



CLRA | ACRSD

**TO ALL OUR SPONSORS, DELEGATES AND
SPEAKERS,**

THANK YOU!

**YOUR CONTINUED SUPPORT IS
GREATLY APPRECIATED AND IS KEY IN
MAKING THIS CONFERENCE
A CONTINUED SUCCESS**



**2019 CONFERENCE
AGENDA**

Monday February 11

9:00- PRE-CONFERENCE WORKSHOP 1

12:00 (Separate Registration Required)

One Stop & MapViewer Training
Heather Seibel, Alberta Energy Regulator

13:00- PRE-CONFERENCE WORKSHOP 2

16:00 (Separate Registration Required)

One Stop & MapViewer Training
Heather Seibel, Alberta Energy Regulator

16:00 END OF WORKSHOP

18:00 CONFERENCE & AGM REGISTRATION OPEN

WELCOME RECEPTION (Monaco/Santano Rooms)

Student & Mentor Meet up
Award Winner & Sponsor Meet up

22:00 END OF DAY

2019 BOARD OF DIRECTORS

Executive

Marissa Reckmann, President

President & CEO, AGAT Laboratories

Christine Johnson, Vice President

Business Development Coordinator, Trace Associates

Maria Kudienko, Secretary (Outgoing)

Environmental Scientist, Matrix Solutions Inc.

Elise Faryna, Treasurer (Outgoing)

Senior Environmental Coordinator, AlphaBow Energy Ltd.

Directors

Ashley Easton

Reclamation Specialist, Tannas Conservation Services Ltd.

Betsy Chai

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Cheryl Hendrickson

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Darren Heck

Project Manager, Stantec Consulting Ltd.

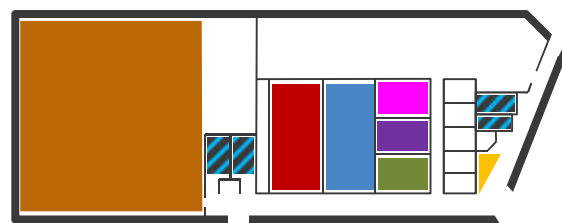
Kelly Zadko

Vice President – Business Development, North Shore Environmental Consultants

Past President

Fannie DesRosiers, Vice President CLRA National, Team Lead, WSP Canada

VENUE MAP



Tuesday February 12

REGISTRATION OPEN

7:00

BREAKFAST (Exhibition Hall)

8:00

Welcome and Opening Remarks

Marissa Reckmann, President, CLRA Alberta Chapter / CEO, AGAT Laboratories

8:15

Area-Based Closure - Learnings from an Early Adopter

James Agate, Manager, Reclamation, Canadian Natural Resources Limited & Chris MacKay, Reclamation Specialist, Hemisphere Land & Resource Consulting Ltd.

8:45

Weed Control in the Green Area: Using Empirical Evidence to Question Current Practices

Amanda Schoonmaker, Research Chair, NAIT

9:15

PAH Urban Background Values and Soil Re-Use on a Municipal Capital Project

Paul Leong, Senior Technical Advisor, The City of Calgary

9:45

NETWORKING BREAK

Reclamation	Liability & Closure	Remediation	Green Zone / Wildlife	Reclamation Tool Kit
10:30 Reclamation of a Former Oil and Gas Refinery Applying Non-Traditional Methods Kalina Noel, Senior Ecologist, SLR Consulting (Canada) Ltd.	Innovating Our Way to Closure: Technology-Based Solutions Simone Levy, Researcher, InnoTech Alberta	Road Salt Forensics: Using Cl-/Br- Ratios and Other Indicators to Assess and Differentiate Road Salt and Other Impacts in Groundwater Terry Obal, Chief Science Advisor, Maxxam Analytics	Initial Spill Response: A Biologist's Perspective Sandra Babiuk, Terrestrial Ecologist & Lynette Allemand, Ecologist, RC BioSolutions Ltd.	Is the Native Plants Story "Fake News"? Lessons Learned Compiling the Inventory of Native Species Seed Mixes in Alberta Chris Powter, Owner, Enviro Q&A Services
11:00 Reclamation with Rare Plants: It's Possible and Happening Darin Sherritt, Intermediate Ecologist, Tannas Conservation Services	Site-Specific liability for Complex Upstream Oil and Gas Contaminated Facilities in Saskatchewan Todd Han, Senior Biologist, Matrix Solutions Inc.	Two-Step Reclamation of a Polluted Site with Surfactant and ISCO Treatment: Field Case Study North-West Italy George Ivey, President & Senior Remediation Specialist, Ivey International	Watercourse Crossing Restoration Prioritization at the Landscape Level Scott Wilson, Ecologist, Woodlands North	Quantifying Natural Recovery in Forested Areas: Reclamation Mitigation Success on Pipelines Wade Pruett, Senior Environmental Advisor, TransCanada Pipelines & Brittany Flemming, Director of Research, Paragon Soil & Environmental Consulting Inc.
11:30 Reclamation and Beneficial Use of Phosphogypsum Stacks in Alberta Connie Nichol, Environmental Scientist, Nutrien (former Agrium)	Optimized Approach for Minimizing Oil and Gas Asset and Remediation and Reclamation Liability Cost Junye Wang, Professor, Athabasca University	Myth: You Can't Get Closure Using Site-Specific Risk Assessment Trevor Burgers, Senior Environmental Scientist & Lindsey Mooney, Risk Assessment Specialist, Millennium EMS Solutions	Wildlife Usage Indicates a Trend Towards Increased Similarity between Reclaimed Upland Habitat and Mature Boreal Forest in the Athabasca Oil Sands Region of Alberta Virgil Hawkes, Vice-President & Senior Wildlife Biologist, LGL Ltd.	A Sceptics Guide to Sorting Through Erosion Control Specifications Trevor Kloock, Business Development Manager, Synemulch

12:00

LUNCH (Exhibition Hall)

13:00

Lyme Disease: The Myths and Facts: A Personal Journey

Jamie Cobler, Project Manager, Deeproots Environmental Ltd.

13:20

Effects of Atmospheric Sulfur and Nitrogen Deposition on Soil Properties and Foliar Nutrient Concentration in the Athabasca Oil Sands Region

Sebastian Dietrich, Research Fellow, University of Alberta

13:50

Evaluation of Upland Forest Vegetation Growth Performance of Land Reclamation at Syncrude Canada Ltd. Oil Sands Mine Operations

Marty Yarmuch, Soil Scientist, Syncrude Canada Ltd.

14:20

Pilot Mentorship Program – ECO Canada

Lynette Esak, Volunteer Program Lead, Esak Consulting Ltd.

14:30

NETWORKING BREAK

Reclamation	Remediation	Dealing with Salts	Data Analysis	Technology & Education
15:00 Combined Effects of Climate Change and Reclamation on Future Forest Vegetation in the Mineable Alberta Oil Sands Hedvig Nenzen, Landscape Reclamation Modeler, Canadian Forest Service, Natural Resource Canada.	Floating Island Selenium Bioremediation of Mining Waste: Bench and Field Trials Steven Tannas, Senior Vegetation Ecologist & Ashley Easton, Reclamation Specialist, Tannas Conservation Services	Alternative Salinity Evaluation; Description and Benefits of an Additional Line of Evidence Accepted by the BC Oil and Gas Commission Daniel Gorsic, CEO, SynergyAspen Environmental	Analytical Chemistry in the Commercial Laboratory – Keeping Up Chris Swyngedouw, Technical Specialist, Exova Group Limited	So You Want To Be An Environmental Scientist? No Fake News Here – Connecting Your Classroom Studies to The Oil and Gas Industry Kirk Elliott & Megan Rennie, Environmental Scientists, Trace Associates Inc.
15:30 Evaluating Innovative Techniques and Products to Enhance Reclamation Success Sarah Thacker, Researcher, & Bonnie Drozdowski, Team Lead/Researcher, InnoTech, Alberta	Critical Evaluation of Drilling Waste Compliance Option Triggers: How Do They Correlate to Phase 2 ESA Results? Jim Purves, Technical Advisor, North Shore Environmental Consultants	EM31 and OhmMapper Surveys, Calibrated with Physical Analytical Soil Data, to Create Impacted Soil Volume Estimates Before Remediation- A Case Study in Achieving Site Closure David Barcham, Project Manager, Pinchin Ltd. & Adam Peake, Geophysicist, DMT Geosciences	Soil Contamination Sampling Intensity: Determining Accuracy and Confidence using a Monte Carlo Simulation Preston Sorenson, Chief Science Officer, Maapera Analytics Inc.	Can Small Sensors and Citizen Science Be Trusted as Real Science? Kevin McCullum, Senior Engineer, Matrix Solutions Inc.
16:00 Reclaiming a Former Airstrip to Wetland Status: A Case Study Melanie Bird, NAIT Boreal Research Institute	Biosparge Pilot System for Aerobic Degradation of Sulfolane Jennifer Harder, Project Manager, Golder Associates & Didier Jouen, Imperial Oil Limited.	The Good, the Bad, and the Salty: A Collaboration of Technologies for Site Remediation in Naturally Occurring Saline Areas Ken Grykullak, Senior Project Manager & Cathy Kingdon, Environmental Engineer, Stantec Consulting, & Patrick Mah, Geophysicist, DMT Geoscience	Accessible management and analysis of problematic data in R: it's easier than you think Stefan Schreiber, Director, EnviroStats Solutions	All Sites with High Hydrocarbon Levels are Contaminated. Myth or Fake News? Lisa Neville, Director, Technical Science, AGAT Labs

16:30

BREAK

17:00

CLRA SOCIAL (Exhibition Hall)

18:30

INDUSTRY BANQUET & AWARDS

Western Sky Video & Award Presentations

22:30

END OF DAY

Wednesday February 13

REGISTRATION OPEN

7:00

BREAKFAST (Exhibition Hall)

8:30

CLRA National Updates

Andrea McEachern, President, CLRA National / Vice President & Co-Founder PurLucid Treatment Solutions

9:00

Overview of the Conservation and Reclamation Directive for Renewable Energy Operations

Shane Patterson, Science and Technology Specialist, Alberta Environment and Parks

9:30

BC OGC Regulatory Update

Devin Scheck, Supervisor, Environmental Stewardship, BC Oil and Gas Commission

10:00

NETWORKING BREAK

10:30

Stop the Spread: Alberta's Decontamination Protocol for the Containment of Whirling Disease and Aquatic Species

Kelly Skaug, Decontamination Technician, Alberta Environment and Parks

11:00

Update from the Orphan Well Association

Lars DePauw, Executive Director, Orphan Well Association

11:30

Alberta's Revised Remediation Regulation

Lisa Fairweather & Norman Sawatsky, Alberta Environment and Parks

12:00

Partial Reclamation Certificates and Site Reductions

Douglas Dafoe, President and Chief Executive Officer, Ember Resources Inc.

12:30

LUNCH (Exhibition Hall)

Alberta Chapter AGM

Alberta Chapter Board of Directors
Outgoing and Incoming Director Announcements

13:20

Defining and Quantifying the Ecological Restoration Economy

Nicolas Mansuy, Research Scientist, Northern Forestry Centre, Canadian Forest Service

13:30

Liability Management: Challenges and a Path Forward

Robert Wadsworth, Vice President, Closure and Liability Management, Alberta Energy Regulator

14:00

Area-Based Closure

Dustin Shauer, Senior Specialist, Alberta Energy Regulator

14:30

AER Record of Site Condition

Daniel Pollard & Sara Blacklaws, Remediation and Contamination Management Specialists, Alberta Energy Regulator

15:00

Closing Remarks and Door Prizes

Must be present to Win

15:30

END OF CONFERENCE

Sponsor Display Take Down

Thank you to all our Sponsors and Attendees!

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