

PLATFOM PRESENTATIONS – MONDAY

8:30-10:10	<p>WELCOME            PLENARY SPEAKER: Bob McDonald            AWARDS            (Grand Ballroom)</p>			
10:10-10:40	COFFEE BREAK (Junior Ballroom Foyer)			
Room:	<b>Junior Ballroom A/B</b>	<b>Junior Ballroom C</b>	<b>Junior Ballroom D</b>	<b>Grand Ballroom</b>
	<b>Behavioural Toxicology</b>	<b>Directing the future of pesticide research</b>	<b>Multi-Generation Ecotoxicology and Epigenetics</b>	<b>Latest advances in metal bioavailability and toxicity to aquatic organisms</b>
10:40-11:00	The lasting effects of developmental crude oil exposure on ecologically relevant behaviours in the sheepshead minnow   <b>Keith Tierney</b>	On the toxicity of the lampricide TFM in fish: the role of life stage, water chemistry and the gill microenvironment   <b>Laura Tessier</b>	Mechanistic underpinnings of epigenetic effects of selenium using rainbow trout ( <i>Oncorhynchus mykiss</i> ) hepatocytes in primary culture   <b>Ankur Jamwal</b>	Geochemical speciation and toxicity of Ni in seawater and development of a biotic ligand model   <b>Jim McGeer</b>
11:00-11:20	Exposure to oil sands process-affected water (OSPW) alters shoaling behaviour in zebrafish ( <i>Danio rerio</i> )   <b>Trevor Hamilton</b>	Neonicotinoids alter leukocyte profiles and measures of oxidative stress in a native amphibian, <i>Lithobates pipiens</i>   <b>Stacey Robinson</b>	Diluted bitumen vs. conventional crude oil: effects of developmental exposure on progeny of exposed zebrafish   <b>Keith Tierney</b>	Acute and chronic toxicity of technology critical elements to aquatic biota   <b>Jim McGeer</b>
11:20-11:40	The toxicity of sediment-bound dilbit to freshwater amphipods ( <i>Hyalella azteca</i> )   <b>Sean Everitt</b>	The effects of triclopyr application on habitat quality on northern Saskatchewan transmission rights-of-way   <b>Chelsea Voinorosky</b>	Long-term programming shift: Venlafaxine impacts larval behaviour in multiple generations of zebrafish   <b>Andrew Thompson</b>	Toxicity and bioaccumulation of rare earth metals in <i>Daphnia magna</i>   <b>Marge Muna</b>
11:40-12:00	Maternal exposure to dietary selenomethionine led to dopaminergic hyperfunction and learning impairment in zebrafish offspring   <b>Mohammad Naderi</b>	Does citation bias exist in the pesticide ecotoxicology literature?   <b>Ryan S Prosser</b>	Response to AHR ligands in liver slices cultured from naïve and pre-treated chicken embryos; does DNA methylation play a role?   <b>Jessica Head</b>	Competition between rare earth elements and other ubiquitous trivalent metals for uptake and toxicity in algae: Lanthanum and iron as example.   <b>Imad Aharchaou</b>
12:00-1:30	<p>LUNCH            PLENARY SPEAKER: Tyson Atleo            (Grand Ballroom)</p>			

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Room:	Junior Ballroom A/B	Junior Ballroom C	Junior Ballroom D	Grand Ballroom
1:30-1:50	<b>Behavioural Toxicology</b>	<b>Directing the future of pesticide research</b>	<b>Environmental monitoring of biota and water in the Athabasca oil sands</b>	<b>Latest advances in metal bioavailability and toxicity to aquatic organisms</b>
	The effects of salmonid aquaculture anti-sea lice chemotherapeutants on non-target benthic organism growth and behaviour   <b>Samantha Lundquist</b>	Applying the Bradford Hill Criteria to the risk assessment of pesticides: A case study with thiamethoxam   <b>Mark Hanson</b>	Effects of diluted bitumen on the intertidal vascular plant, <i>Zostera marina</i>   <b>Jessica Banning</b>	Does metal-metal competition for binding to <i>Daphnia magna</i> explain less-than-additive acute toxicity in Cd-Ni mixtures?   <b>Joseph Meyer</b>
1:50-2:10	Avoidance response of the benthic marine polychaete <i>Nereis virens</i> to aquaculture chemotherapeutant-contaminated sediment   <b>Lindsay Woof</b>	Breaking the cycle: What the neonicotinoid issue should be teaching us about the need for a more rational management of pesticides in agriculture   <b>Paul Sibley</b>	The effects of diluted bitumen and the dispersant Corexit® 9500A on eelgrass ( <i>Zostera marina</i> )   <b>Camelia Tavakoli</b>	Investigation of metal mixture (Zn, Cu and Cd) interactions in the rainbow trout gill using synchrotron based techniques   <b>Som Niyogi</b>
2:10-2:30	Something smells funny: thyroid hormone disruption and the olfactory system in bullfrog tadpoles   <b>Caren Helbing</b>	<b>The R's of Contaminated Soils: Remediation, Reclamation and Risk Assessment</b>	The effects of diluted bitumen on the developmental stages of the intertidal brown alga, rockweed ( <i>Fucus distichus</i> )   <b>Ranah Chavoshi</b>	The single and combined effects of forest fire runoff and sediment-bound copper on survival and growth in the freshwater amphipod, <i>Hyalella azteca</i>   <b>Raegan Plomp</b>
		Life history and cellular energy reserve to understand <i>Oppia nitens</i> (a soil oribatid mite) responses to chemical stress in the soil   <b>Hamzat Fajana</b>		
2:30-2:50	Rainbow trout ( <i>Oncorhynchus mykiss</i> ) chemosensory detection of and reactions to copper nanoparticles and copper ions   <b>Parastoo Razmara</b>	Brownfield risk assessment in Canada: A comparison of provincial guidance for contaminated soils   <b>Theresa Phillips</b>	Effects of oil sands chemicals of concern on early life stages of fish and amphibians: Results from outdoor aquatic mesocosm experiments   <b>Diane Orihel</b>	Understanding the fate and effects of metal-bound dusts at abandoned mine sites   <b>Carrie Rickwood</b>
2:50-3:20	<b>BREAK (Junior Ballroom Foyer)</b>			
3:20-3:40	The neuroprotective role of P-glycoprotein in teleost fish: A behaviour time-analyses   <b>Vinicius Cavicchioli Azevedo</b>	Soil invertebrate avoidance identifies petroleum hydrocarbon contaminated soils toxic to sensitive plant species   <b>Amy Gainer</b>	Methylmercury in amphibians and their breeding ponds in northeast Alberta and the Northwest Territories   <b>Danna Schock</b>	Investigating climate change impacts on metal-contaminated sediments   <b>Carrie Rickwood</b>
3:40-4:00	Early lifestage zebrafish behaviour as high-throughput tools in ecotoxicology   <b>Patrick Gauthier</b>	Terrestrial ecotoxicology of selenium and influence of soil sulphate concentrations   <b>Anthony Knafila</b>	Evaluating the co-dispersion of mercury sources and wildlife exposures in the Athabasca Oil Sands region.   <b>Bruce Pauli</b>	DGT-labile copper monitoring above lake sediments impacted by the 2014 Mount Polley Mine tailings storage facility breach   <b>David Semeniuk</b>
4:00-4:20	<b>Mixtures: – Dosing, Results and Risk Assessment</b>	Does zinc matter: habitat quality's influence on the toxicodynamics and toxicokinetics of zinc to the mite, <i>Oppia nitens</i>   <b>Olukayode Jegede</b>	Using community-based methodologies inking Traditional Ecological Knowledge and western science knowledge systems to monitor freshwater clams in Alberta's Athabasca oil sands   <b>Debra Hopkins</b>	Mystery of the naturally selenized fish   <b>Liz Ashby</b>
	Toxicity of gasoline and diesel-related petroleum hydrocarbons to freshwater and marine organisms   <b>Curtis Eickhoff</b>			

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	<b>Mixtures: – Dosing, Results and Risk Assessment</b>	<b>The R’s of Contaminated Soils: Remediation, Reclamation and Risk Assessment</b>	<b>Environmental monitoring of biota and water in the Athabasca oil sands</b>	<b>Latest advances in metal bioavailability and toxicity to aquatic organisms</b>
4:20-4:40	Utilization of metal bioaccumulation to assess metal mixture impacts: Site-specific assessment and toxic identification evaluation.   <b>Warren Norwood</b>	Effects driven assessment and management of complex operating sites   <b>Natacha Hogan</b>	Developing triggers to adapt fish environmental effects monitoring programs in the Lower Athabasca River   <b>Bruce Kilgour</b>	Influence of water quality on copper and cadmium toxicity to fish olfaction   <b>Greg Pyle</b>
4:40-5:00	Soil enzymatic responses to metal mixture species   <b>Kobby Awuah</b>	Discussion	Discussion	Discussion
5:00-7:00	POSTER SESSION (Junior Ballroom Foyer)			

PLATFOM PRESENTATIONS – TUESDAY

Room:	Junior Ballroom A/B	Junior Ballroom C	Junior Ballroom D	Grand Ballroom
8:30-8:50	<p><b>General Ecotoxicology</b></p> <p>Online monitoring of copper toxicity using a microbial fuel cell-based biosensor   <b>Ademola Adekunle</b></p>	<p><b>Science and Decision Making (how science is used to support decisions, policy and regulation development)</b></p>	<p><b>Developments in Bioaccumulation Science</b></p> <p>A framework for the risk assessment of bioaccumulative substances at non-high risk sites in BC   <b>Michelle Anderson</b></p>	<p><b>Advances in Environmental Quality Guidelines, Objectives and Benchmark</b></p> <p>Current status and future directions for Canadian Environmental Quality Guidelines   <b>Joanne Little</b></p>
8:50-9:10	<p>Effects of Faro Mine discharge on a downstream aquatic community   <b>Dave Huebert</b></p>	<p>Development of a new standardized test using a marine invertebrate   <b>Leana Van der Vliet</b></p>	<p>Development and application of an in vivo test for estimating biotransformation rate constants and bioconcentration factors of hydrophobic organic chemicals in fish   <b>Marianna DiMauro</b></p>	<p>Update on federal Environmental Quality Guidelines - what's new   <b>Tamzin El-Fityani</b></p>
9:10-9:30	<p>Giant Mine and the tale of two fishes: A long-term study from one of Canada's largest legacy sites   <b>Tamara Darwish</b></p>	<p>pH stabilization during trout acute lethality testing of pulp and paper effluent: A government/industry success story   <b>Rick Scroggins</b></p>	<p>Quantitative in vitro to in vivo extrapolation of biotransformation rates for bioaccumulation assessment: Focus on organic sunscreen agents in trout   <b>Leslie Saunders</b></p>	<p>A statistical evaluation of the safety factor and species sensitivity distribution approaches to deriving environmental quality guidelines   <b>Barry Zajdlik</b></p>
9:30-9:50	<p>Baseline toxicity of surface waters from proposed metal mine site in standardized aquatic toxicity tests   <b>Michael McKay</b></p>	<p>Dissolved oxygen relationships of under-ice water column and pore water habitat: implications for environmental guidelines   <b>Eric Luiker</b></p>	<p>Maternal transfer of selenium and the relative sensitivity of embryonic and juvenile birds   <b>Lilly Cesh</b></p>	<p>ssdca: An R package and web-page to calculate Species Sensitivity Distributions   <b>Joseph Thorley</b></p>
9:50-10:10	<p>Assessment of radiological dose rates to aquatic organisms in the vicinity of Canadian nuclear power plants located near two Great Lakes   <b>Hemendra Mulye</b></p>	<p>Estimating background concentrations of inorganics in surface water to inform ecological risk assessment under the <i>Canadian Environmental Protection Act, 1999</i>   <b>Rachel Bouwhuis</b></p>	<p>Trophic magnification of perfluorinated compounds within a terrestrial food-web of an avian top predator, the Cooper's Hawk (<i>Accipiter Cooperii</i>)   <b>Katharine Fremlin</b></p>	<p>The relevance of amphibians in water quality guideline derivation: a case study using copper   <b>Ali Azizishirazi</b></p>
10:10-10:40	<b>COFFEE BREAK (Junior Ballroom Foyer)</b>			
10:40-11:00	<p>Assessing Toronto Harbour sediment quality using a tetrad approach   <b>Kathleen Stevack</b></p>	<p>Five phases of aquatic monitoring at the Giant Mine: Are we making better decisions when science is used?   <b>Elaine Irving</b></p>	<p>Ecosystem level characterization of selenium exposure and trophic transfer in a representative boreal lake food web   <b>Stephanie Graves</b></p>	<p>Comparing empirical and mechanistic approaches to bioavailability modeling   <b>Kelly Croteau</b></p>
11:00-11:20	<p>Effects of Greater Victoria municipal sewage discharges on marine finfish and shellfish health and tissue quality   <b>Martin Davies</b></p>	<p>An integrated approach to water management and establishment of water quality benchmarks: Prediction to practice   <b>Nigel Fisher</b></p>	<p>Bioaccumulation of PCBs in the southern resident killer whale food - web   <b>Robyn Pearce</b></p>	<p>Multiple linear regression models for predicting aluminum and iron toxicity to freshwater aquatic life   <b>David DeForest</b></p>

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	<b>General Ecotoxicology</b>	<b>Science and Decision Making (how science is used to support decisions, policy and regulation development)</b>	<b>Developments in Bioaccumulation Science</b>	<b>Advances in Environmental Quality Guidelines, Objectives and Benchmark</b>
11:20-11:40	Let's go where we can breathe: <i>Gammarus</i> spp. (Amphipoda: Gammaridae) abundance responses to habitat and oxygen variability in eutrophic eastern Canadian estuaries   <b>Kyle Knysk</b>	Discussion	Effects of selenium speciation on bioaccumulation downstream of a biological water treatment plant   <b>Adrian de Bruyn</b>	A global perspective on determining bioavailability-based Water Quality Guidelines for nickel   <b>Chris Schlekat</b>
11:40-12:00	Withdrawn	<b>Advances in Omics for Ecotox: Methods and Application</b> EcoToxChip: A toxicogenomics tool for chemical prioritization and environmental management   <b>Markus Hecker</b>	Discussion	Determining permissible discharges when water quality guidelines vary over time . . . or . . . Time variable WQG: What's the number?   <b>Robert Santore</b>
12:00-1:30	LUNCH and PLENARY SPEAKER: Dr. Peter Ross (Grand Ballroom) / STUDENT MENTOR LUNCH MIXER (Parksville)			
1:30-1:50	The effects of diluted bitumen on the survival, swimming performance, and hepatic gene expression of juvenile sockeye salmon ( <i>Oncorhynchus nerka</i> ) during embryonic development   <b>Feng Lin</b>	Selenomethionine induced molecular toxicity in the fathead minnow ( <i>Pimephales promelas</i> )   <b>Derek Green</b>	<b>Macro and micro plastics in the Pacific Northeast; the true extent of the problem</b> Microplastic Accumulation in British Columbia Blue Mussels ( <i>Mytilus edulis</i> )   <b>Julie Dimitrijevic</b>	Investigating a percent change from background condition approach to potentially derive a water quality guideline for water hardness   <b>Sarah Bogart</b>
1:50-2:10	Assessing the effects of environmentally relevant concentrations of antidepressant mixtures to fathead minnows exposed over a full life cycle   <b>Joanne Parrott</b>	Alteration of secreted miRNA from stressed rainbow trout identified via high throughput sequencing   <b>Heather Ikert</b>	Microplastic source identification: FTIR library development and material degradation during the controlled weathering study.   <b>Katerina Vassilenko</b>	Evaluation of statistical methods for comparing two groups with single and multiple detection limits   <b>Jeffrey Row</b>
2:10-2:30	Investigation of the toxicity of novel fire suppression gels to <i>Daphnia magna</i> , <i>Hexagenia</i> spp., and <i>Onchorynchus mykiss</i>   <b>Sarah Graetz</b>	Transcriptomics as an early warning indicator of neonicotinoid insecticide exposure of the mayfly ( <i>Hexagenia</i> spp.)   <b>Caren Helbing</b>	Microplastic pathways: secondary WWTPs as a source or microplastics in the environment   <b>Anna Posacka</b>	Chronic toxicity of rare earth elements to amphipods ( <i>Hyalella azteca</i> ), cladocerans ( <i>Ceriodaphnia dubia</i> ) and coho salmon ( <i>Oncorhynchus kisutch</i> )   <b>Josh Baker</b>
2:30-2:50	Investigations into the mechanism of life-stage and species specific differences in the sensitivity of rainbow trout and white sturgeon to copper   <b>Kamran Shekh</b>	The effects of waterborne chromate6+ on mRNA expression patterns in Lake Trout ( <i>Salvelinus namaycush</i> )   <b>Jim Sherry</b>	Canaries of the sea; are microplastics the final challenge to shellfish?   <b>Leah Bendell</b>	Site-specific acute toxicity of chloride associated with effluent discharge to northern surface water   <b>Gary Lawrence</b>
2:50-3:20	BREAK (Junior Ballroom Foyer)			

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	<b>General Ecotoxicology</b>	<b>Advances in Omics for Ecotox: Methods and Application</b>	<b>Alternative approaches to adult fish survey in EEM programs</b>	<b>Advances in Environmental Quality Guidelines, Objectives and Benchmark</b>
3:20-3:40	Effects of bisphenol A and its analogs bisphenol F and S on life parameters, antioxidant system, and response of defensome in the marine rotifer <i>Brachionus koreanus</i>   <b>Jun Chul Park</b>	The effects of waterborne chromate (Cr6+) on protein abundance patterns in Lake Trout ( <i>Salvelinus namaycush</i> )   <b>Denina Simmons</b>	Complex receiving environments: prospects for a mummichog ( <i>Fundulus heteroclitus</i> ) development and reproductive bioassay as a scientifically-defensible alternative to adult fish surveys in environmental effects monitoring   <b>Tim Vickers</b>	Influence of water hardness and cation/anion mixture on chloride coxicity to aquatic life   <b>Anthony Knafila</b>
3:40-4:00	Molt stage sensitivity of the Pacific spot prawn, <i>Pandalus platyceros</i> , to an anti-sea lice formulation Salmosan®   <b>Katherine Mill</b>	Metabolomic responses in tree swallows ( <i>Tachycineta bicolor</i> ) to local contaminant exposure within the Great Lakes   <b>Heather Butler</b>		Managing non-toxic contaminants with non-toxic endpoints : Total phosphorus   <b>Neil Hutchinson</b>
4:00-4:20	Effects of the aquaculture chemotherapeutant formulation SLICE® (emamectin benzoate) on the spot prawn ( <i>Pandalus platyceros</i> )   <b>Steven Barrett</b>	Hepatic proteome and toxic response of early-life stage rainbow trout ( <i>Oncorhynchus mykiss</i> ) to the aquatic herbicide, Reward®   <b>Lisa McCuaig</b>	Abatement of inhibitory effects on fathead minnow egg production by increased solids retention time in an activated sludge effluent treatment   <b>Pierre Martel</b>	Toxicity tests in support of the derivation of non-radiological acceptance criteria for ruthenium and rhodium in water and soil   <b>Lisa Taylor</b>
4:20-4:40	The sublethal effects of the anti-sea lice pesticides ivermectin and SLICE® on the swim performance, camouflage and avoidance behaviour of the starry flounder ( <i>Platichthys stellatus</i> ) following exposure to contaminated sediments   <b>Daniel King</b>	Toxicity of Reward® herbicide to <i>Pimephales promelas</i> : Pulsed application with proteomic profile   <b>Michael Moreton</b>	Estimated fish mortality caused by metal mining EEM lethal fish population surveys and an evaluation of the non-lethal alternative   <b>Alyse Kambeitz</b>	Field testing and monitoring of soil invertebrates: recent developments   <b>Joerg Roembke</b>
4:40-5:00	Acute and sub-chronic effects of neonicotinoids on Northwestern Salamander larvae.   <b>Blake Danis</b>	Using metagenomics to evaluate ecosystem health and recovery; Sediments from Quesnel Lake impacted by a major mine tailings spill as a case study   <b>Ido Hatam</b>	If historic marine pollution ceases, will the natural intertidal community return? How exposure to and release from pollution disturbance shapes rocky intertidal communities in British Columbia   <b>Shannon Bard</b>	Characterization of sediment chemistry, toxicity and ecological condition in wadeable streams of the Southeastern United States.   <b>Patrick Moran</b>
5:00-7:00	POSTER SESSION (Junior Ballroom Foyer)			
7:00-Late	BANQUET (Grand Ballroom) - ticket required			

PLATFOM PRESENTATIONS – WEDNESDAY

Late start (8:50)		
Room:	Junior Ballroom A/B	Junior Ballroom D
	<b>Watershed-Based Monitoring &amp; Assessment</b>	<b>Molecular Methods In Environmental Monitoring and Impact Assessment</b>
8:50-9:10	An adaptive environmental effects monitoring framework for assessing the influences of liquid effluents on benthos, water and sediments in aquatic receiving environments   <b>Keith Somers</b>	Environmental DNA from a consultant's perspective   <b>Shannon Bard</b>
9:10-9:30	Aquatic site characterization and monitoring using passive sampling technology in Point Pelee National Park, Ontario, Canada.   <b>Tara Bortoluzzi</b>	Critical considerations in detecting environmental DNA (eDNA): A lab perspective   <b>Caren Helbing</b>
9:30-9:50	Pharmaceuticals and estrogenic compounds in Manitoba rivers and wastewater treatment plant influent/effluent   <b>Andrew Burton</b>	eDNA studies: A statistician's perspective   <b>Mary Lesperance</b>
9:50-10:10	Pollution Tracker: British Columbia's coast-wide pollution monitoring network   <b>Kelsey Delisle</b>	The caudal fin and transcriptome analysis as a non-lethal means of determining biological effects of oil spills in Pacific salmon   <b>Jacob Imbery</b>
10:10-10:30	Cyanolichens on conifers as indicators of air quality in the Kitimat Valley   <b>Patrick Williston</b>	Temporal changes in brook trout ( <i>Salvelinus fontinalis</i> ) environmental DNA (eDNA) detection rates in a Grand River Sub-Watershed, Ontario Washington Creek case study   <b>Patricija Marjan</b>
10:30-10:45	<b>COFFEE BREAK (Junior Ballroom Foyer)</b>	
10:45-12:00	<b>Playle Awards</b> <b>AGM</b> <b>Intro to CEW 2019</b> <b>(Grand Ballroom)</b>	
12:00-1:30	<b>LUNCH</b> <b>Eco Talks: A 3MT® Challenge for Professionals + student awards</b> <b>(Grand Ballroom)</b>	