CHABs 2017 Final Program

Wednesday April 26th

8:30	Registration and coffee
9:00	Opening remarks
9:10	**Keynote Cyanotoxins 1 - Tim Davis, National Oceanic and Atmospheric Administration** *Combining advanced molecular techniques and near real-time instrumentation to monitor cyanoHABs and microcystins in Lake Erie*
9:40	Cyanotoxins 2 - Dorothy Huang, Alberta Centre for Toxicology *Methodologies for the Alberta Cyanotoxin Monitoring*
10:00	Cyanotoxins 3 - Banu Ormeci, Carleton University *Monitoring and measurement of microalgae using first derivative of absorbance and comparison with chlorophyll extraction method*
10:20	Morning break
10:50	Cyanotoxins 4 - Stuart Oehrle, Northern Kentucky University/Waters *Analysis of Cyanobacterial Toxins in Recreational and Drinking Water using UPLC/MS/MS Detection*
11:10	Cyanotoxins 5 - Audrey Roy-Lachapelle, Université de Montréal *New strategies for the determination of cyanotoxins in lake water and fish using high resolution mass spectrometry*
11:30	Cyanotoxins 6 - Ralph Hindle, Vogon Labs *Non-targeted LC/QTOF Analysis of Microcystins Using the All-Ions Acquisition Technique*
11:50	Cyanotoxins 7 - David Kinniburgh, Alberta Centre for Toxicology *Alberta Cyanobacteria Beach Monitoring Program – Microcystins*
12:10	Lunch
13:00	**Keynote Cyanotoxins 8 - Chris Miles, National Research Council of Canada** *Microcystin conjugates of thiols: formation, stability, reactivity and implications for analysis and toxicology*
13:30	Cyanotoxins 9 - Herb Schellhorn, McMaster University *Use of DNA metagenomic sequencing and conserved signature sequences to characterize harmful algal blooms in Ontario Lakes*
13:50	Cyanotoxins 10 - Suresh Neethirajan, University of Guelph *Nano-biosensing Platform for Point-of-Care Detection of Cyanobacteria Toxin*
14:10	Cyanotoxins 11 - Ethan Paschos, McMaster University *Use of high-resolution DNA metagenomics to identify cyanobacteria in algal blooms occurring in the Ontario lakes*
14:30	Cyanotoxins 12 - Moustapha Oke, MOECC *Determination of Microcystins in Drinking Water by Enzyme-Linked Immuno Sorbent Assay (ELISA) – MOECC Interlaboratory studies from 2013-21016*
14:50	Afternoon break
15:10	**Keynote Toxicology 1 - Olga Pulido, University of Ottawa** *Phycotoxins by Harmful Algal Blooms (HABs): A Public Health Threat*
15:40	Toxicology 2 - Denis Gris, Université de Sherbrooke *Neuroinflammatory effects of Algal Toxins*
16:00	DW treatment 1 - Victoria Calling, Walkerton Clean Water Centre *Small drinking water systems and cyanobacteria toxins*
16:20	DW treatment 2 - Ron Hofmann, University of Toronto *Accumulation of cyanobacteria and cyanotoxins in low-risk water treatment plants*
16:40	End day 1

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Thursday April 27th

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