

#### 46<sup>th</sup> Annual Symposium / Le 46<sup>e</sup> symposium annuel

December 11<sup>th</sup> – 12<sup>th</sup>, 2014 Ottawa Convention Centre 55 Colonel By Drive Ottawa, Ontario

## REACTING IN TODAY'S ENVIRONMENT AND PREDICTING TOMORROW'S CHALLENGES

#### REACT: RÉAGIR DANS L'ENVIRONNEMENT D'AUJOURDHUI ET PRÉDIRE LES DÉFIS DE DEMAIN

Organised by / Organisé par SOCIETY OF TOXICOLOGY OF CANADA LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

Programme Committee / Comité du programme Andrew Winkley, Vertex Pharmaceuticals, Chair Christopher Nicol, Queen's University, Member

## Wednesday, Dec 10<sup>th</sup> PM

2:00 - 5:00	STC Board Meeting
7:00	Student Mentoring Session – Room 1526, The Westin Ottawa
	Thursday, Dec 11 <sup>th</sup> AM
7:30	Registration / Continental Breakfast
8:30	<b>David Josephy</b> , University of Guelph, Guelph, ON; President, STC <i>Opening Remarks</i>
Session I:	The Issues and Impacts of Environmental Toxicology on Aboriginal People  Chair: Andrew Winkley, Vertex Pharmaceuticals, USA
8:40	Caleb Behn, Coast Salish Territory Fractured Land: A First Nations View on Hydraulic Fracturing and the Potential Role of Toxicologists to Support Reconciliation
9:10	Pierre Ayotte, Université Laval, Québec, QC Toxicology Issues Facing the Inuit
9:40	<b>Rob Letcher</b> , Environment Canada, Ottawa, ON From Birds to Bears: Emerging Contaminant Complexity and Exposure For Arctic and Great Lakes Wildlife
10:15	Coffee Break and Poster Session (Judging)
11:00	PLENARY LECTURE: Russel Shearer, Aboriginal Affairs and Northern Development Canada The Northern Contaminants Programs: Over 20 years of Toxicology in Action to Protect Aboriginal Peoples
12:00	Lunch and Poster Viewing (No Judging)

## Thursday, Dec 11<sup>th</sup> PM

1:00	Short talk: Maryse Lemaire, McGill University, Montreal, QC Arsenic Exposure Increases Monocyte Adhesion to the Vascular Endothelium, A Pro-atherogenic Mechanism.
1:10	Short talk: <b>Jonathan G. Boucher</b> , Health Canada, Ottawa, ON Bisphenol A β-D-Glucuronide Induces Adipogenesis in Murine and Human Preadipocytes
Session II:	Challenges and Opportunities in <u>in silico</u> and <u>in vitro</u> Predictive Toxicology  Chair: Christopher Nicol, Queen's University, Kingston, ON
1:30	<b>Donna Mendrick</b> , National Center for Toxicological Research, Jefferson, AR, USA <i>In silico</i> and <i>in vitro</i> Predictive Toxicology: Challenges and Opportunities
2:00	Anna Lowit, EPA, Washington, DC, USA Alternative Approaches for the Acute Toxicity Testing
2:30	Coffee Break and Poster Viewing (Judging if required)
3:00	Matt Peters, AstraZeneca, Waltham, MA, USA Predictive <i>in vitro</i> Cardiovascular Techniques
3:30	<b>Alex Tropsha</b> , University of North Carolina, Chapel Hill, NC, USA Hybrid Chemical-Biological Approaches to Toxicity Prediction
4:00	Annual Business Meeting
6:00	President's Reception and STC Awards Heart and Crown, 67 Clarence Street (Byward Market)  ToxTrivia – Challenge your knowledge of toxicology, risk assessment, and the posters at STC-2014!

## Friday, Dec 12<sup>th</sup> AM

8:00

Continental Breakfast

Session III: Michel Charbonneau Memorial Symposium  Chair: Sami Haddad, Université de Montréal			
9:00	<b>Daniel Cyr</b> , INRS-Institut Armand-Frappier, Université du Québec and <b>Sami Haddad</b> , Université de Montréal Introduction		
9:10	Marc-Andre Verner, Université de Montréal, Montréal, QC Pharmacokinetic Modeling in Environmental Epidemiology		
9:40	Coffee Break and Poster Viewing		
10:10	<b>Isabelle Plante,</b> INRS-Institut Armand-Frappier, Université du Québec, QC The Role of Connexins in Hexachlorobenzene-induced Liver and Breast Cancer		
10:40	<b>Thomas Massey</b> , Queen's University, Kingston, ON Perturbation of DNA Repair in Pulmonary Chemical Carcinogenesis		
11:10	Gabriel Plaa Award Lecture: Daniel Cyr, INRS-Institut Armand-Frappier, Université du Québec, QC Understanding the Effect of Environmental Contaminants on Sperm Maturation		
11:40	Short talk: <b>Arno G. Siraki</b> , University of Alberta, Edmonton, AB Unexpected Cytoprotection of Isoniazid against H <sub>2</sub> O <sub>2</sub> Injury		
11:50	Short talk: Aaron A. Witham, University of Guelph, Guelph, ON Chlorination of a Phenolic C8-Guanine Adduct Increases Conformational Rigidity and Targeted Mutagenicity		
12:00	Lunch		

#### Friday, Dec 12<sup>th</sup> PM

# Session IV: The Training Needs of Toxicologists in the 21<sup>st</sup> Century; The NSERC CREATE Training Program - Research in Environmental, Analytical Chemistry and Toxicology (REACT)

Chair: Laurie Chan, University of Ottawa, Ottawa, ON

1:00	<b>Laurie Chan</b> , University of Ottawa, Ottawa, ON The Challenges of Training the Next Generation of Toxicologists
1:20	<b>Kurunthachalam Kannan</b> , Wadsworth Center, Albany, NY, USA Human Exposure to Emerging Chemicals
1:50	Jules Blais, University of Ottawa, Ottawa, ON Environmental Contamination from Oil Sands Development
2:20	Coffee Break
2:40	Chris Le, University of Alberta, Edmonton, AB New Trends of Bioanalytical Techniques for Biomarkers
3:10	Carole Yauk, Health Canada, Ottawa, ON Application of New "Omics" Methods in Regulatory Toxicology
3:40	<b>Richard Becker</b> , American Chemistry Council, Washington, DC, USA Improving Risk Assessment Polices and Practices to Meet the Challenges Posed by 21 <sup>st</sup> Century Science
4:10	<b>David Josephy</b> , University of Guelph, Guelph, ON; President, STC Concluding Remarks