

## 2020 BOARD OF DIRECTORS

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### VISION

"Recognized world leaders in ecological restoration  
for future generations"

### MISSION

"Advancing, promoting, and celebrating the  
profession of reclamation through collaboration,  
education and engagement with our members and  
the public"

### VALUES

Connection | Responsibility | Integrity  
Excellence | Recognition

## THANK YOU!

Thank you to all our Sponsors, Delegates, and  
Speakers. Your support is greatly appreciated and is  
key in making this conference a continued success.

PROGRAM PROUDLY SPONSORED BY



Canadian Land Reclamation Association  
Association canadienne de  
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2020 AGM &  
CONFERENCE  
#LOVEABENERGY

CAMBRIDGE RED DEER HOTEL &  
CONFERENCE CENTRE  
RED DEER, AB | FEBRUARY 26 – 28

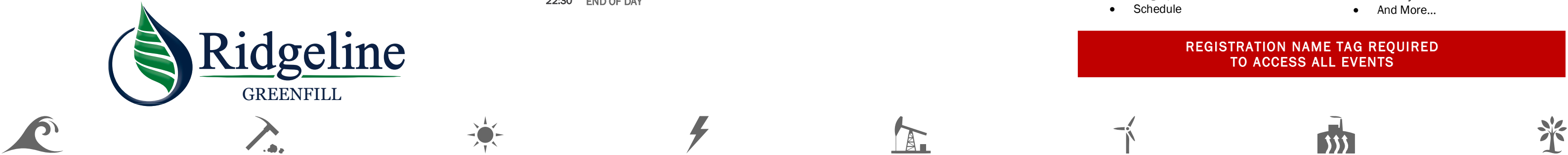
WEDNESDAY, FEBRUARY 26

|       |   |
|-------|---|
| 18:00 | CONFERENCE & AGM REGISTRATION OPEN  |
|       | <div>WELCOME RECEPTION (MONACO/SANTANO ROOMS)<br/>Networking Opportunity<br/>Student &amp; Mentor Meet Up</div> |
| 22:00 | END OF DAY  |

THURSDAY, FEBRUARY 27

|       |  |   |  |  |
|-------|--|---|--|--|
| 7:00  | REGISTRATION OPEN  |   |  |  |
|       | BREAKFAST (EXHIBITION HALL)  |   |  |  |
| 8:00  | Welcome and Opening Remarks  |   | Kelly Zadko, President, CLRA Alberta Chapter / North Shore Environmental Consultants & John Sinclair, Red Deer Native Friendship Society                                   |  |
| 8:30  | The Future of the Oil and Gas Industry in a Carbon Constrained World   |   | Scott McNally, Green Energy Advisor, Crescent Point Energy   |  |
| 9:00  | Alberta Energy: Spreading the Good News  |   | Carlene Meeks, Director of Quality, Trace Associates Inc. & Chris Powter, Owner, Enviro Q&A Services   |  |
| 9:30  | Evolution of the Orphan Well Association   |   | Lars DePauw, Executive Director, Orphan Well Association   |  |
| 10:00 | NETWORKING BREAK   |   |  |  |
| 10:30 | EXHIBITION HALL - CONCURRENT SESSION (10:30-11:00)<br>Navigating CLRA: "Coles Notes" and Cheat Codes for Students<br>Todd Martin, Director, CLRA AB Chapter / Senior Environmental Specialist, Ovintiv Services                |   |  |  |
|       | RECLAMATION  | REMEDATION  | WETLANDS & WATERCOURSES  | INVASIVE SPECIES MANAGEMENT  |
| 10:30 | Solar Pump - The Future of Irrigation for Ecological Restoration<br>James Proudfoot, Co-Founding Director, Leaf Ninjas Inc.  | Regulator Variance Requests: A Tool for Site Closure<br>Jason Hampson, Principal Scientist, Trace Associates Inc.   | Watercourse Crossings, A Collaborative Approach Before it is Too Late<br>Iain Sharp, Restoration Ecologist, Woodlands North Inc.   | A Tool for Managing Invasive Species for Success<br>Megan Evans, Executive Director, Alberta Invasive Species Council  |
| 11:00 | Biophysical Impacts and Reclamation Consideration for Solar, Wind and Geothermal Energy Systems<br>Amalesh Dhar, Research Associate, University of Alberta   | Novel Methods of Trace Metals Sampling in Water: Applications and Challenges<br>Aaron Zwiebel, University of Northern British Columbia  | Borrow Pit Reclamation: Establishment, Survival, and Growth of Vegetation within Two Topsoil Depths in Northeastern Alberta<br>Ira Sherr, Researcher, InnoTech Alberta     | Using Autonomous Technology to Improve Worker and Environmental Safety in the Reclamation Industry<br>Wade McLean, Chief Executive Officer & Cory Southham, Operations Manager, Strongfield Environmental Solutions  |
| 11:30 | Using the Revised Universal Soil Loss Equation (RUSLE) for Predicting and Protecting Against Soil Loss from Energy Sites<br>Brian Free, Market Development Manager & Damon Sump, Regional Sales Manager, Profile Products LLC. | Approaching Assessment and Remediation with an Understanding of Screening Guideline Derivation<br>Cory Kartz, Environmental Scientist & Lindsey Mooney, Risk Assessment Specialist, Millennium EMS Solutions Ltd. | Underutilized Open Bottom Culvert System for a Fish Friendly Watercourse<br>Ben Poltorak, Project Manager – Northern Operations, Earthmaster Environmental Strategies Inc. | Integrated Weed Management: Overcoming Challenges in Forested and Grazing Systems Using a Holistic Approach<br>Shellie English, Senior Technical Advisor, Matrix Environmental Solutions / LRM Instructor, Northern Lights College & Sandra Burton, Independent Consultant |
| 12:00 | LUNCH & LINGER (EXHIBITION HALL)   |   |  |  |
| 13:00 | Linger Amongst Booths & Enjoy Desserts Throughout Exhibition Hall  |   |  |  |

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THURSDAY, FEBRUARY 27 (CONT'D)

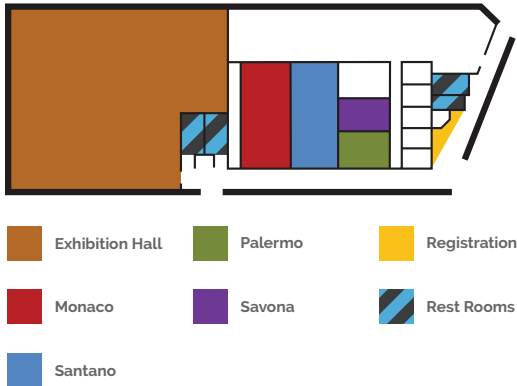
|       |  |  |  |   |
|-------|--|--|--|---|
|       | RECLAMATION  | REMEDATION   | ALTERNATIVE APPROACH   | BUILDING EFFICIENCY   |
| 13:30 | Energy Production & Environmental Protection - Finding a Balance<br>Paul Leveille & Janeen Ogloza, TerraShift Engineering Ltd.   | Impacted Soil as a Resource - A Different Way of Thinking<br>Ian Mitchell, Vice President - Client and Business Services & Tony Ciarla, Executive Vice President, Millennium EMS Solutions Ltd.                                  | Rethinking the RFP Process & KT Analysis - Beyond the Environmental Services Rate Sheet<br>Todd Martin, Senior Environmental Specialist, Ovintiv   | TMI: Too Much Information<br>Vincent Lam, Founder and CEO, Matidor Technologies & Liesl Hanlan, Founder and President, THINK Envirotechnical Services   |
| 14:00 | Research Collaboration Advances Best Practice and Ecological Outcomes for In Situ Oil Sands<br>Terry Osko, Principal, Circle T Consulting Inc.   | An Integration of Science and Indigenous Knowledge to Reconstruct Natural Environmental Background<br>Lisa Neville, Director of Science, AGAT Laboratories & Michelle Cotton, President, Solstice Canada                         | Pilot Turnkey – Lump Sum Asset Closure Project<br>Brandon Spiller, General Manager – Environment, Vertex Professional Services & Dave Marks, Manager – Projects, Orphan Well Association | Utilizing Remote Sensing and Statistical Analysis for Efficient and Transparent Reclamation Monitoring<br>Ryan Tulloch, President, ProDelta Projects Inc.   |
| 14:30 | NETWORKING BREAK   |  |  |   |
|       | GREEN ZONE   | REMEDATION   | NATIVE GRASSLANDS  | INNOVATION  |
| 15:00 | Recovery Evaluation of Harvested Donor Moss Sites for In-Situ Peatland Restoration: Ecological & Provincial Criteria Perspectives<br>Melanie Bird, Research Technician – Peatland Restoration, NAIT Centre for Boreal Research | Remediation of Chloroform by Chemical Reduction Using Zero Valent Iron In Anaerobic Bottles<br>Alison Murata, Research Assistant, University of Alberta  | Native Seed Quality and Supply within Canada's Supply System<br>Steven Tannas, President and Senior Vegetation Ecologist, Tannas Conservation Services Ltd.                              | X-Ray Vision: Novel Use of CT Scanner to View in Situ Saline Response in Plant Roots<br>Sara Venskaitis, Research Intern, InnoTech Alberta  |
| 15:30 | Reforestation in a Stressful and Uncertain Climate<br>Jeff Renton, Reclamation Coordinator, Tree Time Services Inc.  | Evaluating Phase 1 ESA Production Triggers and Update to PTAC Drilling Waste Compliance Option Project: Adapting and Collaborating When Determining Risk<br>Jim Purves, Technical Advisor, North Shore Environmental Consultants | Doing it Right: Using Ecological Principles to Select Appropriate Techniques and Equipment for Grassland Reclamation<br>John Morgan, President, Prairie Habitats Inc.                    | Adopting New Field Screening Methods to Reduce Costs – A Set of Case Studies for the Application of SWIR Sensing with Machine Learning for PHC and Salinity Impacts<br>Graham Kawaulka, President, Maapera Analytics Inc. |
| 16:00 | Initiation of Fen Communities on Remnant Mineral Substrate of In-Situ Oil and Gas Features: A Meta-Analysis of Field Trials<br>Rebekah Ingram, Research Associate – Peatland Restoration, NAIT Centre for Boreal Research      | North Saskatchewan River Clean Up and Assessment<br>Gordon Wichert, Technical Director – Ecology, SLR Consulting   | Innovative Reclamation for Energy Projects: Harnessing the Power of Native Species on Salt-Impacted Sites<br>Sarah Thacker, Reclamation Researcher, InnoTech Alberta                     | Bringing the Forest to the Office – How Virtual Reality Can Be Used in Training and Decision Making About Restoration<br>Matthew Pyper, Principal, Fuse Consulting Ltd.   |
| 16:30 | BREAK  |  |  |   |
| 17:00 | CLRA SOCIAL (EXHIBITION HALL)  |  |  |   |
| 18:00 | INDUSTRY BANQUET & AWARDS<br>Western Sky Video & Award Presentations   |  |  |   |
| 22:30 | END OF DAY   |  |  |   |

FRIDAY, FEBRUARY 28

|       |   |
|-------|---|
| 7:30  | REGISTRATION OPEN   |
|       | BREAKFAST (EXHIBITION HALL)   |
| 8:30  | CLRA National Updates<br>Andrea McEachern, President, CLRA National / Vice President & Co-Founder PurLucid Treatment Solutions  |
| 9:00  | The Canadian Conservation and Land Management Knowledge Network: Connecting and Supporting Communities of Practice<br>Bonnie Drozdowski, Team Lead – Reclamation, InnoTech Alberta  |
| 9:30  | BC Regulatory Update – Dormant Site Assessment, Remediation and Reclamation<br>Devin Scheck, Supervisor - Environmental Stewardship, BC Oil and Gas Commission  |
| 10:00 | NETWORKING BREAK  |
| 10:30 | Native Prairie Protocol<br>Gordon Dinwoodie, Reclamation Policy Specialist, Alberta Environment and Parks   |
| 11:00 | The New Remediation Regulation: Contaminated Sites Management in the Statutory Context of Environmental Protection<br>Jason Unger, Executive Director, Environmental Law Center   |
| 11:30 | Reclamation and Remediation Issues before the Environmental Appeals Board and Public Lands Appeals Board<br>Chris Powter, Owner, Enviro Q&A Services  |
| 12:00 | LUNCH (EXHIBITION HALL)   |
| 13:00 | Alberta Chapter AGM<br>Alberta Chapter Board of Directors   |
| 13:30 | Canada's Oil Sands Innovation Alliance: Driving Innovation in Environmental Science and Technology through Collaboration<br>Natalie Shelby-James, Senior Technical Advisor Land Environmental Priority Area, Canada's Oil Sands Innovation Alliance |
| 14:00 | Don't Get Bugged Down by Tier 2 Wetland Contamination Assessments - Solutions and Options for Common Problems<br>Catherine Evans, Risk Assessment Specialist - Technical Science & External Innovation, Alberta Energy Regulator                    |
| 14:30 | Closing Remarks and Door Prizes<br>**Must be present to Win**   |
| 15:00 | END OF CONFERENCE<br>Sponsor Display Take Down  |

THANK YOU TO ALL OUR SPONSORS AND ATTENDEES!

VENUE MAP



DOWNLOAD THE 2020 APP

- Presentation Abstracts
  - Presenter/Co-Presenter Biographies
  - Schedule
- Sponsors
  - Exhibitor Maps
  - Activity Stream
  - And More...

REGISTRATION NAME TAG REQUIRED TO ACCESS ALL EVENTS