



2018 National Canadian Land Reclamation Association Conference and AGM

2018 Atlantic Reclamation Conference ARC 2018

Planning for the Annual 100 Year Event

Conference Program Overview

Technical Program at- a- Glance

Monday October 15, 2018

Time	Activity	Location	Details
10:30 and 10:45 to arrange car pools. 11:00 am sharp- Leave for tour. 11 am-4pm Mine Tour	Brunswick Mine Tour	Meet at NBCC Main entryway (by the big parking lot).	Lunch Included – limited spaces; must register in advance
3pm-	Rodd Inn check in open		
7pm-9pm	Meet and Greet Reception	Rodd Inn	Hor d' oeuvres provided; cash bar; Conference Registration will be open.

Tuesday, October 16, 2018

Time	Activity	Location	Details
8am-5pm	Registration Open	NBCC Miramichi Campus, Main	Parking available in big lot
		Building	Registration in Foyer
8:30 am- 8:55am	Conference Opening-	Room A-1145	Welcoming Speeches
	8:30- 8:40 CLRA Host Chapter		Frank Potter; CLRA Atlantic Chapter President
	8:40- 8:45 First Nations Welcome		Elder Tulley Paul ;Metepenagiag Mi'kmaq Nation
	8:45- 8:55 President -CEO, NBCC		Marilyn Luscombe; President and CEO, NBCC
8:55 am – 10:15am	Session 1	Room A-1145	
	Opening Plenary		
10:15 am - 10:45 am	Morning Break/ Sponsor Booths	Foyer	Refreshments provided
10:45 am -12:15 am	Technical Sessions	Session 2 Room A-1145	Session 3 Room A-1125
12:15 am – 1:15pm	Lunch Break/ Poster Viewing	Room A-2232	Lunch served
12:30 pm – 1:00 pm	Lunch and Talk- Dr. Bob	Room A-1145	Bring your lunch from room A-2232. Dr.
	Darmody Reclamation of Prime		Darmody is a Professor Emeritus in Soil Science
	Agricultural Farmlands in Illinois:		and the current Executive Director of the
	Success After 40 years?		American Society of Mining and Reclamation
1:15 pm – 2:45pm	Technical Sessions	Session 4 Room A-1145	Session 5 Room A-1125
2:45 pm – 3: 15 pm	Afternoon Break/ Sponsor	Foyer	Refreshments provided.
	Booths		
3:15 pm- 4:45 pm	Technical Sessions	Session 6 Room A-1145	Session 7 Room A-1125
6 pm -7pm	Reception	Rodd Inn	Cash bar
7pm-9pm	Awards Banquet-	Rodd Inn	Banquet ticket required; included with full
	MC -Frank Potter		registration. Extra tickets may be purchased.
	Welcome and Awards- Andrea		Andrea McEachern; CLRA National President
	McEachern		
	Guest Speaker- Mr. Manford		Guest Speaker Mr. Manford Wasson; "Early
	Wasson		Settlement History of the Miramichi Area"

Wednesday, October 17, 2018

Time	Activity	Location	Details
8am-5pm	Registration Open	NBCC Miramichi Campus,	Parking available in big lot
		Main Building	Registration in Foyer
8:20- 8:30 am	Housekeeping Notes	Room A-1145	
8:30 am – 10:00am	Technical Sessions	Session 8 Room A-1145	Session 9 Room A-1125
10:00 am - 10:30 am	Morning Break/ Sponsor Booths	Foyer	Refreshments provided
10:30 am -12:00 pm	Technical Sessions	Session 10 Room A-1145	Session 11 Room A-1125
12:00 am – 1:15 pm	Lunch Break / Poster Viewing	Room A-2232	Lunch served
12:15 pm – 1:00 pm	Lunch and CLRA National AGM.	Room A-2234	Chair Andrea McEachern; CLRA National President.
	Open to all CLRA members.		Bring your lunch and participate in the CLRA
	Student Presentation awards.		National Annual General Meeting.
1:15 pm – 2:45pm	Technical Sessions	Session 12 Room A-1145	Session 13 Room A-1125
2:45 pm – 3:15 pm	Afternoon Break/ Sponsor	Foyer	Refreshments provided
	Booths		
3:15 pm- 4:45 pm	Technical Sessions	Session 14 Room A-1145	Session 15 Room A-1125
4:45 pm- 5:00 pm	Closing Comments	Room A-1145	Frank Potter
6 pm -8pm	Dinner	O'Donaghue's Irish Pub;	On your own for payment but reservations have
		Water Street	been made for CLRA attendees. Please indicate
			attendance on sign-up sheet at registration.

Thursday, October 18, 2018

Time	Activity	Location	Details
8:30- 8:45am Gather	Sungro peatland restoration	Meet at NBCC Miramichi	Lunch provided. Please register for trip prior to
for directions.	tour; Birch Ridge, NB	Campus parking lot; this is the	conference
9:00 am sharp Vehicles		final event of the conference.	
leave for tour	Travel in personal vehicles		Attendees can travel home from the restoration
9am- 2pm Bog tour		Drive to Birch Ridge, NB	site.
2pm	Conference adjourned.		

Technical Program-at-a-Glance Day 1 CLRA-ARC 2018, Miramichi, NB

Time	Tuesday, October 16				
8:00	Registration				
8:30	Conference Opening	Conference Opening			
Session	n 1 - Opening Plenary (OP)				
8:55	Capozi - Climate Change Projections and Anticipated Impact	s to New Brunswick			
9:35	Baechler - Thoughts on Reclamation Planning in Cape Breton	n's Changing Climate			
10:15	Mornin	ng Break			
Session	n 2 - Environmental Monitoring (EM)	Session 3 - Mine Reclamation (MR)			
10:45	Skinner - eDNA Solutions for Species Detections in Tidal Energy Environmental Effects Monitoring	Darmody - American Society of Mining and Reclamation: National and International Activities			
11:15	Chaudhary - Monitoring Effects of Pulpmill Effluents on Marine Sediments and Biota (student presentation)	Meiers - Progressive Mine Reclamation Enhancing This Practice to Include Mine Rock Dump Design			
11:45	Quanz - Effects of Waterbourne Effluent on Wetlands Surrounding an Industrial Waterwater Treatment Facility (student presentation)	Parker - Is There a Better way? Reconsidering Our Remediation Approach by Evaluating Sustainability: Summit Waste Rock, Scotchtown, Cape Breton, NS			
12:15	Lunch & Talk by Bob Darmody (Reclamation of Prime Agricultural Farmlands in Illinois: Success After 40 Years?)				
Session	ession 4 - Aquatic Habitat Restoration (AQ) Session 5 - Greening Mine Sites (GM)				
13:15	Jenkins - Reshaping the Oxbow: A Large-Scale Bank Restoration	Hewitt - Results of the Tundra Mine, NT, Revegetation Trial Using Locally Harvested Pioneer Species Instead of Grass Seed and Fertilizer			
13:45	Currie - McIntosh Brook Fish Habitat Restoration Project	Hewitt - Update on the Bioengineering Techniques for Revegetation of Riparian Areas at the Colomac Mine, NT: Seven Years Later			
14:15	Torenvlient - Restoration of Fish Passage at Two Orphaned, Low-Head Dams in New Brunswick	Thomson - An Ingenious Way to Control Weeds on your Next Reclamation Site			

Technical Program-at-a-Glance Day 1 CLRA-ARC 2018, Miramichi, NB

14:45	Afternoon Break		
Session	Session 6 - Mining Student Presentations (MS) Session 7 - Big Data and Policy (BD)		
15:15	Leblanc - Mercury and Arsenic Bioaccumulation and Biotransport in Aquatic Invertebrates at Contaminated Historical Gold Mine Sites	Chester - The Value of Utilizing Big Data and Historical Information while Conducting Phase I Environmental Site Assessments (ESAs)	
15:45	Chapman - Evaluating Risks of Historical Gold Mining Waste on Wetland Ecosystems and Potential Remediation Strategies	Ward - The Use of GIS in Applying Collaborative Evidence-Based Policies Related to Flood Vulnerability	
16:15	Stack - Challenges in Reconstructing Soils: Building the Foundation for Forest Restoration in Mine Reclamation Sites	Demerchant - NB Wetland Policy, Wetland Ecosystem Services Protocol (WESP), GeoNB for Wetland Mapping	
18:00	Evening Activities		

Technical Program-at-a-Glance Day 2 CLRA-ARC 2018, Miramichi, NB

Time	Wednesday, October 17		
Session	n 8 - Climate Change (CC)	Session 9 - Mining Perspectives (MP)	
8:30	Ells - A 2018 (10 Year) Follow Up and Review of the PIEVE 2008 Coastal Public Infrastructure Vulnerability Evaluation Case Study in Placentia, NL	Beckett - Sudbury, Ontario, Canada – Lessons Learned from 40 Years of a Community-based Regreening Programme on a Smelter-Impacted Landscape	
9:00	Bowron et al - Making Room for Wetlands: Application of Coastal Habitat Restoration for Climate Change Adaptation in Atlantic Canada	Spiers - Ecosystem Reclamation in Smelter-Impacted Landscapes in Northern Russia: A Tourist's Perspective	
9:30	MacEachern - Water Treatment in a Changing Climate World	Guittonny - Root Colonization in Mine Covers and Impact on their Functioning	

Technical Program-at-a-Glance Day 2 CLRA-ARC 2018, Miramichi, NB

10:00	Mornin	g Break	
Session	n 10 - Interventions (IN)	Session 11 - Mine Wastes (MW)	
10:30	Pauley - Petitcodiac Causeway Project	Coleman - In Situ Neutralization of Acid-Generating Waste Rock at the Fire Road Mine, Minto, NB	
11:00	Marcotte - Remediation and Restoration of the Lac Megantic, Quebec, Oil-Train Disaster	McDougall - Investigation of Potential Spot Treatments for Isolated Pockets of Acidic Mine Water at the Fire Road Mine (student presentation)	
11:30	Pett & Wilson - Avon Causeway Project	Spiers - Biogeochemical Processes at the Organic Technosol-Tailings Interface: Sudbury Examples	
12:00	Lunch	& AGM	
Session	Session 12 - Wetland Restoration (WL) Session 13 - Successful Partnerships (SP)		
13:15	Nash - Enhancing Headwater Wetlands in Palmer Brook	Keddy - Peatland harvesting and restoration on New Brunswick Crown Land	
13:45	Butler - Brunswick Smelter Saltwater Wetland Restoration	Cormier - Brunswick Mine: From World Class Ore Body to World Class Mining Operation to World Class Closure	
14:15	Graham et al Building on Ten Years of of Experience to Design the Truro-Onslow Dyke Realignment and Tidal Wetland Restoration Project	LeBlanc et al More than 100 Peatland Restoration Projects in Canada: A (Brief) History of a Successful Partnership Between Academic Research and the Horticultural Peat Industry	
14:45	Afternoon Break		

Technical Program-at-a-Glance Day 2 CLRA-ARC 2018, Miramichi, NB

Session	n 14 - Advances in Analytical Techniques (AT)	Session 15 - Initiatives and Innovations (II)	
15:15	Coleman - STAR (In Situ) and STARx (Ex Situ): Overview and Full-scale Applications of Smoldering Combustion for the Remediation of Contaminated Soils and Liquid Organic Wastes	Ferguson & Markey - Moving Forward, Together: Public Engagement and Water Licensing Approaches in Planning for Remediation of the Giant Mine Site	
15:45	Chessie - New Brunswick LiDAR	Turner - CN Initiative Protects Rare Plants and Provides Nature Trail to Community	
16:15	Sweet - Use of Near-Infrared Reflectance Spectroscopy for Real-Time Assessment of Contaminant Distributions and Soil Properties	Coleman - Thinking Outside the Box During Mine Reclamation to Increase Habitat Creation Opportunities	
16:45	Closing Comments		
18:00	Dinner Reservations at local Pub (sign up at Registration Desk)		

Poster Presentations Tuesday and Wednesday Room A-2232

Alfredo	
Carcamo	Natural Salinity Characterization of Soils in Southern Alberta
Tony Bowron	Looking Back over 15+ Years of Tidal Wetland Restoration Projects in Nova Scotia, Canada
Jennie Graham	High Resolution, Low-Altitude Aerial Photography for Habitat Restoration, Monitoring and Mapping.
	Striking a Balance: Applying Ecomorphodynamic Principles to Enhance Resilience of Dykelands to Climate
Tony Bowron	Change
Mélina Guêné-	
Nanchen et Line	Régénération de la végétation dans les sites d'emprunt utilisés pour la restauration des bogs
Rochefort	





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