



# Western Canada Trace Organic Workshop

Canada Olympic Park, Calgary AB

## AGENDA

Monday April 27, 2015

19:00 **Pre-registration and Mixer**  
Four Points by Sheraton Calgary West  
8220 Bowridge Crescent NW

Tuesday April 28, 2015

8:00 – 8:55	<b>Registration</b>	Winsport – Canada Olympic Park Markin MacPhail Centre, 2 <sup>nd</sup> Level Multipurpose B & C
8:00 – 8:55	<b>Continental Breakfast</b>	
8:55 – 9:00	<b>Opening Remarks and Welcome</b>	
9:00	<b>Keynote Address</b> <a href="#">Trace organic analyses, ACWA and opportunities for local solutions with global applications</a>	<b>Dr. Leland Jackson</b> ACWA – University of Calgary
9:55	<b>Award Presentation: Caledon Award</b>	
10:00 – 10:30	<b>Coffee Break</b>	
10:30	<a href="#">Trace Analysis of Pesticides in Food on Modern Triple Quad GC-MS/MS Instrumentation</a>	<b>Alexander Semyonov</b> ThermoFisher Scientific
11:00	<a href="#">Analysis of Microcystin-LR in San Francisco Delta Algae</a>	<b>Max Mizel</b> UC Davis
11:25	<b>Award Presentation: Vogon Student Travel Award</b>	<b>Ralph Hindle</b>
11:30	<a href="#">LC/QTOF Database Searching for Microcystin Variants in Cell-Bound Algae from the San Francisco Estuary</a>	<b>Ralph Hindle</b> Vogon Laboratory Services
12:00 – 13:00	<b>Lunch</b>	
13:00	<a href="#">Developing trends in Environmental Water Monitoring related to River Basin and Aquifer Management</a>	<b>Paul Stephens</b> Agilent Technologies
13:30	<a href="#">Measurements of PANs by GC-ECD and of Medium Volatility Biogenic and Anthropogenic VOCs by GC Ion Trap Mass Spectrometry at a ground site near Ft. McKay, AB</a>	<b>Dr. Hans Osthoff</b> University of Calgary Department of Chemistry

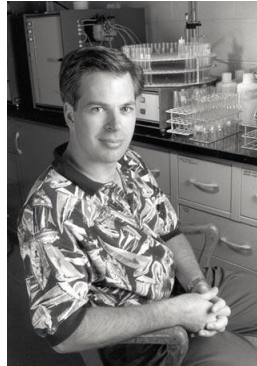
14:00	The DFS POPs High Resolution Mass Spectrometer	<b>Peter Stow</b> Isomass Scientific
14:30-15:00	<b>Coffee Break</b>	
15:00	Poster Session	
15:30	<a href="#">Occurrence of Pesticides in Alberta's Waters</a>	<b>Claudia Sheedy</b> Agriculture and Agri-food Canada
16:00	<a href="#">Mepiquat in Malted Barley and Beer</a>	<b>Matthew Noestheden</b> SCIEX
18:00	<b>Social Event &amp; Dinner</b> Canada Sports Hall of Fame Located across from the Markin MacPhail Centre	

### Wednesday April 29, 2015

8:00 – 9:00	<b>Continental Breakfast</b>	
9:00	<a href="#">On-site Micro GC Evaluation of Trace Sulfur Species Leading to Optimized Operations - and Clean Emissions - at Gas Plants and Oil Refineries Worldwide</a>	<b>Ryan McLennan</b> Sulfur Recovery Engineering
9:30	<a href="#">Analysis of pesticides and contaminants using SPME-GC/MS with DRS identification</a>	<b>Blair Surridge</b> Camosun College
10:00 – 10:30	<b>Coffee Break</b>	
10:30	<a href="#">Advances in High Resolution Mass Spectrometry Analyses of Naphthenic Acids</a>	<b>John Headley</b>
11:00	<a href="#">Second Laboratory Demonstration of US EPA LC-MS/MS Methods</a>	<b>Don Noot</b> Noot Analytical Consulting
11:30	<b>WCTOW Discussion Forum</b>	<b>WCTOW Committee</b>
12:00 – 13:00	<b>Lunch</b>	
13:00	<a href="#">Two Modes are Better than One: Extraction of Acidic and Neutral Pharmaceuticals and Endocrine Disruptors Using Mixed Mode SPE</a>	<b>Victoria Cooper</b> City of Calgary
13:30	<a href="#">Enhanced Molecular Ion in GC/MS by Cold EI</a>	<b>Dr. Charlie Schmidt</b> PerkinElmer
14:00-14:30	<b>Coffee Break</b>	
14:30	<a href="#">Analysis of alkyl nitrates at ambient concentration levels by gas chromatography and thermal dissociation cavity ring-down spectroscopy with preconcentration</a>	<b>Connie Ye</b> University of Calgary Department of Chemistry
15:00	<a href="#">A Novel Micro Pressurized Liquid Extraction Method for Very Rapid Solid Sample Preparation</a>	<b>Fadi Alkhateeb</b> University of Calgary
15:30	E-coli: The Good, the Bad and the Lethal	<b>Dr. Greg Appleyard</b> Canadian Food Inspection Agency

### Poster Session

Mercury and Arsenic Speciation analysis by IC-ICP/MS	<b>Sean Bryan, Bach Duong</b> Metrohm Canada
Determinative and Confirmatory CFIA LC-MS/MS Methodologies For Total Flonfenicol and Tulathromycin Residues in Bovine, Equine, and Porcine Kidney, Liver and Muscle Tissues	<b>Rick Fedeniuk</b> Canadian Food Inspection Agency
Optimization of Analytical Methods for the Assessment of the Fate of Alkylamine Ethoxylates in Aquatic Systems	<b>Jose Rodriguez-Gil</b> University of Guelph Department of Toxicology
Screening and Identification of Unexpected Environmental Pollutants in Water Samples	<b>Matthew Noestheden</b> SCIEX
Polybrominated diphenyl ether (PBDE) Concentrations in Canadian Mothers' Milk	<b>Amy Sadler</b> Health Canada
Occurrence of agricultural pesticides in groundwaters of Southern and Central Alberta	<b>Kamala Sapkota</b> Agriculture and Agri-food Canada
Advancing Canadian Wastewater Assets (ACWA): Unique Solutions for Research in Wastewater Treatment Technology, Aquatic Ecosystems & Human Health	<b>Dr. Andrew Stopford</b> ACWA – University of Calgary
Introducing the World Class ACWA Analytical Facility.	<b>Dr. Andrew Stopford</b> ACWA – University of Calgary
Analysis of beer with the SIS purge and trap thermal desorption GC/MS	<b>Peter Stow</b> Isomass Scientific
Analysis of pesticides and contaminants using SPME-GC/MS with DRS identification	<b>Blair Surridge</b> Camosun College



Lee Jackson is an aquatic ecologist who's research seeks to understand how the structure of communities and ecosystems affects their function, how land use determines the delivery of materials (nutrients, contaminants) to rivers, and relationships between local economies and ecological decision making. Following his PhD at McGill University where he studied the role of aquatic macrophytes on trace metal cycling in lakes, he held an NSERC postdoctoral fellowship at the University of Wisconsin-Madison where his research centered on organochlorine contaminant fluxes and fisheries management, and has been used to guide policy development by the International Joint Commission for the Great Lakes. After leaving Madison, Dr. Jackson held a faculty position at the University of Illinois at Urbana-Champaign. In 1997 he moved to the University of Calgary - he is a Professor in the Department of Biological Sciences and his NSERC Discovery Grant research examines the structuring role of rooted aquatic plants in shallow prairie lakes, and blends empirical studies with field experiments to test and develop theory. Since 2009 he has been the Scientific Director of "Advancing Canadian Wastewater Assets" (ACWA), a \$38.6 Million partnership between the University of Calgary and The City of Calgary. Dr. Jackson's service has been in a variety of roles, including Associate Department Head (Graduate Program) and as a team leader for the Aquatic Ecology section of Alberta's "Water for Life" strategy workshops and on the implementation committee. Dr. Jackson also served on the Canadian Water Network and Alberta Lake Management Society Boards of Directors and he regularly serves on NSF and US-EPA peer review panels, reviews proposals submitted to NSERC Discovery, Strategic Project and Canada Research Chair programs plus the Alberta Conservation Association Challenge Grants in Biodiversity. He has published widely in environmental science and ecology journals and has supervised approximately 50 undergraduate and graduate students in research projects.

Dr. Jackson's personal interests include photography, fly tying and fly fishing, woodworking and he is an avid homebrewer. He plays squash and enjoys mountain biking in Kananaskis Country.

More information, including a selection of photographs primarily of Alberta's rivers and lakes, is available at: <http://people.ucalgary.ca/~ljackson/>

More information regarding ACWA is available at: <http://www.ucalgary.ca/acwa/>

Ryan McLennan is a Lead Process Engineer and Partner at Sulfur Recovery Engineering. He is a Professional Engineer with The Association of Professional Engineers and Geoscientists of Alberta (APEGA) and also holds a Bachelor's Degree in Chemistry and Biochemistry.

Ryan leads technical teams that provide on-site Sulfur Recovery Unit (SRU) analyses, troubleshooting, and optimization services for clients at gas processing facilities and oil refineries worldwide. In addition, he regularly conducts tailored, on-site training for facility operators, engineers, and site management groups.

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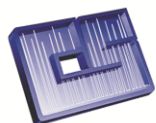
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## WCTOW 2015 Organizing Committee

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