

1st Interdisciplinary Cyanobacterial Bloom Workshop

Milton (ON), Canada

Wednesday April 26th

8:30	Registration and coffee
9:00	Opening remarks
9:10	Keynote Cyanotoxins 1 - Tim Davis, National Oceanic and Atmospheric Administration <i>Combining advanced molecular techniques and near real-time instrumentation to monitor cyanoHABs and microcystins in Lake Erie</i>
9:40	Cyanotoxins 2 - Dorothy Huang, Alberta Centre for Toxicology <i>Methodologies for the Alberta Cyanotoxin Monitoring</i>
10:00	Cyanotoxins 3 - Banu Ormeci, Carleton University <i>Monitoring and measurement of microalgae using first derivative of absorbance and comparison with chlorophyll extraction method</i>
10:20	Morning break
10:50	Cyanotoxins 4 - Stuart Oehrle, Northern Kentucky University/Waters <i>Analysis of Cyanobacterial Toxins in Recreational and Drinking Water using UPLC/MS/MS Detection</i>
11:10	Cyanotoxins 5 - Audrey Roy-Lachapelle, Université de Montréal <i>New strategies for the determination of cyanotoxins in lake water and fish using high resolution mass spectrometry</i>
11:30	Cyanotoxins 6 - Ralph Hindle, Vogon Labs <i>Non-targeted LC/QTOF Analysis of Microcystins Using the All-Ions Acquisition Technique</i>
11:50	Cyanotoxins 7 - David Kinniburgh, Alberta Centre for Toxicology <i>Alberta Cyanobacteria Beach Monitoring Program – Microcystins</i>
12:10	Lunch
13:00	Keynote Cyanotoxins 8 - Chris Miles, National Research Council of Canada <i>Microcystin conjugates of thiols: formation, stability, reactivity and implications for analysis and toxicology</i>
13:30	Cyanotoxins 9 - Herb Schellhorn, McMaster University <i>Use of DNA metagenomic sequencing and conserved signature sequences to characterize harmful algal blooms in Ontario Lakes</i>
13:50	Cyanotoxins 10 - Xavier Ortiz, MOECC <i>A high throughput method for the analysis of microcystins and anatoxin-A using on-line SPE coupled to LC-QToF MS</i>
14:10	Cyanotoxins 11 - Ethan Paschos, McMaster University <i>Use of high-resolution DNA metagenomics to identify cyanobacteria in algal blooms occurring in the Ontario lakes</i>
14:30	Cyanotoxins 12 - Moustapha Oke, MOECC <i>Determination of Microcystins in Drinking Water by Enzyme-Linked Immuno Sorbent Assay (ELISA) – MOECC Interlaboratory studies from 2013-2016</i>
14:50	Afternoon break
15:10	Keynote Toxicology 1 - Olga Pulido, University of Ottawa <i>Phycotoxins by Harmful Algal Blooms (HABs): A Public Health Threat</i>
15:40	Toxicology 2 - Denis Gris, Université de Sherbrooke <i>Neuroinflammatory effects of Algal Toxins</i>
16:00	DW treatment 1 - Victoria Calling, Walkerton Clean Water Centre <i>Small drinking water systems and cyanobacteria toxins</i>
16:20	DW treatment 2 - Ron Hofmann, University of Toronto <i>Accumulation of cyanobacteria and cyanotoxins in low-risk water treatment plants</i>
16:40	End day 1

Thursday April 27th

8:30	Registration and coffee
9:00	Keynote HABs 1 - George Bullerjahn, Bowling Green State University <i>Toxic Planktothrix blooms in the Lake Erie watershed</i>
9:30	HABs 2 - Arthur Zastepa, Environment Canada <i>Harmful algal bloom and cyanotoxin risk management in Hamilton Harbour and associated beaches</i>
9:50	HABs 3 - Ngan Diep, MOECC <i>Lake St. Clair – Thames River Water Quality and Harmful Algal Bloom (HABs) Assessment</i>
10:10	HABs 4 - Diane Orihel, Queen's University <i>Species-level responses of freshwater phytoplankton to experimental iron additions in a hypereutrophic lake</i>
10:30	Morning break
11:00	HABs 5 - Zofia Taranu, University of Ottawa <i>Spatio-temporal dynamics of microcystin congeners in response to environmental change: potential impact on the bioamplification of cyanotoxins</i>
11:20	HABs 6 - George Arhonditsis, University of Toronto <i>Harmful algal bloom modelling: Running before we can walk? A critical evaluation of the current state of knowledge</i>
11:40	HABs 7 - Patrick Cheung, MOECC <i>Cyanobacterial Toxins in Selected Drinking Water Systems and Water Sources in Ontario (2004-2016)</i>
12:00	Lunch
13:00	Keynote Regulatory 1 - Cammy Mack, MOECC <i>Working Together to Protect Ontario Drinking Water from Blue-Green Algae</i>
13:30	HABs 8 - Nathan Wilson, Lakehead University <i>Identifying Cyanobacteria in Northwestern Ontario: Stage One Cloud Lake Case Study</i>
13:50	HABs 9 - Claire Holeton, MOECC <i>Ontario's Algal Bloom Response Protocol</i>
14:10	HABs 10 - Kaoru Utsumi <i>Taxonomy and Images of Common Bloom Forming Cyanobacteria</i>
14:30	Afternoon break
14:50	Keynote Standards & Reference materials 1 - Daniel Beach, National Research Council of Canada <i>Advanced Mass Spectrometry Methods and Reference Materials for Improved Quantitation of β-methylaminoalanine (BMAA)</i>
15:20	Standards & Reference materials 2 - Michael Quilliam, National Research Council of Canada <i>Development of reference materials for cyanobacterial toxins</i>
15:40	Standards & Reference materials 3 - Wendy Strangman, Marbianoc <i>Microcystins and Beyond : Untargeted UPLC-ToF-MS metabolomics and ^{15}N labeling in cyanobacterial harmful algal bloom (cHAB) research</i>
16:00	Closing remarks
16:20	End day 2