



# Canadian Trace Organic Workshop

Fantasyland Hotel, Edmonton, AB

## AGENDA

### Sunday May 12 2019

18:00 – 20:00	<b>Pre-registration and Mixer</b> Santa Maria, Deep Sea Adventure Lake, West Edmonton Mall 17700 87 Ave NW, Edmonton, AB	<i>Entrance 52 near Fantasyland Hotel Entrance 56 or 58 near Sunrise Records Entrance 2 near The Brick</i>
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### Monday May 13, 2019

8:00 – 8:55	<b>Registration</b>	<b>Fantasyland Hotel – Chianti Room</b>
8:00 – 8:55	<b>Continental Breakfast</b>	
8:55 – 9:00	<b>Opening Remarks and Welcome</b>	<b>Don Noot</b>
9:00	<b>Keynote Speaker</b> Chromatographic Characterization of Heavy Oil – An Analytical Conundrum.	<b>Dr. Nicole E. Heshka</b> Natural Resources Canada, CanmetENERGY Devon
10:00 – 10:30	<b>Coffee Break</b>	
10:30	Dioxin Analysis in Food with TSQ 9000 GC-MS/MS and Advanced Electron Ionization.	<b>Tim Anderson</b> Thermo-Fisher Scientific
11:00	Challenges of Residue Analysis in Unusual Crops.	<b>Heather Black</b> Agriculture & Agri-Food Canada
11:30	Mycotoxin analysis in grains and cereals by QSight220/LCMSMS.	<b>Jamie Foss</b> Perkin Elmer
12:00 – 13:00	<b>Lunch</b>	
<i>PM Chair</i>		<b>David Hope, Pacific Rim Labs</b>
13:00	A recipe for Success! Super Easy High Resolution Food Screening with the new Agilent 6546 QToF and Suspect Screener software.	<b>Marcus Kim</b> Agilent Technologies
13:30	Of Pesticides and Biobeds in Western Canada.	<b>Claudia Sheedy</b> Agriculture & Agri-Food Canada
14:00	Maximization of Analytical Cannabis Extractions and Sample Clean-up through the use of Single Process Combined Pressurized Fluid and Dispersive Solid Extraction (EDGE).	<b>Suzanne Lepore</b> SPEX
14:30-15:15	<b>Coffee Break, Poster and Networking</b>	

15:15	The use of the DEXTech Heat in the preparation of samples for dioxin analysis.	<b>Angelika Koepf</b> LCTech GmbH
15:45	Show me the Money!	<b>Kathy Hunt, Ralph Hindle</b> Vogon Laboratory Services Ltd
17:15 18:00	bus leaves from Entrance 50 <b>Social Event &amp; Dinner</b> Telus World of Science 11211 142 St NW, Edmonton, AB	
	<b>Award Presentations:</b> Caledon Award Vogon Student Travel Award	

**Tuesday May 14, 2019**

8:00 – 9:00	<b>Full Breakfast</b>	
<i>AM Chair</i> 9:00	<b>Keynote Speaker</b> Environmental Applications of a Multi-Tracer Toolkit: Emerging Techniques to Identify Sources of Solutes in Receiving Environments.	<b>Ralph Hindle, Vogon Labs</b> <b>Dr. Jean Birks</b> Water Management, InnoTech Alberta
10:00 – 10:30	<b>Coffee Break</b>	
10:30	Modern Sample Preparation Approach for the Analytical Determination of PFAS in Water.	<b>Angelika Koepf</b> LCTech GmbH
11:00	The Impact of Ultra-High Resolution Mass Spectrometry on Environmental Chemistry.	<b>Paul Jones</b> University of Saskatchewan
11:30	New Biochip Array Technology applications for the Detection of Pesticides, Veterinary Drugs and Mycotoxins in Various Matrices.	<b>Liberty Sibanda</b> Radox Food Diagnostics
12:00 – 13:00	<b>Lunch</b>	
<i>PM Chair</i> 13:00	Challenges in the Pursuit of the "True Value": A Guide to Improving Laboratory Accuracy through Error and Contamination Reduction in the Analytical Laboratory.	<b>Kerry Peru, E&amp;CC Canada</b> <b>Suzanne Lepore</b> SPEX
13:30	Measurement of Underivatized Glyphosate and Other Polar Pesticides in Surface Water using LC/MS/MS.	<b>Jean-Francois Roy</b> Agilent Technologies
14:00-14:30	<b>Coffee Break, Poster and Networking</b>	
14:30	Shimadzu Scientific Solution to PFAS Testing.	<b>Mike McDonell</b> Mandel Scientific
15:00	Electrospray Ionization and the Importance of High Purity Solvents. LC-MS grade Methanol Production.	<b>Don Noot</b> Noot Analytical Consulting Ltd. <b>Brian Finniss</b> Caledon Laboratories Ltd.
15:30	Wrap Up and Business Meeting	

## Poster Session

Development of a 345 MR QuEChERS Method for National Pesticide Compliance and Enforcement.

**Tyler McRitchie**, Health Canada, PMRA

LC-MS Identification and Quantification of Halogenated Tyrosine in Saliva.

**Nicholas Wawryk**, University of Alberta

## Keynote Presentation – Dr. Nicole E. Heshka

Nicole received her Ph.D. in analytical chemistry from the University of Alberta in 2012, following completion of an honors bachelor degree in chemistry, also from the University of Alberta. After graduating, Nicole joined CanmetENERGY Devon (part of Natural Resources Canada) as a visiting fellow, where she is now a research scientist. Nicole's areas of specialty are chromatography and hydrocarbon chemistry, and recent projects include the measurement of light sulfur species and H<sub>2</sub>S in heavy oil, and the quantification of alkene species in upgraded oil. She is currently working on the oil spill team, developing methods to characterize the effects of oil spills on different water bodies. Nicole is also passionate about supporting women in STEM fields, and is leading a summer mentorship program for undergraduate women to complete research projects related to Indigenous interests and the natural sciences.

## Keynote Presentation – Dr. Jean Birks

Dr. Jean Birks is a Principal Researcher at InnoTech Alberta where she specialized in the development and application of isotope tracer techniques to better understand the hydrological cycle. Recent research has included using geochemical and isotopic tracers to investigate the impacts of oil and gas activities on shallow aquifers, evaluating fingerprinting techniques for natural organic compounds, characterizing the transport of process-affected water in low permeability deposits, and using age dating, geochemical and isotopic techniques to evaluate groundwater and surface water connectivity and cross-formation mixing in the Athabasca oil sands region. Jean has adjunct positions at the University of Waterloo and the University of Victoria, and is the former chair of the CGU Committee on Isotope Tracers.

## CTOW 2019 Organizing Committee

**Diana Chau** - Environment and Climate Change Canada

**Don Noot** - Noot Analytical Consulting Ltd.

**Nicole Heshka** - Natural Resources Canada

**Alberto Pereira** - InnoTech Alberta

**Kristina Stefanizyn** - InnoTech Alberta

**Jean Birks** - InnoTech Alberta

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