community, residential and personal exposure assessments associated with the US-Canada air quality studies. The 17th Annual Conference of the International Society of Exposure Analysis (ISEA-2007).

Durham/Research Triangle Park, North Carolina, USA, October 14-18. Platform, Poster, and Abstract.

Wilkinson, K.J. 2007. Relating molecular scale science to macroscopic environmental processes: trace metal bioavailability and transport in freshwaters. Geotop (Research center in geochemistry and geodynamics, Université du Québec à Montréal/ McGill. Montréal, QC. March 15.

Wilkinson, K. J. 2007. Which analytical (speciation) techniques are most appropriate for measurements of trace metal bioavailability? Canadian Society of Chemistry. Winnipeg, MB. May 26-30.

Wu, Y. and W.H. Hendershot. 2007. Ion binding to fresh pea (*Pisum sativum L.*) roots with H, Ca, Mg, Cd, Cu, Ni, and Zn. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Wu, Y. and W.H. Hendershot. 2007. Modeling bioavailability and rhizotoxicity of Cd and Ni to pea (*Pisum sativum L.*). MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24.

Yuan, C., X. Lu, X.S. Li, N. Oro, Z. Wang, Y. Xia, T. Wade, J. Mumford and X.C.Le. 2007. Speciation of arsenic and vanadium. XXXV Colloquium Spectroscopicum Internationale. Xiamen, China. September 23-27.

2008

Alves, L.C., U. Borgmann and D. G. Dixon. 2008. Importance of water-sediment interactions for *Hyalella azteca* exposed to uranium-spiked sediment and different overlying water. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23. Poster.

Alves, L.C., U. Borgmann and D.G. Dixon. 2008. Predicting water-sediment interactions of uranium-contaminated sediments and water to *Hyalella azteca*: Laboratory studies and field validation. Society for Environmental Toxicology and Chemistry (SETAC), 5th World Congress. Sydney, Australia. August 3-7. Platform.

Alves, L.C., U. Borgmann and D. G. Dixon. 2008. Predicting water-sediment interactions of uranium-spiked sediments with different overlying water chemistries to *Hyalella azteca*. Annual Aquatic Toxicity Workshop (ATW). Saskatoon, SK. October. Poster.

Bernier J., C. Fortin and P.G.C. Campbell. 2008. Evolution of Ni and Cd intracellular distribution in chemostat cultured phytoplankton. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Bernier J., C. Fortin and P.G.C. Campbell. 2008. Fluctuations in intracellular distribution of metals in a freshwater diatom: Implications for metal trophic transfer studies. Chemodynamics of ecosystems. Ascona, Switzerland.

Campbell, P.G.C., L. Kraemer, A. Giguère, L. Hare and A. Hontela. 2008. Cadmium and nickel detoxification strategies in chronically exposed wild fish – ERA implications. World SETAC Congress. Sydney, Australia. August 3-7.

Campbell, P.G.C. and L. Hare. 2008. Metal handling strategies and subcellular metal partitioning in native aquatic animals chronically exposed to metals. Chemodynamics of Ecosystems. Ascona, Switzerland.

Courchesne, F., B. Cloutier-Hurteau, W. Hendershot, S. Macfie, S. Sauve and M-C. Turmel. 2008. The impact of microbial activity and trace metal speciation in the rhizosphere on metal uptake by plants. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Courchesne, F., B. Cloutier-Hurteau, WH. Hendershot, S. Macfie, S. Sauvé and MC. Turmel. 2008. The impact of microbial activity and trace metal speciation in the rhizosphere on metal uptake by plants: a synthesis. MITHE-SN Annual Research Symposium. Ottawa, ON. January 22-23.

Cullen, W.R. J. Chen, V. Lai, C. Martins, S. Sobhanifar, E. Polishchuk and K. Reimer. 2008. The use of quantitative PCR for the evaluation of arsenic in the environment. International Congress on arsenic Environment. Valencia, Spain. May.
Cullen, W.R. 2008. Some sociochemistry of arsenic, International Congress on arsenic in the environment as 2008. Valencia, Spain. May. Opening congress lecture.

Cullen, W.R. 2008. Some sociochemistry of arsenic. University of Western Australia. July.
Cullen, W.R. 2008. Toxic gases and infant deaths: The history of a myth. University of Otago. New Zealand. August.

Dixon, D.G., U. Borgmann, L. Golding and L. Alves. 2008. Environmental risk assessment of metals in water and sediment: Importance of dietary uptake and water-sediment interactions to *Hyalella azteca*. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23. Poster.

Foucher E., W.H. Hendershot and H. Lalande. 2008. Trace element content in vegetables grown in urban gardens. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Golding L., U. Borgmann and D.G. Dixon. 2008. Metal bioaccumulation from food vs. water: a comparison of Cd bioaccumulation in *Hyalella* exposed to a field collected periphyton diet and lake water. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.

Golding L., U. Borgmann and D.G. Dixon. 2008. Assessing dietary and waterborne bioaccumulation of cadmium in a freshwater amphipod *Hyalella azteca*. Society of

Environmental Toxicity and Chemistry (SETAC) 5th World Congress. Sydney, Australia. August 3-7. Platform.

Grant, C., S. Sauvé, M. Tenuta, M. François, M., E. Gawalko, D. Flaten, S. Malhi and S. Bittman. 2008. Impact of long-term phosphate application and level of fertilizer Cd on crops and soils. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.

Grant, C., M. Tenuta, S. Sauvé, E. Gawalko, D. Flaten, S. Bittman and M. François, M. 2008. Impact of cropping sequence, tillage and P fertilization on trace elements in a semi-arid environment. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.

Hare L., P.G.C. Campbell, P. Couture and C. Fortin. 2008. Metal transfer along aquatic food chains. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Hendershot, W.H. 2008. Controls of bioaccessibility of trace elements in soils. MITHE-SN, Annual Research Symposium. Aylmer, QC. January 22-23.

Hicks K., B. Vigneault, J. McGeer, A. Mancini and S. Smith. 2008. Using biological and geochemical methods to characterize Cu complexation with NOM from different sources. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.

Hoang, C.T.N., C. Hutchins, C. Mwakisenda, R. England, N. Mandala, D. Simon and K. Wilkinson. 2008. Preliminary indicators of the most appropriate parameters to quantify trace metal competition. MITHE Annual Research Symposium. Gatineau, QC. January 22-23.
Jackson, C., L. Meunier and M. Moriarty. 2008. Arsenic in the environment. Advanced Photon Source X-Ray Absorption Fine Structure Scientific Interest Group, Argonne, IL, USA. June 24. Platform.

Jamieson, H. E., S.R. Walker and M.B.Parsons. 2008. Arsenic speciation in dust from abandoned gold mine tailings in NS. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Jamieson, H. E., S.R. Walker, L. Meunier, M.B.Parsons, I. Koch and K.J. Reimer. 2008. The relationship between mineralogy and bioaccessibility in complex arsenic- contaminated materials. Society of Environmental Toxicology and Chemistry (SETAC) World Congress. Sydney, Australia. August 3-7.

Jamieson, H. E., M.C. Corriveau, M.B. Parsons and J.L. Campbell. 2008. Characterization of dust from abandoned mine tailings to assess non-occupational environmental exposure. 6th Annual BioPIXE Conference Dedicated to advances in biological, medical, and environmental applications of Proton-Induced X-Ray Emission. Richland, WA, USA.

Jamieson, H. E. & et al. 2008. Assessing health risks associated with metal-rich soils, mine tailings and household dust. Joint national synchrotron light source – Centre for Nanomaterials

Workshop on Applications of Synchrotron-Based Microprobe and Imaging Techniques to Studies of Human Disease, Brookhaven National Laboratory. NY, May.

Jamieson, H. E. 2008. Answering questions in mine waste research using synchrotron-based microanalysis: Seven Examples. Canadian Light Source Earth and Environmental Science Workshop. Saskatoon, SK. May.

Jumarie C., M. Mantha and L. El Idrissi. 2008. Pulmonary absorption of metals: *in vitro* studies of metal interaction for uptake and toxicity. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Kikkert, J. and E. Berkelaar. 2008. he influence of competing ions on Se and Tl accumulation by durum wheat and spring canola grown in soil. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.

Koch, I., M. Moriarty, P. Smith, C. Jackson, L. Meunier and K. Reimer. 2008. XAS and microprobe analysis of biological and environmental samples. 14th Biennial National Atomic Spectroscopy Symposium. Brighton, UK. July 7-9.

Lapointe D. and P. Couture. 2008. Do nickel and thallium affect fathead minnow's early-life stages? MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Lavoie M., S. Le Faucheur, C. Fortin and P.G.C. Campbell. 2008. Importance of metal detoxification strategies in explaining Cd resistance among phytoplanktonic species. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Le, X.C. 2008. Arsenic speciation and interaction with proteins. Department of Chemistry, University of Calgary. Calgary, AB. February 1.

Le, X.C. Arsenic interaction with proteins. 2008. Kananaskis University of Calgary and University of Alberta Retreat, Environmental Toxicology and Pharmacology. April 14.

Le, X.C. 2008. Arsenic speciation by mass spectrometry. Applied Biosystems Shanghai Application Center. Shanghai, China. April 2.

Le, X.C. 2008. Interaction of arsenic species with proteins. Department of Chemistry, University of California at Riverside. California, USA. April 10.

Le, X.C. 2008. Arsenic speciation and interaction with proteins. Department of Chemistry, University of Montréal. Montréal, QC. October 29.

Macfie S., E. Foucher, F. Courchesne, M.C. Turmel and W.H. Hendershot. 2008. Metal accumulation depends more on plant species than on soil characteristics. MITHE-SN Annual Research Symposium. Ottawa, ON. January 22-23.

Macfie, S., É. Foucher, F. Courchesne, M.C. Turmel and W.H. Hendershot. 2008. Metal accumulation depends more on plant species than on soil characteristics. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Macfie, S. M**.** 2008. Plant/soil interactions that affect metal uptake and translocation. Canadian Society of Plant Physiologists 50th annual meeting. Ottawa, ON. June.

McGeer J., B. Vigneault, K. Hicks, A. Mancini and S. Smith. 2008. The applicability of biotic ligand and critical residue approaches to Canadian Shield conditions. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Platform.

McGeer, J.C. 2008. The biotic ligand model as a tool for the protection of aquatic life: successes and next steps. International Copper Association 2008 Health and Environment Program Advisory Committee Meeting. Quebec City, QC. August 4-7. Platform.

Miller L., X. Hu, A. Hontela, J. Rasmussen, V. Palace and F. Wang F. 2008. Environmental impact assessment of selenium in the Canadian prairie ecosystems. 5th SETAC World Congress. Sydney, Australia. August 3-7.

Mueller K.K. 2008. The chemical speciation of Ni, Cu, Zn and Cd in Canadian lakes and the influence of dissolved organic matter (DOM). Aquatic Chemistry and Environmental Radioactivity Research Group Seminar. Lancaster University. Lancaster, UK.

Murray, H. and S.M. Macfie. 2008. The role of organic matter in bioavailability of metals in urban garden soils. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Nugent, M. and P.E. Rasmussen. 2008. Geochemistry and human health: spatial and geochemical techniques to improve assessment of manganese in Windsor, ON, Canada. MITHE-SN Annual Research Symposium. Aylmer, Gatineau. QC. January 22-23. Abstract (page 6. 12) and Poster.

Nugent, M., P.E. Rasmussen and D. Fortin. 2008. Geochemistry and human health: spatial and geochemical techniques to improve assessment of manganese in Windsor, ON, Canada. 5th SETAC World Congress. Sydney, Australia, August 3-7. Abstract and Poster (no. 119).

Parsons, M. B. 2008. Using earth science data to assess and manage risks from historical gold mines in NS. APICS (Atlantic Provinces Council on the Sciences) / Atlantic Geoscience Society (AGS) Lecture Tour: (presented at five universities in Atlantic Canada in February and March).

Parsons, M. B., H.E. Jamieson, S.R. Walker, M.C.Corriveau, G.E.M.Hall, J. Vaive and M. Little. 2008. Assessing and reducing human health risks from arsenic-rich gold mine tailings in NS, Canada. Society of Environmental Toxicology and Chemistry (SETAC) World Congress. Sydney, Australia. August 3-7.

Petrie, S., S. Badzinski, L.Ware, C. Brady, N. Belzile and Y-W. Chen. 2008. Food-chain transfer and effects of selenium in waterfowl. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Petrie, S. and S. Badzinski. 2008. LPWWRF scaup research – contaminants and satellite tracking. Wisconsin Waterfowl Hunters' Conference. Wausau, WI, USA. February 28.

Ponton D. and L Hare. 2008. Monitoring nickel contamination in lakes using the phantom midge Chaoborus. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Proulx I. and L Hare. 2008. Why bother to identify animals used for contaminant monitoring? MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Pyle, G. G., R.S. Mirza, M. de Francesco, W.W. Green, P. Ryan and C.M. Wood. 2008. Generation and field validation of chronic biotic ligand models to fish: a synthesis of MITHE Project A1. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Pyle, G. G. 2008. The physiology behind the biotic ligand model: where theory meets practicality. Biotic Ligand Model Workshop, Wilfrid Laurier University. Waterloo, ON. May 12-14.

Pyle, G. G. 2008. Making sense of non-scents in metal-contaminated waters. Presented at the 8th International Congress on the Biology of Fishes, Doubletree Hotel. Portland, OR, USA. July 28-August 1.

Pyle, G.G., R.S. Mirza, M. de Francesco, W. Green and C.M. Wood. 2008. Alternative biotic ligands to improve the ecological relevance of BLM predictions. Presented at the 5th SETAC World Congress, Sydney Conference and Exhibition Centre. Sydney, Australia. August 3-7.

Rasmussen, P. E., J. Niu, M. Chénier, A. Wheeler and M. Nugent. 2008. Refined analysis and characterization methods for metals in urban residential air. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Rasmussen, P. E. 2008. Influence of matrix composition on the bioaccessibility of metal concentrations in urban residential dust and soil. Department of Chemistry Seminar Series, Queen's University. Kingston, ON. February 15. Platform.

Rasmussen, P. E. 2008. Exposure to metals in Canadian household environments. Public Health Agency of Canada research forum. Discussion Panel "Impact of Environment and Health". March 17. Invited Speaker and Panelist.

Rasmussen, P. E. 2008. Relevance of earth sciences to public health in Canada. Geology and Health Special Session. GAC-MAC. Quebec City, QC. May 26-29. Invited Keynote Lecture and Published Abstract.

Rasmussen, P. E. 2008. Exposures to metals in airborne particulate matter, soil and settled dust in Windsor, ON. Canada-US Science Exchange on Border Air Quality Studies. Detroit, Michigan, October 29. Platform.

Reimer K., I. Koch and M.Lord-Hoyle. 2008. Applications of bioaccessibility in human health risk assessment. Presentation to the Society of Environmental Toxicology and Chemistry (SETAC), 5th World Congress, Sydney Convention and Exhibition Centre, Sydney Australia(Note: due to family illness this lecture was presented by M. Lord-Hoyle). August 3-7.

Reimer, K., M. Moriarty and I. Koch. 2008. Biotransformation and distribution of arsenic in biological tissues. 91st Canadian chemistry conference and exhibition. Edmonton, AB, May.

Renkema, H., A. Koopmans, E. Berkelaar and B. Hale. 2008. Can thallium accumulation by plants be predicted from potassium accumulation? MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Poster.
Renkema, H., L. Arthur, J. Harskamp, L. Kersbergen, J. Kikkert, A. Koopmans, M. O'Donnell, B. Hale, and E. Berkelaar. 2008. The role of speciation in the accumulation of Tl and Se. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23. Platform and Poster.

Sauvé, S., D. Wallschlaeger, W.H. Hendershot and F. Courchesne. 2008. The impact of microbial activity and trace metal speciation in the rhizosphere on metal uptake by plants: a synthesis. MITHE-SN Annual Research Symposium. Ottawa, ON. January 22-23.

Schwertfeger D.M. and W.H. Hendershot. 2008. b. Differences in copper bioavailability and phytotoxicity in leached and non-leached copper-spiked test soils. MITHE Annual Research Symposium. Aylmer, QC. January 22-23.

Walker, S. R., H.E. Jamieson, M.B. Parsons and J.L. Campbell. 2008. Solid-phase speciation and bioaccessibility of arsenic in historical gold mine tailings from NS. Health Canada Arsenic Forum. Halifax, NS. March.

Ware, L. and C. Brady. 2008. LPWWRF diving and sea duck contaminant research on the lower Great Lakes. MITHE-SN Annual Research Network Symposium. Gatineau, QC. January 22-23.

Wilkinson, K. J., R. Domingos, C. Hutchins, D. Simon and R. Flouty. 2008. Dynamics of trace metal bioavailability. Chemodynamics workshop. Monte Verita, Switzerland. October.

2009

Lapointe D., S. Gentès, D. Ponton, L. Hare and P. Couture. 2009. Influence of prey type on nickel and thallium accumulation and toxicity in juvenile fathead minnows (*Pimephales promelas*). MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Akhter, F., X. Gao, M. Tenuta, D.N. Flaten and C.A. Grant. 2009. Effects of long-term phosphorus fertilization, tillage and crop sequence on root colonization by *arbuscular mycorrhizal* fungi and cadmium accumulation in durum wheat and flax. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21. Poster.

Alves, L. C., U. Borgmann and D. G. Dixon. 2009. Kinetics of uranium uptake in soft water and the effect of body size on bioaccumulation and toxicity to *Hyalella azteca*. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21. Poster.

Alves, L. C., U. Borgmann and D. G. Dixon. 2009. Uranium bioavailability, water-sediment and water-bioaccumulation interactions to *Hyalella azteca* exposed to sediment and site water collected near former uranium mining districts: Elliot Lake and Bancroft, ON, Canada. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21. Poster.

Amarakoon, I., D. Flaten, M. Tenuta, X. Gao and C. Grant. 2009. Monoammonium phosphate and preceding crop influence on soil solution Cd availability and plant Cd accumulation. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21. Poster.

Arthur, Lindsay, E. Berkelaar and B. Hale. 2009. Terrestrial biotic ligand model for cadmium accumulation in soybean. MITHE-SN Annual Symposium. Gatineau, QC. January 20-21. Poster.

Bernier J., C. Fortin and P.G.C. Campbell. 2009. Evolution of nickel and cadmium intracellular distribution in chemostat cultured phytoplankton. MITHE-SN Annual Research Symposium. Gatineau, QC. January 6-7.

Campbell, P.G.C. 2009. Écotoxicologie des métaux: rôles de la spéciation dans l'accumulation et la toxicité des métaux. Conference “Spectr’Atom”, Pau, France.

Courchesne F. 2009. Influence of microbial activity and trace metal speciation in the rhizosphere on metal uptake by wheat. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21.

Cullen, W.R. 2009. Arsenic in medicine. Canadian Bioinorganic Conference. Parry Sound, ON. May 26-29.

Cullen, W. R., V. W-M. Lai and S. Pergantis. 2009. Arsenic in the freshwater environment. CSC annual meeting. Hamilton, ON. June.

Dixon, D.G., U. Borgmann, L. Golding, L. Alves and W. P. Norwood. 2009. Environmental risk assessment of metals in water and sediment: Importance of dietary uptake and water-sediment interactions to *Hyalella azteca*. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21. Platform.

Eastley, L.M., C. Grant, D. Flaten and M. Tenuta. 2009. Impact of crop rotation and crop residue cycling on the cadmium concentration of the subsequent crop in a rotation. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21. Poster.

Foucher E. and W.H. Hendershot. 2009. Factors affecting trace element concentrations in the edible parts of vegetables grown in urban gardens. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21.

Gao, X., M. Tenuta, D.N. Flaten and C.A. Grant. 2009. Dependency of Cd concentration in flax on colonization by *Glomus intraradices*, cadmium and phosphorus addition to soil. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21. Poster.

Gao, X., M. Tenuta, D.N. Flaten and C.A. Grant. 2009. Soil solution Cd dynamics and Cd accumulation of durum wheat following phosphate fertilizers containing different levels of Cd. MITHE-SN Annual Research Symposium. Ottawa, ON. January 20-21. Poster.

Golding L., U. Borgmann and D.G. Dixon. 2009. Toxicity and modelling bioaccumulation of cadmium from water and a periphyton diet in the freshwater amphipod *Hyalella azteca*. MITHE-SN Annual Research Symposium. Gatineau, QC, Canada, January 20-21. Poster.

Golding L., U. Borgmann and D.G. Dixon. 2009. Development of a predictive model of dietary cadmium exposure based on bioaccumulation in the freshwater amphipod *Hyalella azteca*: a tool for ecological risk assessment. Cemagref (Institute of Research in Science and Technology for the Environment). Bordeaux, France. June 5. Platform.

Golding L., U. Borgmann and D.G Dixon. 2009. Modeling cadmium bioaccumulation and toxicity in the freshwater amphipod *Hyalella azteca* from a natural periphyton diet: implications for water quality guidelines. Aquatic Toxicity Workshop. La Malbaie, QC. September 27-30. Platform.

Grant, C. A. 2009. Challenges to use of genetic selection for reducing cadmium concentration in crops. Challenges for agro-environmental research in monsoon Asia. MARCO Symposium. Tsukuba, Japan. October 3-7.

Hamula, C., Z. Wang, H. Zhang, E. Kwon, X.F. Li, S. Gabos, W. R. Cullen, K. J. Reimer, L. Hare, P.G.C. Campbell, P. Couture and C. Fortin. 2009. Metal transfer along aquatic food chains. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Harskamp, J., M.J. O'Donnell and E. Berkelaar. 2009. Using ion-specific microelectrodes to measure the width of the boundary layer surrounding roots of plants exposed to cadmium and thallium.MITHE-SN) Annual Research Symposium. January 20-21. Gatineau, QC. Poster.

Hendershot, W.H., S.M. Macfieand and P. Sharma. 2009. The effects of transpiration and soil solution chemistry on plant trace element uptake. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21.

Hendershot, W.H., S.M. Macfie and P. Sharma. 2009. Effects of transpiration and soil solution chemistry on plant trace element uptake. MITHE Annual Research Symposium. Aylmer, QC. January 20-21.

Hicks, K., B. Vigneault, S. Smith, M. King, A. Mancini, E. J. Costa and J. C. McGeer. 2009. Cu complexation by natural organic matter: linking chemical properties with biological effects. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Poster.

Hu X., F.Wang and M. Hanson. 2009. Understanding selenium speciation and behavior in the aquatic ecosystems of the Canadian Prairie. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Jamieson, H. E. 2009. Mineralogical controls on the environmental mobility of arsenic and other potentially hazardous elements. Logan Club lecture, University of Ottawa. Ottawa, ON. November.

Janz D.M., M.L. Brooks, P.M. Chapman, D.K. DeForest, G. Gilron, D. Hoff, W.A. Hopkins, D.O. McIntyre, C.A. Mebane, V.P. Palace, J.P. Skorupa and M.Wayland. 2009. Chapter 6: Selenium toxicity to aquatic organisms. Society of Environmental Toxicology and Chemistry Pelston Workshop. SETAC Press, Pensacola FL, USA.

Jumarie C., M. Mantha, L. El Idrissi, J. Bernier and C. Fortin. 2009. Pulmonary absorption and toxicity of metals: *in vitro* speciation studies. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Kikkert, J., B. Hale and E. Berkelaar. 2009. The influence of competing ions on Tl accumulation by durum wheat and spring canola grown in soil. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Poster.

Klinck, J.S. and C.M. Wood. 2009. A comparison of calcium and cadmium uptake along the gastro-intestinal tract between freshwater and seawater acclimated *Oncorhynchus mykiss*. SETAC Annual Meeting. New Orleans, LA, USA. November.

Koch, I., K. J. Reimer and W. R. Cullen. 2009. Bioaccessibility/bioavailability in environmental risk assessment. CanBIC – 2nd Georgian Bay Conference on Bioinorganic Chemistry. Parry Sound, ON. May 26-29.

Lavoie M., C. Fortin and P.G.C. Campbell. 2009. Role of Ca and essential micronutrients in modulating Cd uptake and toxicity in phytoplankton. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Lu, M., Z. Wang, A. McKnight-Whitford, J. Liu, H. Yan, X. Lu, C. Yuan, H. Wang and X.C. Le. 2009. Mass spectrometry studies of arsenic metabolism and toxicity. 57th American Society for Mass Spectrometry Conference. Philadelphia, PA, USA. May 31-June 4.

Lu, M., B. Chen, X. Lu, A. McKnight-Whitford and X.C. Le. 2009. Release of arsenic species from proteins for speciation analysis in biological samples. The 11th International Symposium on Advances in Extraction Technologies. Black Hills, SD, USA. October 4-7.

MacDonald, L. et al. 2009. Childhood exposures to metals in urban Canadian Shield homes assessed using wipe sampling methodologies. Canadian Environment and Child Health and Development Research Workshop. Ottawa ON. February 9. Abstract and Poster.

Mancini, A., K. Hicks and J. C. McGeer. 2009. Acute toxicity and gill accumulation of Cu or Cd in five species of fish in soft waters. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Poster.

McDonald, L., P. Rasmussen, M. Chénier and C. Levesque. 2009. Childhood exposures to metals in urban Canadian shield homes assessed using wipe sampling methodologies. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20. Abstract and Poster.

McGeer, J.C., B. Vigneault, K. Hicks, A. Mancini, S. Smith and M. Wilkie. 2009. The applicability of biotic ligand and critical residue approaches to Canadian Shield conditions. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Platform.

McKnight-Whitford, A., Y. Xia, M. Lu, X. Lu, L. Chen, B. Chen, J. Liu, C. Yuan and X.C. Le. 2009. Speciation of arsenic and antimony. The 13th Asian Chemical Congress. Shanghai, China, September 14-16.

McKnight-Whitford, A., B.Chen, X. Lu, M. Lu, C.Yuan and X.C. Le. 2009. Tandem mass spectrometry studies of arsenic species in environment and human health. The 13th International Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2009), November 25-28. Moriarty, M., L. Meunier,M. Moriarty, M., I. Koch and K.J. Reimer. 2009. Presentation to the Canadian Light Source. Saskatoon, SK. November 18.

Mueller K.K., P.G.C. Campbell and C. Fortin. 2009. Measured and modeled free copper in Canadian Shield lakes. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Prize for best poster.

Murray, H. and S.M. Macfie. 2009. The effect of organic matter on the bioavailability of metals in urban garden soils. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21.

Nadella, S.R., I.V.P. Ahmed, G. Pyle and C.M. Wood. 2009. Copper uptake kinetics in the gills and gut of fathead minnows exposed to waterborne vs. dietary copper. SETAC Annual Meeting. New Orleans, LA, USA. November.

Norwood, W. P., L.A.S. Milne and D.G. Dixon. 2009. Metal effects addition model (M.E.A.M) testing and risk assessment of MITHE-SN aquatic ecosystems theme sites. 2008/09 sub-project of (A4) environmental risk assessment of metals in water and sediment: Importance of dietary uptake and water-sediment interactions to *Hyalella azteca*. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21. Poster.

Norwood, W. P., D.G. Dixon and U. Borgmann. 2009. Development of the metal effects addition model (M.E.A.M.). Presentation to the Inter-Governmental Ecotoxicological Testing Group. La Malbaie, QC, September 31.

Nugent, M. and P.E. Rasmussen. 2009. Spatial and geochemical techniques to improve assessment of manganese in Windsor, ON. MITHE-SN Annual Research Symposium. Aylmer, QC. Abstract and Poster. January 20-21.

Petrie, S., S. Badzinski, N. Belzile, Y.W. Chen, M. Schummer, L. Ware, C. Brady, A. Hontela and Q.X Zhao. 2009. Food-chain transfer and effects of selenium on waterfowl using the Great Lakes. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Polishchuk, E.A., J. Chen, V. Lai and W.R. Cullen. 2009. A quantitative PCR technique for evaluation of arsenic mobility in heavy metal contaminated samples. 4th International Symposium "QPCR Diagnostics and Molecular Markers." Freising, Germany. March.

Ponton D. and L. Hare. 2009. Understanding nickel dynamics in the biomonitor *Chaoborus*. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Proulx I. and L Hare. 2009. Why bother to identify animals used for contaminant monitoring? MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

Rasmussen, P.E., A. Wheeler, J. Niu, M. Chénier, M. Nugent and H.D. Gardner. 2009. Refined analysis and characterization methods for metals in urban residential air. MITHE-SN Annual Research Symposium. January 20-21. Abstract, Poster and Platform.

Rasmussen, P.E. 2009. Review of RIVM Report 711701086/2008: Relative oral bioavailability of lead from Dutch made grounds. Utrecht Experts Review Workshop, RIVM/TNO Netherlands. May 14. Platform.

Rasmussen, P. E. 2009. Development of Health Canada protocols for sampling and analysis of indoor dust. Scientific research workshop to finalize document on guidelines for indoor settled dust. Government Conference Centre. Ottawa ON. October 20. Platform.

Reimer, K., I. Koch and W.R. Cullen. 2009. Organoarsenicals in the terrestrial environment. CanBIC – 2nd Georgian Bay Conference on Bioinorganic Chemistry. Parry Sound, ON. May 26-29.

Renkema, H., A.Koopmans, L. Kersbergen, B. Hale and E. Berkelaar. 2009. The effect of transpiration on thallium and selenium accumulation by durum wheat and spring canola. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21. Poster.

Schwertfeger D.M. and W.H. Hendershot. 2009. Application of a root TBLM to predict copper phytotoxicity in 14-day old barley seedlings. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21.

William R. Cullen, W. Vivian, M. Lai, I. Koch, K.J. Reimer and R.B. Saper. 2009. Arsenic and other toxic elements in traditional medicine. CanBIC – 2nd Georgian Bay Conference on Bioinorganic Chemistry. Parry Sound, ON. May 26-29.

Woldemichael, M.H., A. Lalonde and P.E. Rasmussen. 2009. The mineralogical composition of house dust. Health Canada science forum. Ottawa, ON November 16-17. Abstract 1. 67 and Poster.

Wu Y. and W.H. Hendershot. 2009. Integrating research results into predictive models to describe the movement of trace elements from soil to edible plants. MITHE-SN Annual Research Symposium. Aylmer, QC. January 20-21.

Zhao, Q-X., Y.W. Chen, and N. Belzile, N. 2009. Extraction of organic Se compounds from biological samples followed by separation with HPLC-microsample digestion and HG-AFS. MITHE-SN Annual Research Symposium. Gatineau, QC. January 20-21.

2010

Bittman, S., D. Hunt, A. Liu, T. Forge, G. Kowalendo, C. Grant, S. Sauvé and E. Gawalko. 2010. Long term application of dairy slurry reduces Cd concentration in sunflower (*Helianthus anuus L.*). Portugal. September. Platform.

Courchesne, F. 2010. Metals in the rhizosphere of Canadian trees. Universita Politecnica delle Marche. Ancona, Italie.

Grant, C., D. Flaten, M. Tenuta, X. Gao, S. Malhi and E. Gawalko. 2010. Impact of long-term application of phosphate fertilizer on cadmium accumulation in crops. Keynote address In Heavy Metal Contaminated Soils Symposium (3. 5. 1) World Congress of Soil Science. August 1-7.

Hodson, P.V., R.J. Reash, S.P. Canton, P.V. Campbell, C.G. Delos, A. Fairbrother, N.P. Hitt, Miller, L. L. and H.M. Ohlendorf. 2010 (in press). Selenium risk characterization. In: Chapman, P.M., W.J. Adams, M.L. Brooks, C.G Delos, S.N. Luoma, W.A. Maher, H.M. Ohlendorf, T.S. Presser, and D.P. Shaw. (eds). Ecological Assessment of Selenium in the Aquatic Environment. SETAC Press/ Pensacola, FL, USA.

Mueller K.K. 2010. Characterizing dissolved organic matter (DOM) using fluorescence and parallel factor analysis (PARAFAC), Lancaster Environment Centre Research Seminar, Lancaster University. Lancaster, UK.

Nugent, M., P.E. Rasmussen and D. Fortin. 2010. Geochemistry and human health: spatial and geochemical techniques to improve assessment of exposure to manganese in Windsor, ON, Advances in Earth Sciences Research Conference, University of Ottawa. Ottawa, ON. March 26-28. Platform.

Parsons, M. B., M.E. Little, H.E. Jamieson, S.R. Walker and T.A. Goodwin. 2010. Assessing and reducing risks at the Montague and Goldenville gold districts in NS. Health Canada – Environment Canada workshop on the Role of Geochemical Data in Ecological and Human Health Risk Assessment. Halifax, NS. March.

Pyle, G. G. 2010. Effects of contaminants on chemosensory systems in aquatic animals. Presented at the Northern ON School of Medicine, Lakehead University. Thunder Bay, ON. March 2. (Simultaneously webcast to the Sudbury, ON campus at Laurentian University).

Rasmussen, P. E., A. Wheeler, J. Niu, M. Chénier, M. Nugent and H.D. Gardner. 2010. Bioaccessibility of manganese and lead in air and settled dust in urban residential environments. Healthy Environments and Consumer Safety Branch, Health Canada. Ottawa, ON. Poster.

Rasmussen, P. E., J. Niu and H.D. Gardner. 2010. Characterization of airborne nanoparticles using filter-based methods: metals and gravimetric analysis. Tri-National Workshop on Standards for Nanotechnology, National Research Council. Ottawa, ON. February 3-4. Platform.

Yuan, C., S. Shen, S. H. Yan, M. Lu, H. Wang, W.R. Cullen, J. Qin, B. Rosen, S. Cohen, J. Lee, M. Weinfeld and X.C. Le. 2010. A speciation approach to study environmental toxicology of arsenic. 93rd Canadian Chemistry Conference and Exhibition. Toronto, ON. May 29-June 2.

MITHE-SN Conference Presentations (Not Invited)

2005

Cloutier-Hurteau, B., F. Courchesne, and S. Sauvé. 2005. Links between microbial activity and the speciation of Cu in the rhizosphere of contaminated forest soils. 8th International Conference

on the Biogeochemistry of Trace Elements. Adelaide, Australia.

Corriveau, M.C., H.E. Jamieson, M.B.Parsons and J.L. Campbell. 2005. Characterization of metal(loid)s in mineral dusts from gold mine tailings. Geological Assoc. /Mineralogical Assoc. Annual Mtg. Halifax, NS.

Courchesne, F., P. Legrand, N. Kruyts, and M.C. Turmel. 2005. Root-induced acidification, elemental distribution and trace metal speciation in the rhizosphere of forest soils. Acid Rain, 7th International Conference on Acid Deposition. Prague, Czech Republic.

Craigen, C., M.B. Parsons, H.E. Jamieson, G.M. Hall and J.E.Vaive. 2005. Arsenic in gold mine tailings and co-existing pore waters in freshwater and marine settings. Environmental Science and Engineering Research Conference. Gananoque, QC.

Craigen, C., M.B.Parsons, H.E.Jamieson, G.M.Hall and J.E.Vaive. 2005. Arsenic speciation of arsenic in mine tailings and pore water, lower seal harbour gold district, NS. Geological Assoc. /Mineralogical Assoc. Annual Mtg. Halifax, NS.

Dubois, M., and L. Hare. 2005. Thallium and nickel transfer from prey to the aquatic insect Sialis. SETAC North America Annual Meeting. Baltimore, MD.USA.

Dumas, J. and L. Hare. 2005. Trophic transfer of metals along aquatic trophic chains. SETAC North America, Annual Meeting. Baltimore, MD, USA.

Green, W.W., R.S. Mirza, C.M. Wood and G.G. Pyle. 2005. Olfactory sensitivity of wild yellow perch (*Perca flavescens*) from along a metal contamination gradient. 32nd Annual Aquatic Toxicity Workshop, Waterloo, ON. Poster. October.

Lapointe, D., and P.Couture. 2005. Accumulation de métaux chez les consommateurs finaux d'une chaîne alimentaire aquatique. SETAC, Chapitre Saint-Laurent annual meeting. Montréal, QC.

Liard, B., M.C. Corriveau., H. Jamieson, T. van de Wiele and S.D. Siciliano. 2005. Bioaccessibility of arsenic in mine tailings from eastern Canada. ISEA (International Society of Epidemiology Analysis). Paris, France. September. Poster.

Petrie, S., S. Badzinski, K. Drouillard, and K. Gorman. 2005. Acquisition of selenium by lesser and greater scaup on the lower great lakes and upcoming satellite tracking project. February 28. Atlantic Flyway Technical Section Winter Meeting. Mystic, CT, USA.

Petrie, S., S. Badzinski, K. Drouillard, M. Schummer and K. Gorman. 2005. Scaup contaminant research being conducted by LPWWRF on the lower Great Lakes. Delta Waterfowl Summer Student Symposium. Delta Marsh, MB. July 5.

Petrie, S., S. Badzinski, K. Drouillard, M. Schummer and K. Gorman. 2005. Scaup contaminant research being conducted by LPWWRF on the lower Great Lakes. Improving our understanding of the heart of the Great Lakes, Lake St. Clair Conference. Wallaceburg, ON. September 22.

Petrie, S., S. Badzinski, K. Drouillard, M. Schummer and K. Gorman. 2005. Scaup contaminant research being conducted by LPWWRF on the lower Great Lakes. Institute for Waterfowl and Wetland Research, Stonewall, MB. July 8.

Rasmussen, P.E., A.J. Wheeler, N.M. Hassan, A. Filiatreault, and M. Lanouette. 2005. Development of analytical and sampling protocols for personal, indoor and outdoor monitoring of airborne metals and PM2.5 in Windsor residential environments. 2005 Health Science Forum. Ottawa, ON. October 24-25. Poster.

Schummer, M., S. Petrie and R. Bailey. 2005. Resource use by diving ducks during winter on northeastern Lake Ontario: a comparative approach to understanding contaminant acquisition. 2nd North American Sea Duck Conference. Annapolis, MD, USA. November 7-11.

Skinner, W. M., R.R. Martin, S.J. Naftel, S. Macfie S, F. Courchesne and V. Séguin. 2005. Multi-technique studies of the distribution of metals between the soil, rhizosphere and roots of *Populus tremuloides* growing in forest soil. 8th International Conference on the Biogeochemistry of Trace Elements. Adelaide, Australia.

Wood, C.M., G.G. Pyle, and 11 others. 2005. How hard is that diet? Implications for metal uptake and toxicity. SETAC North America Annual Meeting. Baltimore, MD, USA. November 13-17. Platform.

2006

Alves, L.C., D.G. Dixon, U. Borgmann. 2006. Water-sediment interactions in *Hyalella azteca* exposed to uranium-spiked sediments. SETAC North America 27th Annual Meeting. Montréal, QC. November 5-9.

Bernier JM, C. Fortin, and P.G.C. Campbell. 2006. Evolution over time of the intracellular distribution of Cd, Ni and Tl in chemostat cultured phytoplankton: monitoring metal exposure and intracellular distribution. SETAC North America Annual Meeting. Montréal, QC. November 5-9.

Cloutier-Hurteau, B., F. Courchesne and S. Sauvé. 2006. Microbial effects on the speciation of Cu and Zn in the rhizosphere of forest soils. SETAC Meeting. Montréal, QC. November 5-9.

Cloutier-Hurteau, B., S. Sauvé and F. Courchesne. 2006. Microbial effects on the fractionation of Cu and Zn in the rhizosphere of forest soil. 18th World Congress of Soil Science. Philadelphia, PA, USA.

Corriveau, M. C., and M.B. Parsons, H.E. Jamieson, I. Koch, K.J. Reimer and G.E.M. Hall. 2006. Mineralogical controls on the bioaccessibility of arsenic in weathered gold mine tailings. Presented at the ISEG (International Symposium on Environmental Geochemistry). Beijing, China. September.

Cullen, W.R. 2006. Arsenic: some recent encounters. 7th International Conference on Environmental and Biological Aspects of Main-Group Organometallics, Heraklion. Crete, Greece. October 10-12.

Cullen, W.R. 2006. From gosio gas to sudden infant death syndrome, US EPA Workshop on Research and risk assessment for arsenic. National Conservation training Center. Shepherdstown, West Virginia, USA. May.

Dubois , M., and L. Hare. 2006. Le transfert d'éléments traces dans une chaine trophique d'invertébrés benthiques; lien avec la répartition subcellulaire chez les proies. SETAC, Chapitre Saint-Laurent, annual meeting. Québec, QC. November 5-9.

Dubois, M., and L. Hare. 2006. Transfer of cadmium and selenium from benthic prey to an invertebrate predator. SETAC North America Annual Meeting. Montréal, QC. November 5-9.

Dumas J. and L Hare. 2006. Nickel and thallium transfer from two types of benthic prey to an invertebrate predator; importance of metal subcellular distribution in prey. SETAC North America Annual Meeting. Montréal, QC. November 5-9.

Eastley, L., C. Grant, D. Flaten and M. Tenuta. 2006. Impact of crop rotations and crop residue biocycling on the availability of heavy metals to the subsequent crop. In Abstracts, Session No. 144-28, CD-ROM (http://www.18wcss.org/). 18th World Congress of Soil Science. Philadelphia, PA, U.S.A. July 9-15. Poster and Abstract.

Fleury, C. and F. Courchesne. 2006. Effect of tree species on the fractionation of metals in the rhizosphere. SETAC Meeting. Montréal, QC. November 5-9.

François, M, C. Grant and S. Sauvé. 2006. Cadmium and zinc dynamic fractionation in fertilized soils using DGT technique. SETAC North America 27th Annual Meeting. Montréal, QC. November 5-9. Poster.

François, M., F. Courchesne, and S. Sauvé. 2006. Cadmium and zinc dynamic fractionation in fertilized soil measured using DGT technique. SETAC Meeting. Montréal, QC. November 5-9.

Fudge T., K. Wautier , G. Sterling and V.P. Palace. 2006. Rainbow trout fry emergence from artificial redds containing different fine sediment loads. 30th Annual Larval Fish Conference. Lake Placid, NY, USA. September 10-14.

Golding L., U. Borgmann and D.G. Dixon. 2006. Quantifying hazard and exposure of dietary cadmium to the freshwater amphipod *Hyalella azteca*. SETAC North America 27th Annual Meeting. Montréal, QC. November 5-9. Poster.

Grant, C.A., C.A. Flaten and E. Gawalko. 2006. Long-term phytoavailability of Cd in monoammonium phosphate fertilizer. North American SETAC meeting. Montréal, QC. November 5-9.

Grant, C.A., D. Flaten and E.Gawalko. 2006. Crop Cadmium Concentration as Affected by Cadmium Addition in Phosphorus Fertilizers, Across Soil Types, Session No. 168-13, CD-ROM (http://www.18wcss.org/). 18th World Congress of Soil Science. Philadelphia, PA, U.SA. July 9-15. Poster and Abstract.

Green W., R. Mirza, C.M. Wood and G. Pyle. 2006. Physiology and toxicology of the olfactory system of the fathead minnow during exposure to sublethal metal concentrations. 15th Annual Fish Physiology and Biochemistry Workshop. Keene, ON. February 3-5.

Green, W., R. Mirza, C.M. Wood and G. Pyle. 2006. Binding characteristics of copper on the olfactory epithelium of the fathead minnow (*Pimephales promelas*): A biotic ligand model approach. SETAC 27th Annual Meeting. Montréal, QC. November 5-9.

Hamula C.A., Z. Wang, , H. Zhang , E. Kwon, , X.F. Li, S. Gabos, W.R. Cullen, K.J. Reimer and X.C. Le. 2006. Children's exposure to arsenic and chromium from playgrounds. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25.

Hamula, C.A., Z. Wang, H. Zhang, X.F. Li, S. Gabos and X.C. Le. 2006. Chromium and arsenic on the hands of children after playing in playgrounds. 89th Canadian Society for Chemistry Conference and Exhibition. Halifax, NS. May 27-31.

Hinsinger, P., V. Chaignon, B. Cloutier-Hurteau, J.Y. Cornu, P. Legrand, A. Michaud, V. Séguin and F. Courchesne. 2006. Rhizosphere: A unique interface for understanding the fate of trace metals – The example of copper. 18th World Congress of Soil Science. Philadelphia, PA, USA. July 9-15.

Jamieson, H.E., and M.C. Corriveau. 2006. Arsenic speciation in mineral dusts from mine tailings. Presented at Gold Mines Workshop. Halifax, NS. March.

Jamieson, H.E., M.C. Corriveau, M.B. Parsons, I. Koch and K. Reimer. 2006. Mineralogy and bioaccessibility of arsenic-bearing secondary phases in gold mine tailings. Goldschmidt Conference. Melbourne, Australia. August.

Kam J., N. Franklin and C.M. Wood. 2006. Diet selection in rainbow trout under chronic dietary metal exposure. 15th Annual Fish Physiology and Biochemistry Workshop, Elmhirst's Resort. Keene, ON, February 3-5.

Lapointe, D. and P. Couture. 2006. Importance of the route of exposure in accumulation and subcellular partitioning of nickel in fathead minnows (*Pimephales promelas*). SETAC North America, Annual Meeting. Montréal, QC. November 5-9.

Lavoie, M., C. Fortin and P.G. Campbell. 2006. Metal speciation within algal cells: intracellular cadmium distribution and measurements of thiols in phytoplankton species. SETAC, North America. Montréal, QC. November 5-9.

Lavoie, M., C. Fortin and P.G.C. Campbell. 2006. Partition des métaux à l'intérieur de cellules phytoplanctoniques: distribution intracellulaire du cadmium et mesure de thiols chez des algues vertes. Congrès de la Fédération des étudiants de l'INRS. Montréal, QC.

Le, X.C. 2006. Arsenic speciation, metabolism, and interaction with proteins. International Conference of Industrial Hygiene and Occupational Medicine. P. 23-24. Taipei, Taiwan. April 28-29.

Le, X.C., X. Lu, M. Lu, N. Orr, Z. Wang, C. Yuan and J. Chin. 2006. Speciation studies of arsenic in the environment and in human. The 7th International Symposium on Environmental Geochemistry 25(Suppl.): 77-78. Beijing, China. September 24-27.

Li, S., S. Glassaur and X.C. Le. 2006. Vanadium speciation in oilsand coke and bacterial samples. . WO18. 52nd International Conference on Analytical Sciences and Spectroscopy. Kelowna, B.C., June 18-21.

Lu, X. and X.C. Le. 2006. Arsenic speciation in human urine samples. MO16. 52nd International Conference on Analytical Sciences and Spectroscopy. Kelowna, B.C. June 18-21.

Miller L., J.B. Rasmussen, V. Palace, F. Wang and A. Hontela 2006. The effect of selenium on the physiological stress response and oxidative stress biomarkers in fish. Aquatic Toxicity Workshop. Jasper, Alberta. October.

Miller L.L., V.P. Palace, J.B. Rasmussen. and A. Hontela. 2006. The effects of selenium on the physiological stress response in rainbow trout and brook trout from a coal mining area. Cdn. Conference for Fisheries research (CFFR). Calgary, AB. January. Poster.

Mirza R. S., W.W. Green, C.M. Wood and G.G. Pyle. 2006. Do you smell what I smell? Olfactory impairment in wild yellow perch *(Perca flavescens*) from metal-contaminated waters in northern ON. 45th annual meeting of the Canadian Society of Zoologists, University of Alberta. Edmonton, AB. 2nd -7th May 2006.

Mirza, R., W. Green, C.M. Wood and Pyle, G. 2006. Disruption of the olfactory system in wild yellow perch from metal-contaminated waters: a physiological and behavioural approach. SETAC27th Annual Meeting. Montréal, QC. November 5-9.

Mirza, R.S., W.W. Green, C.M. Wood and G.G. Pyle. 2006. Do waterborne metals impair olfactory function in wild yellow perch (*Perca flavescens*)? Evidence from physiological and behavioural studies. Sudbury restoration workshop. Laurentian University, Sudbury, ON, February 22-23. Poster.

Mirza, R.S., W.W. Green, C.M. Wood and G.G. Pyle. 2006. Disruption of olfactory function in wild yellow perch (*Perca flavescens*) from metal-contaminated waters: Evidence from electrophysiological and behavioural studies. 16th Annual meeting of the SETAC Europe. The Hague, Netherlands. May 7-12.

Mirza, R.S., W.W. Green, C.M. Wood and G.G. Pyle. 2006. Olfactory disruption in yellow perch from metal contaminated waters. 11th Annual Meeting and General Conference of the Laurentian Chapter of the SETAC. Sudbury, ON. May 18-19.

Mueller, K.K., P.G.C. Campbell and C. Fortin. 2006. Modeling the effect of water quality and natural organic matter (NOM) on trace metal speciation in natural freshwaters. Environmental Science and Engineering Research Conference. Gananoque, ON. January 14.

Mueller, K.K., P.G.C Campbell and C. Fortin. 2006. The effect of dissolved organic matter (DOM) on trace metal speciation of cadmium (Cd), nickel (Ni) and zinc (Zn) in lakes in the Rouyn-Noranda region of QC. SETAC North America, Annual Meeting. Montréal, QC. November 5-9.

Niyogi, S., G.G. Pyle, and C.M. Wood. 2006. Branchial versus intestinal zinc uptake in wild metal-impacted and reference yellow perch (*Perca flavescens*) population. 45th Annual meeting of the Canadian Society of Zoologists, University of Alberta. Edmonton, AB. May 2-7.

Niyogi, S., G.G. Pyle and C.M. Wood. 2006. Waterborne and dietary zinc uptake and regulation in wild metal-impacted yellow perch (*Perca flavescens*). SETAC 27th Annual Meeting. Montréal, QC. November 5-9.

Palace V., G. Sterling, P. Siwik, R.E. Evans, N. Halden, K.G. Wautier and J. Holm. 2006. Limitations of non-lethal sampling for determing spatiotemporal exposure to selenium in fish from mine impacted sites. Aquatic Toxicity Workshop. Jasper, AB. October.

Parsons, M. B., G.E.M. Hall, C. Daniels, M.C. Corriveau, H.E. Jamieson, P.K. Smith, T.A. Goodwin, J.B. Percival, J.E. Vaive and P. Pelchat. 2006. Speciation, transport, and fate of arsenic in the Seal Harbour gold districts, NS. Geological Society of America, Annual Meeting. Philadelphia, PA, USA. October.

Petrie, S. 2006. LPWWRF research program. Delta Waterfowl Summer Student Seminars. Delta, MB. July 9-10.

Petrie, S. and S. Badzinski. 2006. Contaminant burdens in lesser and greater scaup staging in the lower Great Lakes. MITHE-SN Annual Research Symposium. Gatineau, QC. January 24-25.

Petrie, S. and S. Badzinski. 2006. Contaminant burdens in lesser and greater scaup staging on the lower Great Lakes. Second scaup workshop. Bismarck, ND, USA. January 17-19.

Petrie, S. and S. Badzinski. 2006. Contaminant burdens in lesser and greater scaup staging on the lower Great Lakes. Wildlife Society Conference. Anchorage, AK, USA. September 19-26.

Proulx, I. and L. Hare. 2006. Metal concentrations in cohabiting chironomids. SETAC North America Annual Meeting. Montréal, QC. November 5-9.

Pyle, G., N.D. Carreau, T.J. Doederlein, W. Green, A.S. Hillman, K. Hunter, R.S. Mirza and C.M. Wood. 2006. Making 'non-scents' of scented waters: metal effects on chemosensation among aquatic animals. SETAC 27th Annual Meeting. Montréal, QC. November 5-9.

Pyle, G.G. 2006. Metal-impaired chemosensory function in aquatic animals. Presented at the 89th Annual Canadian Chemistry Conference and Exhibition. Halifax, NS. May 27–31.

Pyle, G.G., N. Carreau, T. Doederlein, W. Green, A. Hillman, K. Hunter and R. Mirza. 2006. Metal-induced chemosensory dysfunction among aquatic animals representing three trophic levels typical of northeastern ON lakes. Presented at the 11th Annual Meeting of SETAC Laurentian, Laurentian University. Sudbury, ON. May 18-19.

Saunders, J., I. Koch and K. Reimer. 2006. Arsenic speciation in a small terrestrial food chain on an abandoned gold mine site. MITHE-SN Annual Research Symposium. Aylmer, QC. January 24-25.

Wang, Z., H. Zhang, X.F. Li, J. Zhou and X.C. Le. 2006. Detection of trimethylarsine oxide in urine of acute promeylocytic leukemia patients by liquid chromatography coupled to mass spectrometry. P-098-T. Abstract book p. 69. 30th International Symposium and Exhibit on High performance Liquid Phase Separations and Related Techniques. San Francisco, CA. June 17-22.

Ware, L. and S. Petrie. 2006. Selenium uptake, dynamics, and effects in greater scaup wintering on western Lake Ontario. Delta Waterfowl Summer Student Seminars. Delta, MB. July 9-10.

Yuan, C., Z. Wang, Z, X. Lu, J. Mumford and X.C. Le. 2006. Arsenic speciation analysis in human saliva. International Workshop on Water Contaminants and Health Effects. Edmonton, AB. July 5-8.

2007

Akhter Shathi, F., M. Tenuta, C. Grant and T. McGonigle. 2007. Crop Management Influences on *Arbuscular Mycorrhizal* Fungi Colonization of Durum Wheat. MB Society of Soil Science Meetings. Winnipeg, MB. February 8-9.

Ayotte, P. 2007. Biomarkers, an overview. Nunavik Nutrition and Health Committee - Research update. QC. March 29.

Birceanu, O., J. McGeer and M.P. Wilkie. 2007. Unusual interactions between Pb and Cd at the gills of rainbow trout. 16th Annual Physiology and Biochemistry Workshop. Keene, ON. February.

Birceanu, O., P. Gillis, J. McGeer, J. Chowdhury, C.M. Wood and M.P. Wilkie. 2007. Unexpected interactions between lead and cadmium on rainbow trout (*Oncorhynchus mykiss*) gills. 46th Annual Meeting of the Canadian Society of Zoologists. McGill University. Montréal, QC. May.

Birceanu, O., P.L. Gillis, J. McGeer, J. Chowdhury, C.M. Wood and M.P. Wilkie. 2007. Effects of Pb and Cd mixtures on gill function in rainbow trout (*Oncorhynchus mykiss*). 34th Annual Aquatic Toxicity Workshop. Halifax, NS. October.

Carrier, A., N. Ouellet, E. Dewailly and P. Ayotte. 2007. Relation between methylmercury exposure and serum paraoxonase activity in the Inuit population of Nunavik (Northern QC.). Eleventh International Congress of Toxicology. Montréal, QC. July 15-19.

Cloutier-Hurteau, B., S. Sauvé, et F. Courchesne. 2007. Microbial Influence on Al Speciation in the Rhizosphere of Forest Soils. Rhizosphère 2, Montpellier, France.

Courchesne, F., P. Legrand, N. Kruyts and M.C. Turmel. 2007. Root-induced acidification and trace metal speciation in the rhizosphere of forest soils. Annual Meeting of the Association of American Geographers. San Francisco, CA, USA.

Dubois, M. and L. Hare. 2007. Le transfert des éléments traces (Cd et Se) entre proies et prédateur; rôle de la répartition subcellulaire des éléments chez les proies. SETAC, Chapitre Saint-Laurent, annual meeting. Québec, QC.

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Li, X.S., A. McKnight-Whitford, C.Yuan, X. Lu, K. Lew and X.C. Le. 2007. Speciation of arsenic and vanadium, #041690th. Canadian Society for Chemistry Conference and Exhibition. Winnipeg, MB, May 26-30.

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Nguyen, N., X. Lu and X.C. Le. 2007. Arsenic speciation in *Typha latifolia* using HPLC-ICPMS. #0940. 90th Canadian Society for Chemistry Conference and Exhibition. Winnipeg, MB. May 26-30.

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Petrie, S. and S. Badzinski. 2007. LPWWRF development and our scaup contaminant and satellite tracking research. Pennsylvania Game Commission Annual Waterfowl Symposium. Erie, PA, USA. August 10.

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Turmel, M.-C. et F. Courchesne. 2007. Influence of microbial activity and trace metal speciation in the rhizosphere on metal uptake by wheat. Congrès annuel CSSS/AQSS. Duchesnay, QC.

Vasiluk L. and B. Hale. 2007. Determining bioaccessibility/bioavailability of metal contaminants in soils using Caco-2 cells. MITHE-SN Annual Research Symposium. Aylmer, QC. January 23-24. Poster.

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Walker, S.R., H.E. Jamieson and M.B. Parsons. 2007. Characterization of complex secondary mineral assemblages in arsenic-rich gold mine tailings. Frontiers in Mineral Science. Cambridge, U.K. June.

Ware, L. and S. Petrie. 2007. Selenium uptake and effects in greater scaup wintering on western Lake Ontario. Delta Waterfowl Annual Research Symposium. Delta, MB. July 6.

Ware, L. and S. Petrie. 2007. Selenium uptake and effects in greater scaup wintering on western Lake Ontario. Hamilton Harbour Research and Monitoring Workshop, CCIW. Burlington, ON. January 18.

Wilkie, M.P., A.R. Winter and R.C. Playle. 2007. Multiple metal interactions with fish gills and natural organic matter. MITHE-SN Annual Research Symposium. Alymer, QC. January 23-24. Poster.

Winter, A.R., R.C. Playle, G.G. Dixon, U. Borgmann and M.P. Wilkie. 2007. Comparing metal-gill binding with toxicity when rainbow trout (*Oncorhynchus mykiss*) are exposed to metal mixtures. 34th Annual Aquatic Toxicity Workshop. Halifax, NS. October.

Yuan, C. and X.C. Le. 2007. LC-ICPMS and LC-ESI/MS/MS coupling system for arsenic speciation analysis. 12th Beijing Conference and Exhibition on Instrumental Analysis. Beijing, China. October 18-21.

Yuan, C., X. Lu, X.S. Li, N. Oro, Z. Wang, Y, Xia, T. Wade, J. Mumford and X.C. Le. 2007. Speciation of arsenic and vanadium. #421. XXXV Colloquium Spectroscopicum Internationale. Xiamen, China. September 23-27.

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Alves, L.C., U. Borgmann and D.G. Dixon. 2008. Water-sediment interactions of uranium-spiked sediments and different overlying water chemistry to *Hyalella azteca*. Graduate Student Research Conference, University of Waterloo. Waterloo, ON. April. Platform.

Arthur, L., D. Chan, E. Berkelaar and B. Hale. 2008. Development of best management practices to reduce the likelihood of soybeans accumulating high levels of cadmium. International Association for Food Protection Columbus. OH, USA. August 3-6. Poster.

Berkelaar, E., H. Renkema, A. Koopmans and B. Hale. 2008. Can thallium accumulation by plants be predicted from potassium accumulation? SETAC 5th World Congress Sydney Convention Centre. Sydney, Australia. August 3-7. Poster.

Berkelaar, E., H. Renkema, A. Koopmans, L. Kersbergen and B. Hale. 2008. The effect of transpiration on thallium and selenium accumulation by durum wheat and spring canola. SETAC 5th World Congress Sydney Convention Centre. Sydney, Australia. August 3-7. Platform.

Bernier, J., C. Fortin and P.G.C. Campbell. 2008. Évolution de la distribution intracellulaire du Cd et du Ni chez des algues phytoplanctoniques cultivées en chemostat. SETAC, Chapitre Saint-Laurent annual meeting. QC. Poster.

Bernier, J., C. Fortin and P.G.C. Campbell. 2008. Evolution of Ni, Cd and Tl intracellular distribution in chemostat cultured phytoplankton. SETAC World Congress. Sydney, Australia. August 3-7.

Campbell, P.G.C., L.D. Kraemer, A. Giguère, L. Hare and A. Hontela. 2008. Cadmium and nickel detoxification strategies in chronically exposed wild fish – ERA implications. SETAC World Congress. Sydney, Australia. August 3-7.

Charoensuk, V., C.G. Yuan, W. Gati and X.C. Le. 2008. The association of intracellular arsenic and cytotoxicity in human cells. 91st Canadian Chemistry Conference and Exhibition. Edmonton, AB. May 24-28.

Chen, L.W., L. Lu, and X.C.Le. 2008. Arsenic speciation analysis in human urine from QC. by chromatography and mass spectrometry. 2008 Macgregor Research Day, Department of Laboratory Medicine and Pathology, University of Alberta. Edmonton, AB. October 2.

Hutchins, C.M., D. Simon and K. J. Wilkinson. 2008. Gene induction in *Chlamydomonas reinhardtii* following exposure to trace concentrations of Cd over time and in the presence of copper and lead. SETAC World Conference. Sydney, Australia. August 3-7.

Courchesne, F., M.C. Turmel and B. Cloutier-Hurteau. 2008. Microbes in the rhizosphere and trace metal uptake by wheat. International SETAC Conference. Sydney, Australia. August 3-7.

Cullen, W.R. 2008. The use of quantitative PCR to evaluate the mobility of arsenic in the environment, 5th SETAC World Congress. Sydney, Australia. August 3-7.

DeSisto, S.L., H.E. Jamieson and M.B. Parsons. 2008. Geochemistry of scorodite-bearing hardpan and its significance to arsenic cycling at a former gold mine. 40 (6): 112. In Geological Society of America. Abstract.

Fortin, C., M. Lavoie, S. Le Faucheur and P.G.C. Campbell. 2008. Metal detoxification strategies in two phytoplankton species: thiolated peptides synthesis and Cd sequestration in granules. SETAC World Congress. Sydney, Australia. August 3-7.

Golding, L., U. Borgmann and D.G. Dixon. 2008. Dietary toxicity of cadmium to the freshwater amphipod *Hyalella azteca*: linking Cd in a "living" periphyton diet to bioaccumulation and toxicity. National Institute of Water and Atmospheric Research (NIWA). Hamilton, New Zealand. August 15. Platform.

Grant, C.A., S. Malhi, D. Flaten, S. Sauvé, S. and M. Tenuta. 2008. Impact of crop sequence and phosphorus management on accumulation of cadmium in durum wheat. 5th SETAC World Congress. Sydney, Australia. August 3-7. Platform.

Grant, C.A., S. Malhi, D. Flaten, S. Sauvé and M. Tenuta. 2008. Fertilizer management and preceding crop influence accumulation of cadmium in durum wheat. International Meeting on Soil Fertility, Land Management and Agroclimatology. Kusadasi, Turkey. October 29-November 1. Platform.

Guthrie, J.W., J. Lee, M. Weinfeld and X.C. Le. 2008. Mechanistic investigation of enhanced benzo[a]pyrene induced DNA adducts in the presence of arsenic. AN1, 1380. 91st Canadian Chemistry Conference and Exhibition. Edmonton, AB. May 24-28. Platform.

Hare, L., M.Dubois and J. Dumas. 2008. Transfer of cadmium, nickel, selenium and thallium from two freshwater invertebrates to a predatory insect. SETAC World Congress. Sydney, Australia. August 3-7.

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Hicks, K., B. Vigneault, S. Smith, M. King, A. Mancini, E.J.Costa and J. McGeer. 2008. Cu complexation by natural organic matter: linking chemical properties with biological effects. SETAC Annual Meeting.Tampa. FL, USA. November 16-20. Poster.

Jamieson, H.E., S.R. Walker, M.B. Parsons and G.E.M. Hall. 2008. Characterization of multiple secondary minerals in arsenic-rich gold mine tailings. Goldschmidt Abstract Geochimica et Cosmochimica Acta, Volume 72, Number 12S, A424.

Jamieson, H.E., S.R. Walker, L. Meunier, M.B. Parsons, I. Koch and K.J. Reimer. 2008. The relationship between mineralogy and bioaccessibility in complex arsenic-contaminated materials. SETAC, 5th World Congress, Sydney Convention and Exhibition Centre. Sydney, Australia. August 3-7.

Kara, Y., O. Birceanu and M.P. Wilkie. 2008. Effects of Pb and Cd mixtures on ion balance and toxicity in rainbow trout. 17th Annual Physiology and Biochemistry Workshop. Keene, ON. February.

Kara, Y., O. Birceanu and M.P. Wilkie. 2008. Physiological and toxicological mechanisms of lead plus cadmium exposure on rainbow trout (*Oncorhynchus mykiss*) in soft acidic water. Society of Environmental Toxicology, North America Conference. Tampa, FL, USA.

Lavoie, M., C. Fortin and P.G.C. Campbell. 2008. Régulation de la prise en charge des micronutriments par le phytoplancton. Congrès de la Fédération des étudiants de l'INRS. Québec, QC.

Lavoie, M., S. Le Faucheur, C. Fortin and P.G.C. Campbell. 2008. Importance des stratégies de détoxication aux métaux dans la tolérance au Cd entre différentes espèces phytoplanctoniques. Congrès de l'ACFAS. Québec, QC.

Lavoie, M., S. Le Faucheur, C. Fortin and P.G.C. Campbell. 2008. Importance des stratégies de détoxication aux métaux dans la tolérance au Cd entre différentes espèces phytoplanctoniques. SETAC, Chapitre Saint-Laurent, annual meeting. Québec, QC. June 13.

Lavoie, M., S. Le Faucheur, C. Fortin and P.G.C. Campbell. 2008. Importance of metal detoxification strategies, thiolated peptides synthesis and Cd sequestration in granules, in

explaining differences in Cd sensitivity between two phytoplankton species. Environmental Science and Engineering Research Conference. Gananoque, ON.

Le, X.C., C. Yuan, X. Lu, K. Lew, U. Idiong, X. Li, J. Acker, S. Gabos, W. Cullen and K. Reimer. 2008. Children's exposure to arsenic from playgrounds. 5th SETAC World Congress. Sydney, Australia. August 3-7.

Lew, K., J. Acker and X.C. Le. 2008. Speciation of arsenic in urine and saliva from children playing on pressure-treated wood playgrounds. Page 68. The First-China Symposium on Analytical Chemistry for Life Sciences. Edmonton, AB. August 19-23.

Liu, J., M. Lu and X.C. Le. 2008. Study of arsenic binding proteins using electrospray ionization tandem mass spectrometry. 2008 Macgregor Research Day, Department of Laboratory Medicine and Pathology, University of Alberta. Edmonton, AB. October 2.

Lord-Hoyle, M., L .Meunier, I. Koch, J. Wragg, C. Ollson and K.J. Reimer. 2008. Comparison of three published methods on the bioaccessibility of arsenic and iron. SETAC 5th World Congress, Sydney Convention and Exhibition Centre. Sydney, Australia. August 3-7. Poster.

Lord-Hoyle, M., L. Meunier, I. Koch, J. Wragg, C. Ollson and K.J. Reimer. 2008. Comparison of three published methods on the bioaccessibility of arsenic from nine contaminated substrates. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Lu, M., H. Wang, Z. Wang, X.F. Li and X.C. Le. 2008. Identification of a highly reactive cysteine-13 residue in the alpha chain of rat hemoglobin by collision-induce dissociation tandem mass spectrometry using arsenic labeling. P.79. The First China Symposium on Analytical Chemistry for Life Sciences. Edmonton, AB. August 19-23.

Lu, X., N. Nguyen and X.C. 2008. Arsenic concentration and speciation in cattail plants.p.69. The First China Symposium on Analytical Chemistry for Life Sciences. Edmonton, AB. August 19-23.

Mancini A. and McGeer J. 2008. Gill copper accumulation and toxicity in five species of fish in soft water. Ontario Biology Day. Guelph, ON. March 22. Poster.

McKnight-Whitford, A., and X.C. Le. 2008. Detection of trivalent arsenicals using post column derivatization HPLC-ESI-MS/MS.p.70, The First China Symposium on Analytical Chemistry for Life Sciences. Edmonton, AB. August 19-23.

McKnight-Whitford, A. and X.C. Le. 2008. Determination of trivalent arsenicals using post column derivatization electrospray tandem mass spectrometry. 5th SETAC World Congress, Society for Environmental Toxicology and Chemistry. Metal Speciation and Bioavailability Session. Sydney, Australia. August 3-7. Platform

McKnight-Whitford, A. and X.C. Le. 2008. Determination of trivalent arsenicals using post column derivatization electrospray tandem mass spectrometry. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23. Poster.

Meunier, L., M. Lord-Hoyle, S.R.Walker, I. Koch, J. Wragg, H.E. Jamieson, M.B. Parsons and K.J. Reimer. 2008. Choosing a robust method to estimate the bioaccessibility of arsenic from contaminated substrates. SETAC, 5th World Congress, Sydney Convention and Exhibition Centre. Sydney Australia, August 3-7. Poster.

Meunier, L., S.R. Walker, R. Gordon, I. Koch, H.E. Jamieson, M.B. Parsons and K.J. Reimer. 2008. Mineralogy and bioaccessibility of arsenic in tailings and soil from NS gold mines. Advanced Photon Source Advisory Council Review of Environmental, Geo- and Planetary Sciences at X-Ray Operations and Research Supported sectors. Argonne, IL, USA. July 9-10. Poster.

Meunier, L., S.R. Walker, I. Koch, H.E. Jamieson, M.B. Parsons and K.J. Reimer. 2008. Mineralogy and bioaccessibility of arsenic in tailings and soil from NS gold mines. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Miller L., H. Xiaoxi, A.Hontela, J.B. Rasmussen, V.P. Palace and F. Wang. 2008. Environmental Impact Assessment of Selenium in the Canadian Prairie Ecosystems. 5th SETAC –World Congress. Sydney, Australia. August 3-7.

Miller L.L., J.B. Rasmussen, V.P. Palaceand A. Hontela. 2008. Using species comparisons in ecotoxicology – the effect of selenium on cortisol secretion in rainbow trout and brook trout. International Symposium on Fish Endocrinology. Calgary, AB. June 22-27.

Miller L.L., F. Wang, V.P. Palace, J.B. Rasmussen and A. Hontela. 2008. Physiological and biochemical responses of rainbow trout and brook trout exposed to elevated selenium from coal mines. Aquatic Toxicity Workshop. Saskatoon, SK.

Mirza, R., P. Ryan, W. Green, M. Martinez, C. Wood and G. Pyle. 2008. Do fish from metal contaminated lakes exhibit olfactory-mediated behaviours? Predator recognition, survival and olfactory recovery. 5th SETAC World Congress, Sydney Conference and Exhibition Centre. Sydney, Australia. August 3-7.

Mirza, R.S., P. Ryan, W.W. Green, M.L. Martinez, C.M. Wood and G.G. Pyle. 2008. Metal contamination impairs olfactory-mediated behaviours in wild fish: predator recognition, survival, and recovery. MITHE-SN Annual Research Symposium. Gatineau, QC. January 22-23.

Moriarty, M., P. Smith, I. Koch and K.J. Reimer. 2008. Localizing biotransformed and stored arsenic within biological matrices. MITHE-SN Annual Research Symposium. Gatineau, QC. January 21-23.

Moriarty, M., R.A. Gordon, I. Koch and K.J. Reimer. 2008. Arsenic speciation in -iInsects and small animals collected near contaminated mine sites. SETAC North America, 29th Annual Conference. Tampa Bay, FL, USA. November 17-20. Poster.

Moriarty, M., R.A. Gordon, I. Koch and K.J. Reimer. 2008. Localizing biotransformed and stored arsenic within biological matrices. Environmental, Geo- and Planetary Sciences Review, Advanced Photon Source. Argonne, IL, USA. July 9-10. Poster.

Mueller, K.K., P.G.C.Campbell and C. Fortin. 2008. La fluorescence comme outil pour identifier la qualité de la matière organique dissoute (MOD) dans les eaux douces. SETAC, Chapitre Saint-Laurent annual meeting. Québec City, QC.

Mueller, K.K., and P.G.C. Campbell, C. Fortin. 2008. Measured and modeled chemical speciation of Cd, Cu, Ni, and Zn in Canadian Precambrian Shield lakes and the influence of dissolved organic matter (DOM). Environmental Science and Engineering Research Conference. Gananoque, ON.

Murray, H. and S. Macfie. 2008. Bioavailability of metals in urban garden soils. SETAC World Congress. Sydney, Australia. August 3-7.

Naranmandura, H., K.T. Suzuki, W. Weinfeld and X.C. Le. 2008. Evidence for toxicity difference in human bladder cancer cells between inorganic arsenite and thioarsneicals. 2008 Macgregor Research Day, Department of Laboratory Medicine and Pathology, University of Alberta. Edmonton, AB. October 2. Platform.

Nguyen, N., X. Lu and X.C. Le. 2008. Arsenic speciation in Typha latifolia using HPLC-ICPMS. P.60. The First China Symposium on Analytical Chemistry for Life Sciences. Edmonton, AB. August 19-23.

Niu, J., P.E. Rasmussen and M. Chénier. 2008. Metals in ultrafine and nano-sized urban airborne particles: Concentration distribution and bioaccessibility assessment, 59th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON-2008), 820-38P. New Orleans, LA, USA. March 1-7.

Niyogi, S., R. Kent and C.M. Wood. 2008. Influence of water chemistry on gill accumulation and acute toxicity of cadmium in rainbow trout (*Oncorhynchus mykiss*): development of an acute cadmium biotic ligand model (BLM). SETAC Annual Meeting. Tampa, FL, USA. November 12-16.

Petrie, S., S. Badzinski, N.Belzile, Y.W. Chen, L. Ware and C. Brady. 2008. Food chain transfer of selenium in waterfowl. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Ponton, D. and L Hare. 2008. Développement d'un biomoniteur pour estimer les concentrations de nickel biodisponibles en milieu lacustre. SETAC, Chapitre Saint-Laurent, annual meeting. Québec City, QC.

Ponton, D. and L. Hare. 2008. Monitoring nickel contamination in lakes using the phantom midge Chaoborus. SETAC World Congress. Sydney, Australia. August 3-7.

Proulx, I. and L. Hare. 2008. Études des contaminants: l'importance de reconnaître qu'il existe des différences entre espèces. SETAC, Chapitre Saint-Laurent, annual meeting, Québec, QC.

Proulx, I. and L. Hare. 2008. Why bother to identify animals used for contaminant monitoring? SETAC world congress. Sydney, Australia. August 3-7. Platform.

Pyle, G.G., R.S. Mirza and C.M. Wood. 2008. Development of a chemosensory-based biotic ligand model for fish. Presented at the 47th Annual Meeting of the Canadian Society of Zoologists (CSZ), Mount St. Vincent University. Halifax, NS. May 19-23.

Saunders, J., Knopper, L., Koch, I. and Reimer, K. 2008. Arsenic biotransformation and biomarkers of arsenic exposure in meadow voles (*Microtus pennsylvanicus*) living at abandoned gold mine sites. MITHE-SN Annual Research Symposium. Aylmer, QC. January 22-23.

Schwertfeger, D.M. and W.H. Hendershot. 2008. Differences in copper bioavailability and toxicity in leached and non-leached copper-spiked test soils. SETAC World Congress. Sydney, Australia. August 3-7.

Thompson, K. and S. Macfie. 2008. Species-specific patterns of metal bioavailability in edible plants. SETAC World Congress. Sydney, Australia. August 3-7.

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