

OSSGA, CLRA & OMA

Ontario Land Reclamation and Rehabilitation Symposium and Field Trips

2-Day Workshop and Tour
June 26-28, 2017

University of Guelph
50 Stone Rd. E Guelph, Ontario


Presented by:

Ontario Stone, Sand & Gravel Association

Canadian Land Reclamation Association

Ontario Mining Association

To Register Click [Here](#)





The aggregate industry is one of the leading land use rehabilitators in the province.

Together with community partners we enhance or create new natural areas, agricultural lands, wetlands, recreational spaces and more.

Don't miss this opportunity to gain first-hand knowledge on new and upcoming best practices in site reclamation and rehabilitation.

FOUNDER'S RECEPTION MONDAY, JUNE 26

An event to recognize the founders of CLRA who have made outstanding contributions to rehabilitation within the mining and aggregate industries. Hosted at the Guelph Arboretum which was awarded an OSSGA Bronze Plaque in 1996 for its reclamation of a gravel pit to an outstanding education and research asset to the University and community.

DISCOVER

This year we present the opportunity for the mining, aggregate and brownfield sectors to come together to compare rehabilitation techniques and innovations and help expand our knowledge and networking base.

The symposium will showcase one day of technical presentations and posters, in addition to reclamation and student award presentations. As the birthplace of the CLRA in 1975, with excellent examples of rehabilitation close to campus, the University of Guelph is the ideal location for the 2017 symposium.

EXPLORE

Aggregate companies, mining companies, consultants, students, environmental NGO's, First Nations, Conservation authorities, government officials and public sector employees are all encouraged to attend and share their knowledge of the rehabilitation industry. Learn from industry experts and find out the latest research practices from those in the field.

Day two will feature a choice of two tours of regional sites, demonstrating research and advancements in mining, aggregate, and brownfield rehabilitation.

DAY 1 • SYMPOSIUM PRESENTATIONS

TUESDAY, JUNE 27

Reclamation Plenary Dr. Bev Hale, University of Guelph

The Use of Habitat Equivalency Analysis to Quantify Reclamation Success Demonstrating Net Gain Biodiversity Ginny King & Barbara Hard, Arcadis

Beyond 3:1 and MTO Mix Rehabilitation Stephen May, CBM Aggregates

Excess Soil Management Regulations Speaker TBD, MOECC

Role of Relative Humidity in Governing Fugitive Dust Concentrations Cheryl McKenna Neuman, Trent University

Moving Towards the Integration of Technology into Indigenous Knowledge-Led Site Remediation Solutions Mary Bowden, Eighth Fire Solutions

Concurrent Session A

The Recycling of Recycled Materials in Restoration of Mining Sites Neil Ryan, Englobe

Integrated Approach to the Rehabilitation of Mine Workings and Tailings Management Areas at a Former Uranium Mine Site Mike Gunsinger, Golder Associates

The Influence of Time, Soil Organic Matter, and Leach Rate on Nickel Speciation in Soil and Its Effect on Bioaccessibility Bev Hale, University of Guelph

Evaluating the Ability of Alyssum Mural L. to Extract Nickel from Nickel-Elevated Soils from Port Colborne, Ontario Kim Zupfer, University of Guelph

Site Characterization and Cleanup Criteria for Long Lake Gold Mine Ljiljana Josic, SNC Lavalin

A Review of Geochemical Interactions of Aggregate and Amendment Types in Mine Reclamation Jennifer Durocher, Klohn Crippen Berger

Early Biodiversity in Technosols on Mine Rock in the Boreal Shield Renate Vanderhorst, Laurentian University

Tactical Deployment of Hydromulch as a Cost Effective Method to Coal Mine Reclamation in Weedy Environments Trevor Kloeck, Synermulch Erosion Control Products

Concurrent Session B

Rapid Ecological Restoration for Aggregate Sites: Mimicking Habitats and Relocating Living Mulch from Hardwood Forests

Paul Richardson, University of Waterloo

Rehabilitation at the Cannington Pit in Brock Township Mike Lebreton, CBM Aggregates and Glenn Harrington, Harrington McAvan

"Just Add Water": Wetland Restoration in Aggregate Rehabilitation Plans

Mike Williams, Ducks Unlimited Canada

Erosion Control Solutions for Soil Management and Vegetative Establishment Cathy Wall, Quality Seeds

Metal Mixtures in Soil: Testing the Concentration Addition Approach as a Risk Assessment Tool

Pooja Arora, University of Guelph

Rehabilitation of a Quarry to a Vineyard: A Case Study of Walker Aggregates' Vineland Quarries

Frank Kielbowich, Walker Aggregates

A Wind Tunnel Evaluation of the Efficacy of Four Commercial Surface Treatments for Dust Suppression Colette Preston, Trent University

Capability and Benefits of Using Unmanned Aerial Vehicles (UAVs or Drones) for Aggregate Rehabilitation Daniel Metzger, Enaerica Inc

Reception & Banquet Delta Hotels Guelph Conference Centre - 50 Stone Rd. W.

A full schedule will be available upon arrival.

Tours

Option 1: Aggregate Tour 8:15 am - 4:00 pm

The Aggregate Tour will feature a tour of brownfield sites and aggregate sites within the Guelph area that have been rehabilitated to a variety of land uses.

Tour stops include:

- **Eastview Pollinator Park**, a former 45 ha landfill site that is now home to pollinator habitat.
- **Kelso Quarry Park**, a rehabilitated quarry within the NEP and Greenbelt, that now contains a lake, beach, boardwalk, shoals for fish habitat and a trail network that connects to the Bruce Trail.
- A naturalized aggregate site which includes a rare fen plant community and is located just north of the **Fletcher Creek Ecological Preserve**.
- **CBM's McMillan Pit**, a former pit converted to an aquaculture facility which is now home to thousands of rainbow trout.
- **Capital Paving's Wellington 5 Pit** where the land was returned to agricultural use, and rehabilitation plans include a wildlife corridor.
- **Guelph Metalworks**, a Canadian Brownsfield Network award winner for reclamation of industrial lands.

Option 2: Mining Tour 8:00 am - 5:00 pm

The Mining Tour will include visits to the experimental plots near the city of Port Colborne ON, the location of Vale Canada's Ni refinery, which operated until the early 1980s, resulting in elevated soil Ni, Cu and Co concentrations in agricultural fields and woodlots. Remediation strategies being demonstrated on the agricultural fields include deep-till and liming at various rates. The tour will also stop at a woodlot on soil with very high Ni concentrations, for which remediation options are being considered.

Visits to two other locations are also planned.

Delegate Registration (HST not included)

Multiple packages are available:

Option #1 - Founder's Reception, Symposium, Awards Dinner and Tour

- OSSGA or CLRA Members: \$375
- Non-members: \$450
- Students: \$250

Option #2 - Symposium Only

- OSSGA or CLRA Members: \$250
- Non-members: \$325
- Students: \$150

Option #3 - Founder's Reception Only

- \$35

Option #4 - Awards Dinner Only

- \$125; 2nd ticket \$100

Option #5 - Tour Only (Includes Lunch)

- \$150

Exhibitor Rate

Includes full-package symposium, dinner and tour, 10' x 8' space, table and chair.

Please Contact Julie Harrington at jharrington@ossiga.com for more information.

To register online click [here](#).

Accommodations

Two bedroom blocks have been booked:

- **Delta Guelph**
Only available for two-night stays, June 26-27. Book your room [here](#).
- **Holiday Inn Guelph**
Available for both one and two-night stays, June 26-27. Book your room [here](#).

Limited rooms available.

Dress Code: The workshop and the dinner are a business meeting. The tour requires **Personal Protective Equipment**.