



CURRENTS OF *change*
inspiring • creating • transforming

2019 PROGRAM

NOVEMBER 19-21, 2019

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UNIVERSITY
of GUELPH

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Conservation Ontario

Kim Gavine
General Manager

University of Guelph

Dr. Nicolas Brunet
School of Environmental Design and Rural
Development

SYMPOSIUM MANAGEMENT

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Vice Chair: **Janet Ivey**, Grand River Conservation Authority
Symposium Coordinator & Registrar: **Karen Anderson**, Allset Inc.
Symposium Coordinator & Website Coordinator: **Mario Maillet**, Allset Inc.
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WELCOME: CHAIR'S MESSAGE

When I sat down to write this Chair's message, I wanted to avoid repeating what I wrote in last year's message and to be different from previous years' Chair messages. So, in keeping with the theme of this year's symposium, "Currents of Change: Inspiring, Creating, Transforming", I wanted to change things up a little and in doing so, provide a shorter message, give you more time to review all the great information in this program, connect with colleagues and make new acquaintances.



While change can be difficult, especially when the change is not within your control, change can also be a great motivator, a way to look at things differently, a chance to take stock of your direction and a way to reinvigorate yourself and those around you. This year's symposium provides many opportunities over a wide range of topics to consider change, how it impacts our natural resources, conservation programming, our communities and people.

This is the Latornell Conservation Symposium's 26th Year. I would like to thank you for attending, whether this is your first time at the symposium or you are a long-time member of our Latornell Conservation Symposium community. Our program this year, as always, provides a range of presentations, workshops and tours to highlight the tremendous conservation work that is being completed in Ontario over a wide range of topics.

I would like to thank my fellow committee members for their hard work, dedication and co-operation to bring this conference together. The planning and development of the Latornell Conservation Symposium takes a full year to complete and would not be a success without the dedicated committee members and our partners. Thank you all!

I look forward to meeting and talking with you and I encourage you to take advantage of your time at the 2019 Latornell Conservation Symposium.

Scott Peck
Chair, 2019 Latornell Conservation Symposium



Embrace **change**



To meet the global demands of water, energy and urbanization we are transforming the way we work, and co-creating solutions with our clients as we embrace new technologies and respond to changing community needs.

GHD proudly supports **Latornell Conservation Symposium**
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LATORNELL CONSERVATION SYMPOSIUM

CURRENTS OF CHANGE: INSPIRING · CREATING · TRANSFORMING

Welcome to the 26th annual Latornell Conservation Symposium co-hosted by Conservation Ontario and the University of Guelph. This event provides a forum for practitioners, policy makers, non-government organizations, academics and businesses to network and discuss the challenges and opportunities in Ontario's conservation field.

Many of today's economic, environmental, and social challenges are impacting the health of Ontario's natural resources and requiring us to re-think traditional approaches. To ensure healthy watersheds and people, we need to continue to look forward, adapt and find innovative new ways to protect our critical natural resources.

At this year's Latornell Conservation Symposium, we're asking delegates to share their research and experiences in order to refresh, motivate and inspire the shifts we need to make in order to transform our approaches and match the pace at which our challenges change. All on a tight budget, of course.



ARTHUR D. LATORNELL



The namesake of the Latornell Conservation Symposium is Arthur D. Latornell, a pioneer and leader in the development of Ontario's conservation sector. A forward thinking and dedicated conservationist, Art Latornell had a long career in Planning and Development at the Ministry of Natural Resources. Art was associated with the Federation of Ontario Naturalists, and he was the president of the Ontario Soil and Water Conservation Society (Ontario Chapter).

Mr. Latornell was a strong supporter of Conservation Authorities and a mentor to many young conservation professionals.

The University of Guelph manages the A.D. Latornell Endowment Fund and provided a contribution to the 2019 Latornell Conservation Symposium.

LATORNELL LOGO - DO YOU SEE THE PROFILE OF TWO PEOPLE?



The Latornell Conservation Symposium logo uses an ancient tree symbol which represents the conservation of our natural resources. The trunk contains the profile of two people – a young conservation professional and a mentor, representing the important role for experienced conservationists to assist in the development of younger conservationists.

“Change will not come if we wait for some other person, or if we wait for some other time. We are the ones we've been waiting for. We are the change that we seek.”

Barack Obama

2019 PROGRAM AT A GLANCE

DAY ONE - TUESDAY, NOVEMBER 19

7:00 AM - 9:00 AM	Registration: Refreshments – provided on the Convention Level (lower level)
9:00 AM - 10:30 AM	Opening Plenary: Opening Remarks Indigenous Opening: Jake Charles , Chippewas of Georgina Island First Nation Keynote Speaker: Rebecca Thomas , Mi'kmaw Poet and Activist
10:30 AM - 11:00 AM	Refreshment Break with Exhibitors & Indigenous Artisans
11:00 AM - 12:30 PM	Concurrent Sessions and Panel » T1A: Do You Know What's in Your Water? » T1B: What's New from 'In the Field' Soil Health Research? » T1C: Un-complicating the Complicated » T1D: Case Studies in Innovative Conservation Practice » T1E: The Only Constant is Change – The Evolution of Conservation Authorities » T1F: Panel - Innovations in Tile Drainage: Lessons from a Huron County Demonstration Farm
12:30 PM - 1:45 PM	Luncheon in the Conservation Dome Welcome Remarks Latornell Leadership Awards Presentation
2:00 PM - 3:15 PM	Concurrent Sessions, Field Trips & Tours » T2A: Aquatic Habitat, Water Quality Monitoring and Water Security – What Does the Data Tell Us? » T2B: What's New in Academic Soil Health Research? » T2C: Connecting People to Nature » T2D: Protecting Land and Water: From Regional to Grass Roots Efforts » T2E: Changes to the Conservation Authorities Act » T2F/T3F: Off-site Tour - Forest Therapy - Take a Walk in the Woods [2 PM - 5:15 PM] » T2G/T3G: Off-site Tour - Endangered Species Site Walk [2 PM - 5:15 PM]
3:15 PM - 3:45 PM	Refreshment Break with Exhibitors & Indigenous Artisans
3:45 PM - 5:15 PM	Concurrent Sessions, Workshop & Field Trips » T3A: Workshop - Exploring an Indigenous Relationship with Water » T3B: Restoring Healthy Soils » T3C: Taking Science to the People » T3D: Moving from Individual to Institutional Stewardship: Cases from across the Province » T3E: Digital Transformations – Building Capacity and Efficiency » T2F/T3F: Off-site Tour (continued) - Forest Therapy - Take a Walk in the Woods [2 PM - 5:15 PM] » T2G/T3G: Off-site Tour (continued) - Endangered Species Site Walk [2 PM - 5:15 PM]
5:30 PM - 7:00 PM	Exhibitor Galleries A and B, Networking Event / Indigenous Artisan Marketplace (Gallery B) / Live Animal Exhibit (Gallery B)
7:00 PM - 8:30 PM	Harvest Banquet Dinner Soil and Water Conservation Society (SWCS) A.D. Latornell Award of Merit Presentation
8:15 PM - 8:30 PM	Wine + Craft Beer Prize Ticket Sale and Draw in the Conservation Dome
Approximate 8:30 PM start time	Choose Your Own Adventure Social Events (see pages 25 & 26) » Whiskies Around the World Event » Creative Workshop: Macramé Plant Hanger » Jungle Quest Team Mini-Golf Tournament » Continue to Mix and Mingle in the Exhibit Halls » The Latornell After Party (The LAP!) in the Starlite Lounge
9:00 PM - 1:00 AM	The Latornell After Party (The LAP) in Starlite Lounge (see page 26)

*The following events take place in the Conservation Dome on Tuesday and Wednesday:
Welcome and Introductions @ Opening Plenary, Keynote presentations, Latornell Leadership Awards Presentation, Lunches and Dinners, Post Graduate Student Poster Display and Competition, Silent Auction, and Gala Banquet*

2019 PROGRAM AT A GLANCE

DAY TWO - WEDNESDAY, NOVEMBER 20

7:00 AM - 9:00 AM	Registration: Refreshments – provided on Convention Level (lower level)
8:30 AM - 9:45 AM	Concurrent Sessions, Workshop & Field Trip <ul style="list-style-type: none"> » W1A: Fish Habitat - Restoration and Policy » W1B: High Tech Dirt: Tools for Soil Health & Nutrient Management » W1C: Helpful or Over-Hyped? Stormwater Management in the ‘Internet of Things’ Era » W1D: Workshop - Applications and Advances in eDNA (Part 1) » W1E: Talk Dirt to Me: The Latest Tools, Technology and BMPs for Preventing, Tracking and Assessing Erosion Risk » W1F: Workshop - The Psychology of Spaces » W1G-W4G: Workshop & Off-site Tour - Aggregate Resource Planning and Rehabilitation [8:30 AM - 4:45 PM]
9:45 AM - 10:15 AM	Refreshment Break with Exhibitors & Indigenous Artisans
10:15 AM - 11:45 AM	Concurrent Sessions, Workshop & Field Trip <ul style="list-style-type: none"> » W2A: Changes Over Time - Watershed Plans and Floodplains » W2B: Civil Defense...for Soil! Citizen Soil Health Science » W2C: Data-Driven: Assessing the Performance of Green Stormwater Infrastructure » W2D: Workshop - Application and Advances in eDNA (Part 2) » W2E: Stormwater Management 2020: It’s Not Black and White - It’s More Grey and Green » W1G-W4G: Workshop & Off-site Tour (continued) - Aggregate Resource Planning and Rehabilitation [8:30 AM - 4:45 PM]
11:45 AM - 1:15 PM	Luncheon <ul style="list-style-type: none"> » Keynote Speaker Dave Meslin, Political Entrepreneur & Engagement Specialist
1:30 PM - 2:45 PM	Concurrent Sessions, Workshop and Field Trips <ul style="list-style-type: none"> » W3A: Web-Based Data Access - Changing the Way We Manage Water Resources (Part 1) » W3B: Panel - Adapting The ‘4R’ Nutrient Stewardship Approach for Ontario’s Farmers » W3C: Put Your Road on a Low-Salt Diet! » W3D: New Tools for Natural Heritage Conservation » W3E: Stormwater Management 2020: It’s Not Black and White - It’s More Grey and Green (Continued) » W3F/W4F: Off-site Tour - Forest Therapy Walk: Indigenous Focus [1:30 PM - 4:45 PM] » W1G-W4G: Workshop & Off-site Tour (continued) - Aggregate Resource Planning and Rehabilitation [8:30 AM - 4:45 PM]
2:45 PM - 3:15 PM	Refreshment Break with Exhibitors & Indigenous Artisans
3:15 PM - 4:45 PM	Concurrent Sessions, Workshop and Field Trips <ul style="list-style-type: none"> » W4A: Web-Based Data Access - Changing the Way We Manage Water Resources (Part 2) » W4B: Panel - Let’s Hear it from Farmers » W4C: Tools and Technologies for Green Infrastructure Assessment, Standardization and Management » W4D: Making the Business Case for Ecological Restoration: Assessing the ROI from Three Local Case Studies » W4E: Urban Ecosystem Management and Restoration » W3F/W4F: Off-site Tour - Forest Therapy Walk: Indigenous Focus (continued) [1:30 PM - 4:45 PM] » W1G-W4G: Workshop & Off-site Tour (continued) - Aggregate Resource Planning and Rehabilitation [8:30 AM - 4:45 PM]
5:00 PM - 8:30 PM	Gala Evening , including: <ul style="list-style-type: none"> • Post Graduate Student Poster Display and Competition • Dream Auction • Gala Banquet • Young Conservation Professionals (YCP) Graduation
Approximate 8:30 PM start time	Choose Your Own Adventure Social Events (see page 40) <ul style="list-style-type: none"> » Latonnell Networking Event sponsored by AECOM » Film Night with Jen Podemski – showing of an episode of Future History following by a Q&A » Continue to Mix and Mingle in the Exhibit Halls and the AECOM Networking Lounge

2019 PROGRAM AT A GLANCE

DAY THREE - THURSDAY, NOVEMBER 21

7:00 AM - 9:00 AM	Registration: Refreshments – provided on Convention Level (lower level)
7:30 AM - 8:45 AM	Early Bird Professional Development Breakfast – in Room 41
9:00 AM - 10:15 AM	Concurrent Sessions & Workshop <ul style="list-style-type: none"> » TH1A: Innovative Practices for Floodplain Mapping, Flood Forecasting and Watershed-Scale Criteria for Flood Control » TH1B: Climate Change: Flooding and Adaptation Planning » TH1C: Application of Novel Methods in Watercourse Restoration » TH1D: Latest in Biodiversity Research - Northern and Rural Ontario » TH1E: Workshop - Municipal Strategies for Addressing the Truth and Reconciliation Calls to Action » TH1F/TH2F: Workshop - Wampum Belts Related to Anishinaabe History [9 AM - 12 PM]
10:15 AM - 10:45 AM	Refreshment Break with Exhibitors & Indigenous Artisans
10:45 AM - 12:00 PM	Concurrent Sessions & Workshop <ul style="list-style-type: none"> » TH2A: Water Use, Water Conflict and Water Management: What Have We Learned? » TH2B: Building a Foundation: Deriving Local Climate Change Projections and Guidance for use by Durham Region and Greenbelt Municipalities » TH2C: Innovative Methods in River Management » TH2D: Latest in Biodiversity Research – Urban and Suburban Environments » TH2E: Valuing Nature: Fish Habitat Banking and Ecosystem Compensation » TH1F/TH2F: Workshop (continued) - Wampum Belts Related to Anishinaabe History [9 AM - 12 PM]
12:00 PM - 1:30 PM	Luncheon Keynote Speaker: Dr Peter Beckett , Restoration Ecologist Indigenous Closing: Jake Charles , Chippewas of Georgina Island First Nation
1:45 PM - 3:00 PM	Concurrent Sessions & Workshop <ul style="list-style-type: none"> » TH3A: Panel - Building a Circular Economy for Phosphorous » TH3B: Climate Change Impacts to the Great Lakes Shoreline » TH3C: Good Things Happening: Case Studies in Channel Restoration » TH3D: Green Infrastructure & ReconciliACTION » TH3E: Protecting Our Resources: Tools, Case Studies and Recommendations for Municipalities
3:15 PM - 4:30 PM	Concurrent Sessions & Workshop <ul style="list-style-type: none"> » TH4A: Costs and Benefits of Water Management in Ontario's Greenbelt » TH4B: Climate Change Plans Through Collaboration » TH4C: Enhancing Environs: Supporting Species Using Natural Channel Design Principles » TH4D: Post-Construction Restoration Projects: Elements of Success » TH4E: Measuring Impact: Developing Key Performance Indicators for Environmental Projects and Programs

Did You Know? We Have a Device Charging Station

Are you headed to a session and your phone's battery is running low? No need to worry! Borrow a power bank and charge your mobile device on the go.

Look for the Device Charging Station sign near the Registration Desk.

Sponsored by Ducks Unlimited Canada



*The following events take place in the Conservation Dome on Thursday:
Luncheon and Keynote presentation*

STUDENT MODERATORS

MEET THIS YEAR'S STUDENT MODERATORS

Being a student moderator at the Latornell Symposium is a highly competitive position. It is an excellent opportunity for post-secondary students to practice public speaking, interact with a diverse group of conservation-minded individuals, and attend an extensive range of presentations by industry leading experts.

This year's moderators are from a broad range of disciplines including Geography, Rural Studies, Planning, Engineering, Biology and Environmental Science. Guided by Jessica Lukawiecki, our student moderators will play an instrumental role in the success of the Symposium and the Steering Committee is honoured to be working with them.

2019 STUDENT MODERATORS	
Led by: Jessica Lukawiecki	University of Guelph
Michelle Agagnostou	Western University
Lisa Ashton	University of Toronto
Jenn Baici	Trent University
Emily Duncan	University of Guelph
Liz Favot	Queen's University
Anum Khan	Ryerson University
Keiran Lehan	McMaster University
Fatima Mahmud	University of Toronto
Danielle Mayers	University of Guelph
Chirag Patney	University of Guelph
Paul Michael Pilkington	Brock University
Rachel Singer	University of Guelph

THIS EVENT IS



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LATORNELL CONSERVATION GRANT

The Latornell Conservation Symposium Grant was established in memory of Art Latornell to support students and active members of the conservation community so that they may attend this popular event. Funds to support the grants are raised through the Symposium’s annual Dream Auction. This year we are featuring the 18th annual “Dream Auction”. With over \$12,000 raised at last year’s auction, our awards will enable 18 students and/or representatives of smaller environmental non-governmental organizations to attend this year’s conference.

Since 2002, a total of 331 people have received a grant. Applicants must be a student (college or university) or affiliated with an Ontario not-for-profit/community conservation organization either as an employee or volunteer.

Recipients receive either a three day or a one day registration package, including conference meals, and up to two nights’ accommodations at the Nottawasaga Inn.

Individuals interested in applying for a 2020 Symposium grant are encouraged to do so at: www.latornell.ca/grants.

NAME	AFFILIATION
Alexandra McClymont	Queen's University
Amanda Draves	Conservation Halton
Cameron Curran	The Couchiching Conservancy / Ministry of Natural Resources and Forestry
Christine Bowen	Bay Area Restoration Council
Emily Febrey	Catfish Creek Conservation Authority
Emily Sousa	University of Guelph
Jaklynn Nimec	Ontario Nature
Jenn Court	Green Infrastructure Ontario Coalition
Kate Potter	Smooth River Consulting
Kevin Lukawiecki	CIMA+, Engineering Consulting
Laura Moore	Kawartha Conservation
Marc-Antoine Larrivee	University of Guelph
Martin Millen	Matachewan First Nation
Monica Seidel	Watersheds Canada
Nikole Priestman	Severn Sound Environmental Association, Lakehead University
Paige Allen	University of Guelph
Sarah Herr	Living Green Barrie
Vicky Boyd	Credit Valley Conservation

“Be the change that you wish to see in the world.”
Mahatma Gandhi

LATORNELL PROFESSIONAL DEVELOPMENT

THE LATORNELL PROFESSIONAL DEVELOPMENT PROGRAM

The Latornell Professional Development and Mentorship Program fosters opportunities for learning, career growth, and networking within the environmental sector. The program hosts events and workshops to connect individuals interested in experiential learning, network building, and the broad aspects of professional development. Within this context, there are several related activities as part of the 2019 Symposium Program. We have a collection of events and activities to generate a variety of opportunities for people to purposefully connect with new people of all ages with similar interests and to share stories and experiences and learn from one another. Your experience with this program may be a single conversation or it could end up being a life-long professional connection.



Did you remember to register for our Professional Development Breakfast on Thursday November 21st at 7:30 AM?

If you are interested in attending but did not register for it during the registration process - visit the registration desk to see if there are spaces available and to obtain an entrance ticket.

HERE IS WHAT MENTORSHIP MEANS TO WAYNE CALDWELL

“Relationship, dialogue, learning and transfer of knowledge are all words or phrases that come to mind when I think of the term mentorship. Personally, I have benefitted from the experience and generosity of others in the on-going development of my own career. This assistance has been particularly helpful in framing what it means to be a professional and in understanding the sensitivities that often accompany decision making and political processes. Likewise, as my career has progressed I have attempted to assist others where I am able to. I see this as both a privilege and an obligation. A privilege in the sense that I have the opportunity to contribute to the career development of future leaders and an obligation in the sense of my belief that this is a fundamental contribution that can be made to society and my profession.”

Wayne Caldwell, Professor and Coordinator of Rural Planning and Development, School of Environmental Design and Rural Development, University of Guelph

For more information about the program, visit Latornell’s Professional Development page at www.latornell.ca/professional-development/ or reach out to LatornellIPD@latornell.ca.

We look forward to welcoming you into the Professional Development Program!

VISITING WITH EXHIBITORS & INDIGENOUS ARTISANS

There are two areas where delegates can visit exhibitors and Indigenous artisans during the Latornell Conservation Symposium.

Exhibitors:

The first area is the Inn Lower Level (Galleries A & B)

A second area, the Conservation Dome, is located in the Plenary Area where meals are served, keynote speaker presentations and several social events take place.

Indigenous Artisans:

The Inn Lower Level (Gallery B)

GALLERY A & B EVENT SCHEDULE

TUESDAY

8:30 AM – 10:00 PM	Gallery A and B Open Hours
10:30 AM – 11:00 AM	Refreshment Break with Exhibitors & Indigenous Artisans
3:15 PM – 3:45 PM	Refreshment Break with Exhibitors & Indigenous Artisans
5:30 PM – 7:00 PM	Exhibitors' Networking Reception in Galleries A & B
8:30 PM – 10:00 PM	Mix and Mingle in the Exhibit Halls

WEDNESDAY

8:30 AM – 10:00 PM	Gallery A and B Open Hours
9:45 AM – 10:15 AM	Refreshment Break with Exhibitors & Marketplace Vendors
2:45 PM – 3:15 PM	Refreshment Break with Exhibitors & Marketplace Vendors
8:30 PM – 10:00 PM	Mix and Mingle in the Exhibit Halls

THURSDAY

8:30 AM – 12:00 PM	Exhibit Galleries Open Hours
10:15 AM – 10:45 AM	Refreshment Break with Exhibitors & Marketplace Vendors

BACK BY POPULAR DEMAND – SCALES NATURE PARK COMES TO LATORNELL

During the Exhibitor's Networking Reception, Tuesday, 5:30 PM - 7:00 PM in Exhibit Gallery B



Scales Nature Park is a conservation centre focused on Canadian reptiles, amphibians, and fish and the habitats that sustain these creatures. The live collection of Canadian reptiles and amphibians at Scales Nature Park is the most complete in the country, and is used for educational programming and other conservation activities.

The facility is open to the general public (hours vary seasonally) and also provides outreach programming at a wide variety of venues, with clients including Ontario Parks, Parks Canada, conservation authorities, NGOs, libraries, schools, First Nations communities and many others. Scales Nature Park also conducts field research and stewardship activities, such as the Saving Turtles at Risk Today (START) project, which provide additional opportunities for volunteers and citizen scientists to get involved. www.scalesnaturepark.ca

COME FOR THE CONFERENCE, STAY FOR THE FOOD!

It's when conference attendees put down their pens and pick up a fork that the conversation really starts!

Over the years, the Latornell Steering Committee has worked closely with the dedicated Nottawasaga Inn culinary team to provide innovative and delicious menu options highlighting locally grown and in-season menus for our delegates. Whenever possible, the chefs locally source the produce to make sure it's fresh and sustainable.

We thank the Nottawasaga Inn and their staff for their excellent meals we have enjoyed over the last many years.

Bon appetite!

A Sample of our Local Foods:

Beets –Bradford

Broccoli – Exeter

Butternut Squash – Scotland

Cabbage – Milton

Cauliflower – Brampton

Corn – Simcoe

Eggplant – Kingsville

Grape Tomatoes – Wilsonville

Melons (fruit salad) – Innerkip

Mushrooms – Leamington

Peppers – Oakland

Potatoes – Stayner

Red apples – Carlisle

Turkey – Thamesville

Yams – Blenheim



Photo Credit: Stevie Scott, Alliston

INDIGENOUS ARTISANS

DID YOU KNOW ABOUT THE INDIGENOUS ARTISANS MARKETPLACE?

Indigenous art comes out of living cultures, enabling our artists to use traditional values, storytelling, nature, and events to create traditional and contemporary art. Their art is in many different forms including paintings, drawings, jewellery, handbags, clothing, baskets, and so much more and is available for purchase at our Latornell Indigenous Artisans Marketplace.

Our featured artists have been influenced by different places, cultures, and backgrounds. Understanding the cultural context their art was produced within will provide you with a deeper insight and appreciation of the artists and their work. Not only is the marketplace a great place to find Indigenous items, but it's also a great way to meet some very interesting people.

So stop by our Marketplace in Gallery B to meet our artisans, strike up a conversation, and start your holiday shopping.

Booth #33: Marcos Arcentales

Booth #34: Barbra Nahwegahbow

Booth #35: Leah Atkinson

Booth #36: Pol Carlos & Aimee Rochard

Booth #37: Jeffrey George

Booth #38: Diane Montreuil



Planting for Our Future

Proud to plant trees that help offset the footprint of the Latornell Symposium



www.forestsontario.ca

OPENING PLENARY SESSION

KEYNOTE: REBECCA THOMAS, MI'KMAW POET AND ACTIVIST

Rebecca Thomas is a Mi'kmaw poet and activist who does not want to be a poet or activist. She just happens to be good enough at poetry and persuasion to get people to listen but her ultimate goal is to make Canada a better place for her Indigenous community because so many people tend to forget they were here first.

She has accidentally found herself as the Poet Laureate of Halifax (2016-2019). She has performed with a Tribe Called Red and has spoken and lectured at conferences and coffee houses from coast to coast. She writes kids books about growing up the child of a residential school survivor. She has written for the CBC and Washington Post but has yet to make a chapbook.

She's collaborated with composer Laura Sgroi to bring together a three poem story and full orchestral score which had its debut with the Kitchener Waterloo Symphony in the spring of 2019. She pays her bills by working as a Senior Consultant for Diversity and Inclusion with the provincial government.



“Never doubt that a small group of thoughtfully committed citizens can change the world. Indeed, it’s the only thing that ever has.”

Margaret Mead



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TD Friends of the Environment Foundation

Proud to support the
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Latornell
Conservation
Symposium**

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DAY ONE

11:00 AM – 12:30 PM

Watershed Management

T1A ROOM 2

Do You Know What's in Your Water?

Pollutants in water supplies could overwhelm our capacity to detect, treat or provide warnings. How can municipalities work with conservation authorities and Source Water Protection to understand these materials and their impact on public health? Are conservation authorities equipped to provide this service and what is the provincial policy framework?

Tom Scott

Rideau Valley Conservation Authority (Retired)

George Scott

Niagara Beeway

Soils, Soil Health and Nutrient Management

T1B ROOM 7

What's New from 'In the Field' Soil Health Research?

From the field to the stream, the identification and management of nutrient sources remains an exciting area of investigative effort. This session will provide a summary of recent research in nutrient source loadings and transport from a practical, in-field perspective.

What's New in Soil and Water Research for Ontario Agriculture?

Darryl Finnigan

Ontario Ministry of Agriculture, Food and Rural Affairs

Working with Farmers to Protect Municipal Drinking Water in the Township of Tiny, Severn Sound

Melissa Carruthers

Severn Sound Environmental Association

[@SSEA_SSRAP](#)

Phosphorus Loading Trends in the Upper Medway Creek

Dr. Imtiaz Shah

Upper Thames River Conservation Authority

and Ankita Hazarika

University of Western Ontario

Communications, Marketing and Outreach

T1C ROOM 8

Un-complicating the Complicated

Learn how to unpack big and innovative ideas by using strategic and collaborative approaches.

Demystifying Conservation Strategy: How Credit Valley Conservation Made Easy Reading of Hard Ideas

Brad Fauteux

Credit Valley Conservation

Responding to the Need for Resilience: Lessons Learned around Communicating Climate Complexity

Glenn Milner

Savanta Inc.

Modern Marketing for Results: Lake Simcoe Region Conservation Authority's Grant Program Communications Overhaul

Melissa Rosato

Lake Simcoe Region Conservation Authority

Did You Know? The TD Friends of the Environment Foundation Is a Supporter of the Symposium

Funding from the TD Friends of the Environment Foundation allowed us to ensure meaningful inclusion of Indigenous environmental/conservation projects and perspectives throughout the Latonnell Conservation Symposium. This year we were able to include keynote speakers, session speakers, delegates, Indigenous artisans, and social events in our program and we are looking forward to continually build on this success in the upcoming years

Natural Heritage and Stewardship

Change Management

Workshops and Field Tours

Workshops and Field Tours

T1D ROOM 1

T1E ROOM 9

T1F ROOM 11

T1G ROOM N/A

Case Studies in Innovative Conservation Practice

Cases of successful conservation practice from across the region will be presented by representatives from different sectors. Cases will highlight the role of multi stakeholder partnerships, collaborations and innovative funding programs in achieving stewardship outcomes.

Protecting the Cheltenham Badlands through Partnership
 Kathy Hering
 Ontario Heritage Trust
 @ONheritage

Marketing in the Muck - Restoration Success in the Holland Marsh
 Lori McLean and Nancie Knight
 Lake Simcoe Region Conservation Authority

Sustainable Urban Neighbourhoods: A Pathway toward Collaborative Neighbourhood Transformation from Peterborough, Ontario
 Heather Ray
 Peterborough GreenUP Association

The Only Constant is Change – The Evolution of Conservation Authorities

If you don't know where you've come from, you don't know where you're going. Join this session for retrospectives on the evolution of land and water conservation in Ontario and hear how conservation authorities have weathered changing environmental, economic, social and political circumstances. What can our past teach us about our future?

Conservation by the People: The Origins and Future of CAs
 Chris Jones
 Central Lake Ontario Conservation Authority

The Evolution of Water Management in Conservation Authorities
 Mark Peacock
 Lower Thames Valley Conservation Authority

The Succession of Science, Policy and Socio-Economic Drivers to Watershed Management
 Bob Morris
 Credit Valley Conservation

Innovations in Tile Drainage: Lessons from a Huron County Demonstration Farm

[Panel]
 Innovations in controlled drainage design may be the key to improving rural water quality. While controlled drainage can work on flat fields in Ontario, it hasn't yet been installed or studied on steeper slopes. This panel session will review the installation and findings of three innovative systems installed on a 60 acre demonstration farm near Clinton, ON.

Panel Moderator
 Melisa Luymes
 Headlands Ag-Enviro

Matt Williams
 Williams Drainage Incorporated

Mari Veliz
 Ausable Bayfield Conservation Authority

Rick Kootstra
 Huron County Soil and Crop Improvement Association

No Session Taking Place

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TUESDAY LUNCHEON PROGRAM

LATORNELL LEADERSHIP AWARD CEREMONY



The Latornell Conservation Symposium honors individuals who have demonstrated outstanding contributions to the field of conservation. They are recognized for their innovation, leadership and dedication to the conservation field. Either through their personal activities and/or leadership, they have gone beyond the call of duty or responsibility to an employer, client, or their community.

For further information on our 2019 award recipients please see the special Latornell Leadership Awards Program which will be available at the awards luncheon.



DID YOU KNOW THE LATORNELL LEADERSHIP AWARDS ARE HANDMADE BY A NIAGARA SCULPTOR AND ARTIST?

Floyd Elzinga
Canadian Artist Creating Sculptures

Rotten stumps, broken branches, invasive species, ravaged trees as well as polar opposites and dysfunctional objects; these are the things that excite Floyd Elzinga. He has made a career out of highlighting and glorifying these through three dimensional sculpture, relief work and environmental installations for over 15 years. Current themes in his work focus on broken landscapes, portraits of trees and the aggressive nature of seeds.

Floyd received a Bachelor of Fine Arts from the Nova Scotia College of Art & Design in Halifax, NS. He was initially drawn to steel, due to its malleable, plastic and forgiving nature, and he continues to utilize its range of colours as well as the way light plays off the surface. He has been exploring traditional metal working techniques to create textures and depth the same way a painter would use a paintbrush.

He currently lives next to his studio (Artifice Inc.) in Beamsville nestled on the Niagara Escarpment. You can see Floyd at the One of a Kind show at the Enercare Centre November 21st to December 1st. He is also hosting his Christmas Open Studio on Saturday December 7th at his studio in Beamsville. View some of Floyd's artwork on his website www.floydelzinga.com.

MASTER OF CEREMONIES AND AWARD RECIPIENTS

MASTER OF CEREMONIES

Brian Denney, Collingwood ON

Retired Chief Executive Officer, Toronto and Region Conservation Authority (TRCA) and 2018 Leadership Awards Recipient



“Leadership is not about being at the top. True leaders are driven by passion and purpose, causing a ripple effect through their word, actions, and relationships with others to motivate and inspire those around them to cause change for the better.”

Moranne McDonnell, Toronto and Region Conservation

2019 LEADERSHIP AWARD RECIPIENTS



Don Huff, Toronto ON
President, ECO Strategy

Nominated by:
Forests Ontario



Bruce Mackenzie, Grimsby ON

Retired, Director, Conservation Areas Operating and Customer Services, Hamilton Conservation Authority

Nominated by:
Hamilton Conservation Authority



John Parrish (deceased) Erin ON
(The River Doctor)
Principal,
Matrix Solutions Inc./PARISH Geomorphic

Nominated by:
Southern Ontario Stream Monitoring and
Research Team



Mike Puddister, Guelph ON
Retired, Deputy CAO and Director, Watershed
Transformation, Credit Valley Conservation

Nominated by:
Credit Valley Conservation

DAY ONE

2:00 PM – 3:15 PM

Watershed Management

T2A ROOM 2

Aquatic Habitat, Water Quality Monitoring and Water Security – What Does the Data Tell Us?

Watershed scale aquatic monitoring, long-term water quality monitoring in Ontario and source water collaboration between First Nations, municipalities and conservation authorities. Join this session to find out what the information tells us and what part collaboration plays.

Advancements in Design of Watershed Scale Monitoring of Aquatic Habitat

[Les Standfield](#)
EcoHealth Solutions

Mining the Value from Our Long-Term Water Quality Monitoring Network in Ontario

[Georgina Kaltenecker](#)
Ministry of the Environment, Conservation and Parks

Collaborative Source Water Protection between First Nations, Municipalities, and Conservation Authorities for Local Water Security

[Natalya Garrod](#)
University of Guelph

Soils, Soil Health and Nutrient Management

T2B ROOM 7

What's New in Academic Soil Health Research?

From on-farm policies to online nutrient capture technologies, this session will highlight some of the latest academic research surrounding the preservation of our soil and water resources.

Challenges of Phosphorus Loss Management from Agriculture

[John FitzGibbon](#)
University of Guelph

Power in Policy: Measuring Farmland Loss in Ontario and Testing the Strength of the Greenbelt Act

[Rachel Singer and Xiaoyuan Wan](#)
University of Guelph

Greenhouse Tomato Plant Roots/ Carboxymethyl Cellulose Method for the Efficient Removal and Recovery of Phosphate from Agricultural Waste Water

[David Ure](#)
University of Windsor

Communications, Marketing and Outreach

T2C ROOM 8

Connecting People to Nature

Explore how some organizations are using environmental education to connect students, youth, seniors and newcomers to nature through the development of innovative programming.

An Innovative Stormwater Education and Community Monitoring Program

[Mike Hannah](#)
EnviroPod

Sustainability Self-Guided Tour: A Climate Action Awareness Initiative

[Lorena Canales and Judeen Meikle](#)
Ryerson University
[@LORENACANALESM](#)

Preparing for Change – Redefining Outreach and Education for a Changing Demographic

[Heidi Breen and Judy Coultres-MacLeod](#)
The Regional Municipality of York
[@YorkRegionGovt](#)

“Rivers and mountains may change; human nature, never.”

Chinese proverb

Natural Heritage and Stewardship

T2D ROOM 1

Protecting Land and Water: From Regional to Grass Roots Efforts

This session will explore approaches to protecting and assessing the state of land and water resources at various scales from regional analyses and benchmark creation to community-based grass roots efforts.

The State of Large Parks in Ontario's Golden Horseshoe

Deborah Martin Downs
Credit Valley Conservation
and Jenn Court
Green Infrastructure
Ontario Coalition
[@GreenInfraON](#)

Introducing Raresites: A Community-Based Watershed Approach to Protecting Lands and Water in Waterloo Region-Wellington

Robert Orland
Orland Conservation
and Stephanie Sobek-Swant
RARE Charitable Research Reserve

Change Management

T2E ROOM 9

Changes to the Conservation Authorities Act

This session will provide an update on changes to the Conservation Authorities Act and implications for conservation authorities, municipalities and other partners.

Key Changes to the Conservation Authorities Act and Moving Forward

Bonnie Fox
Conservation Ontario

The Municipal Government/CA MOU: Partnerships that Work

Cathie Brown
Association of Municipalities of Ontario

Workshops and Field Tours

T2F/T3F LOBBY

Forest Therapy – Take a Walk in the Woods

[Field Trip 2 PM-5:15 PM]

This field trip provides the background introduction of Forest Therapy Walks and will allow participants to get out of their heads and into their senses by being immersed in a natural setting.

Walk Group Leaders

Stana Luxford Oddie
Catarauqui Region
Conservation Authority
and Kristie Virgoe
Kawartha Conservation



We would like to acknowledge Forests Ontario as the Forest Therapy – Take a Walk in the Woods Tour sponsor.

Workshops and Field Tours

T2G/T3G LOBBY

Endangered Species Site Walk

[Field Tour 2 PM-5:15 PM]

Early successional pine forests were the result of naturally occurring and intentionally set fires by First Nations people. These processes have been replaced by human development, forest management in the absence of fire and a new range of species that has changed the face of southern Ontario's ecosystems significantly. This walk will provide first hand examples of these changes and endangered species in these areas.

Peter Burke and Laura Williamson
Savanta Inc.

“Like the resource it seeks to protect, wildlife conservation must be dynamic, changing as conditions change, seeking always to become more effective.”

Rachel Carson

DAY ONE

Watershed Management

T3A ROOM 2

Exploring an Indigenous Relationship with Water

[Workshop]

Participants in this workshop will be introduced to Indigenous ways of knowing and Indigenous relationships to water. An exploration of water, its significance, ways you can help and why this is important will connect participants into post workshops that are connected to waterwalking, water conservation and water protection.

Kim Wheatley

Anishinaabe Cultural Consultant

Soils, Soil Health and Nutrient Management

T3B ROOM 7

Restoring Healthy Soils

When not done properly, urban and agricultural development can lead to significant soil degradation and loss. Join three practitioners from the field to learn more about how to preserve and rebuild healthy soils in any landscape!

Regenerative Soil Solutions and Increasing Awareness for the Soil Sponge

Jaime Douglass
Jenkins Soil

The Regeneration Revolution - Building Soil Health, Sequestering Carbon and Increasing Biodiversity through Regenerative Farming

Thorsten Arnold
Ecological Farmers Association of Ontario

Science Meets Art: Improving the State of Erosion and Sediment Control Design

Bill Trenouth
AECOM
[@BillTrenouth](#)

Communications, Marketing and Outreach

T3C ROOM 8

Taking Science to the People

Learn about effective community engagement and citizen science projects, including tools for implementation such as smartphone technologies.

Guiding Urban Communities in Climbing the Ladder of Engagement in Environmental Conservation

Kate Goodale
Toronto and Region Conservation Authority

Increasing Conservation Authority Capacity through Citizen Science: A Citizen Science Nearshore Monitoring Project Case Study

Debbie Balika
Kawartha Conservation
[@kawarthaconserv](#)

When and How Are Smartphones Helpful for Environmental Monitoring

Mark Andrachuk
Wilton Consulting Group
[@MarkAndrachuk](#)

Improving Farm Stewardship Programs through Understanding Farmers

Melisa Luymes
Headlands Ag-Enviro

3:45 PM – 5:15 PM

Natural Heritage and Stewardship

T3D ROOM 1

Moving from Individual to Institutional Stewardship: Cases from across the Province

This session will present multi-scalar approaches to fostering environmental stewardship behaviours in individuals and institutions from local incentive programs to mobilising key actors and supporting regional governance structures.

Building Community Through Local First Nations Fisheries on the Great Lakes

Chirag Patney, Sheri Longboat, and Nicolas Brunet
University of Guelph
 @SheriLongboat

Bird-Friendly Certified Hay Program - 5 Years of Implementation

Jordan Graham
Credit Valley Conservation

Strategies for Success for Conservation – Case Study

Tunde Otto
Willow Park Ecology Centre

Change Management

T3E ROOM 9

Digital Transformations – Building Capacity and Efficiency

Digital transformations are influencing how conservation organizations engage clients, work with partners, and leverage the environmental data that underpins their programs and projects. Join this session to hear how technology is improving the productivity, efficiency, and quality of conservation work.

Digital Transformation: A Conservation Halton Journey

Hassaan Basit
Conservation Halton
 and Kaushik Chaudhuri
Tata Consultancy Services Canada Inc.

Database Creation and Management with Limited Resources

Lesley McDonnell
Hamilton Conservation Authority

Restoring Shorelines with the Help of Technology

Chloe Lajoie
Watersheds Canada
 @WatershedsCAN

Workshops and Field Tours

T2F/T3F LOBBY

Forest Therapy – Take a Walk in the Woods (Continued)

[Field Trip 2 PM-5:15 PM]

This field trip provides the background introduction of Forest Therapy Walks and will allow participants to get out of their heads and into their senses by being immersed in a natural setting.

Workshops and Field Tours

T2G/T3G LOBBY

Endangered Species Site Walk (Continued)

[Field Tour 2 PM-5:15 PM]

Early successional pine forests were the result of naturally occurring and intentionally set fires by First Nations people. These processes have been replaced by human development, forest management in the absence of fire and a new range of species that has changed the face of southern Ontario's ecosystems significantly. This walk will provide first hand examples of these changes and endangered species in these areas.

“I alone cannot change the world, but I can cast a stone across the waters to create many ripples.”

Mother Teresa

TUESDAY EVENING EVENTS SUMMARY

5:30 PM – 7:00 PM

Exhibitors' Networking Reception

Location:

Exhibitors' Galleries A & B

7:00 PM – 8:30 PM

Harvest Banquet Dinner

Location: Conservation Dome

Banquet Dinner Events include:

- Harvest Dinner
- A.D. Latornell Award of Merit
- Ticket Sales - for the VQA Wine and Craft Beer Draw
- Draw - VQA Wine and Craft Beer Draw Ticket Draw

EXHIBITORS' NETWORKING RECEPTION 5:30 PM - 7:00 PM

Come out and enjoy our celebrated annual Exhibitors' Networking Reception. It takes place in Galleries A and B on the lower level of the Nottawasaga Inn & Conference Centre on Tuesday, from 5:30 PM - 7:00 PM.

SCALES NATURE PARK @ LATORNELL EXHIBIT GALLERY B 5:30 PM - 7:00 PM

Each year an Ontario facility provides us with a "show and tell" display of animals of various species. This is sure to provide a fun and interactive way of showcasing animals in an educational and safe manner.

Their profile can be found on page 11.

A.D. LATORNELL AWARD OF MERIT 8:15 PM

Each year, the Ontario Chapter of the Soil and Water Conservation Society (SWCS) presents the A. D. Latornell Award of Merit. Art Latornell was involved in virtually every aspect of resources management in Ontario during his lifetime and was a role model for many beginning a career in conservation. These recipients exemplify Art and the SWCS by promoting and practicing an ethic which fosters the science and art of soil, water, and related natural resource management to achieve sustainability.

The award is available to students at the diploma, bachelor, or master program level. The winner of the Award receives a one year membership to SWCS, a cash award of \$600 and a one day registration to the A. D. Latornell Conservation Symposium.

This Year's Award Recipient Is:

Madeleine Arsenal, Masters of Science in Capacity Development and Extension, University of Guelph

Madeleine Arsenal is this year's winner of the Soil and Water Society Ontario's Arthur D. Latornell Award of Merit. Madeleine is in her first year of an M.Sc. In Capacity Development and Extension at the University of Guelph. She will study how soil literacy plays a role in farmers' management decisions that improve soil health and lead to climate-smart farming.

In addition to the award that she will use to support her studies, Madeleine also receives a one year membership to SWCS.



“Pessimists are usually right and optimists are usually wrong but all the great changes have been accomplished by optimists.”

Thomas Friedman

VQA WINE DRAW AND ONTARIO CRAFT BEER DRAW 8:20 PM - 8:30 PM

Tickets: A limited number of tickets will be available for a limited time at the Harvest Banquet. Tickets will be \$10 each or 3 for \$20. The draw will take place at 8:30 PM in the Conservation Dome, and you must be present to win.

Two Winners: Your purchased card gives you a chance to win either a selection of fine Ontario wine or a selection of Ontario craft beer.



WE'RE PROUD TO BE A LONG-TERM PARTNER OF THE LATORNELL CONSERVATION SYMPOSIUM

We share a vision that conservation is about taking ownership of our collective responsibility to take action. **Wetland and habitat loss aren't just problems; they're our problems to solve.**

Did you know that DUC works in habitat restoration and securement, grassland and fishery habitat compensation, and research on policy, wetlands and waterfowl? We are seeking collaborators to advance our conservation management objectives.

THINK WE CAN WORK TOGETHER? CONTACT US TODAY.

1-888-402-4444

du_barrie@ducks.ca



CHOOSE YOUR OWN ADVENTURE - ROUND 1

APPROXIMATE 8:30 PM START TIME

Following the banquet on Tuesday evening delegates have a choice of activities:

» **Latornell Whiskies From Around the World - Information and Tasting Session with Master Trainer Mike McLean**

(Location: Room 41)

Learn about the basics of whiskey and the craftsmanship of some of the finest whiskey distilleries in the world. We will then pair food with each of several countries discussed.

Hear some interesting stories from the world of whiskey. Al Capone is considered to be one of America's most notorious gangsters, having overseen the US's largest bootlegging operation in Chicago during the Prohibition. Learn about the underground smuggling and public enemy number 1: Al Capone.

Pre-registration is required. Don't delay in getting your tickets for this session as we only have a limited number available. Cost is \$25 plus tax. Tickets are also available onsite at the Registration Desk until 3:30 PM Tuesday November 19th.

This event is sponsored in part by Hutchinson Environmental Sciences Ltd.



» **Creative Workshop: Macramé Plant Hanger**

(Location: Room 19)

Learn a combination of macramé knots to create a beautiful macramé plant hanger in this beginner workshop. Includes a 100% cotton rope, wooden ring and a mini clay pot.

Pre-registration is required. Cost is \$25 plus tax. Tickets are also available onsite at the Registration Desk until 3:30 PM Tuesday November 19th. Limited number of participants, so reserve your spot today.



CHOOSE YOUR OWN ADVENTURE - ROUND 1

» **Continue to Mix and Mingle with Exhibitors until 10:00 PM**

(Location: Exhibitors' Galleries A and B)

» **Jungle Quest Team Annual Mini-Golf Tournament**

(Location: The Jungle Quest Mini Golf course is located beside the Sports & Leisure Dome desk one level down from the Conservation Dome)

Journey through our action-packed 18 hole, par 36, Jungle Quest mini-putt adventure. As you navigate along a winding fun-filled expedition you will encounter treacherous lush terrain, as well as native wildlife hiding around every corner.



Players will be organized into teams of 4 – either come as a team or we can place you in a foursome when you arrive at the course. All players must complete the course or the entire team will forfeit. As per standard golf rules, the team with the lowest combined score wins.

» **The Latornell After Party (The LAP!) 8:30 PM - 1:00 AM**

(Location: Starlite Lounge: tucked away on the 3rd floor, past the gift shop and up the stairs, or access from the 3rd level of the Inn)

On Tuesday after dinner, make your way over to The LAP! The networking and late-night socializing will take place in the Starlite Lounge. The bar will be open until 1:00 AM for your fun and amusement. See you at The LAP!



DAY TWO

Watershed Management

W1A ROOM 2

Fish Habitat - Restoration and Policy

Fish habitat management and restoration can be a challenge. This session will examine alternatives to restoration using case studies as well as provide updates on recently listed Federal aquatic species at risk, tools for project screening and Federal funding programs that support aquatic species at risk conservation and recovery.

Rocky Ramps - Managing Socio-Political Expectations and Change to Provide Alternatives to Dams

Matthew McCombs
Matrix Solutions Inc.
and **Michael Yee**
Rideau Valley Conservation Authority

Advancing Conservation and Recovery of Fishes and Freshwater Mussels in the Lower Great Lakes Area

Shelly Dunn and Shawn Staton
Fisheries and Oceans Canada
[@FishOceansCAN](#)

Soils, Soil Health and Nutrient Management

W1B ROOM 7

High Tech Dirt: Tools for Soil Health & Nutrient Management

New tools, guidelines and approaches have been developed to reduce erosion, increase soil health and mitigate unintended nutrient transport. Join us to learn about a few!

The Next Generation Nutrient Management Planning Software

Kevin McKague
Ontario Ministry of Agriculture, Food and Rural Affairs

Harnessing Big Data Analytics to Improve Watershed Protection

Mark Fisher
Council of Great Lakes Region and Chris Hilkene
Pollution Probe

Nutrient Recommendations from the Great Lakes and St. Lawrence Collaborative

Sarah Rang
Blue Water Consulting

Green Technologies

W1C ROOM 8

Helpful or Over-Hyped? Stormwater Management in the 'Internet of Things' Era

Join us as we showcase projects which utilize actively-controlled, internet-enabled stormwater management technologies, and as we explore whether these emerging SWM solutions live up to the hype!

Stormwater Smartgrids: Distributed Adaptation to Flood and Drought using AI & IoT Asset Managed Infrastructure on Private Property

Kevin Mercer
RainGrid Inc.
[@RainGridInc](#)

Distributed Adaptation to Flood and Drought using AI & IoT Asset Managed Infrastructure on Private Property

Mark Palmer
Greenland International Consulting Engineers

Stewardship and Decision Making – Will the 'Internet of Things' Deliver for Municipalities?

Paul Gallaway
GHD

Did You Know? We Have a Grant Program

Our annual "Dream Auction" supports our bursary program providing financial aid to people who would not otherwise be able to attend this annual conference. All Dream Auction items are generously donated by individuals and organizations with a passion for conservation and all proceeds are donated to the Latornell Grant Fund.

This program continues to be a tremendous success. Since 2002, a total of 331 people have received a grant.

See page 9 to see this year's list of grant recipients and page 38 for more information on the Dream Auction.

Natural Heritage and Stewardship

W1D ROOM 1

Applications and Advances in eDNA (Part 1)

[Workshop]

Join us for this half-day workshop which builds on last year's introductory session on environmental DNA to explore its practical uses, applications and challenges to implementation.

Workshop Moderator

Rob Hanner
University of Guelph

Environmental DNA Methods for Detecting Species at Risk Fish

Dr. Scott Tarof
Azimuth Environmental Consulting, Inc.

Monitoring the Ecological Condition of Urban/ Agricultural Watersheds Using eDNA, a Case Study in the Laurel Creek Subwatershed

Steve Hill and Christina Myrdal
Dougan and Associates

STREAM: Sequencing The Rivers for Environmental Assessment and Monitoring

Chloe Robinson
University of Guelph

Municipal and Environmental Relationships

W1E ROOM 9

Talk Dirt to Me: The Latest Tools, Technology and BMPs for Preventing, Tracking and Assessing Erosion Risk

Learn how and where UAV surveying can be used in place of traditional land surveying for tracking erosion and other environmental programs; how real-time stream gauges are being combined with GIS and other technology to determine where to dispatch inspectors following storm events to track erosion damage threatening municipal infrastructure and other public assets; and construction site turbidity monitoring best practices and targets in the new ESC Guide for Urban Construction.

UAV Surveying

Moranne McDonnell, Cathy Eden, and Cody Purchase
Toronto and Region Conservation Authority

Flood Risk Analysis Network

Matt Johnston and David Gingerich
Toronto and Region Conservation Authority

Turbidity Monitoring on Construction Projects, Erosion Risk Assessment Tool

Lisa Rocha
Toronto and Region Conservation Authority
[@STEPLivingCity](#)

Workshops and Field Tours

W1F ROOM 11

The Psychology of Spaces

[Workshop]

Over the past six years, Ascentia has been experimenting with a new way to engage communities to identify the invisible, unspoken and hidden needs, and then redesign outdoor spaces, through a co-creation process. Ascentia plays with a range of approaches including conscious design and social innovation to challenge current thinking about the purpose and role of public spaces, especially parks, as well as how to both design the space and engage the public. By calling out for different perspectives from the community, a new framework emerges that provides a fresh story and missing experiences along with guidelines and considerations for designing public spaces. Innovations in stormwater optimization and climate change are also realized through this approach. The Town of Newmarket has been the site of a number of co-creation projects through the iWonder Framework.

Mitch Harrow
Ascentia

Hilary Van Welter
Ascentia

Workshops and Field Tours

W1G-W4G ROOM 18

Aggregate Resource Planning and Rehabilitation

[Workshop and Tour 8:30 AM-4:45 PM]

The morning session presentations will provide attendees with: an introduction to the aggregate industry, extraction operations and the aggregate planning process; an overview of current planning and regulatory issues in the aggregate industry; and a presentation on the completed comprehensive study on aggregate site rehabilitation. This will include a presentation on biodiversity offsetting related to aggregate proposals which introduces the afternoon field trip to Duntroon Quarry where a forest biodiversity offsetting project is underway. The afternoon session will consist of a field tour to Duntroon Quarry to view an active quarry operation as well as visit an offsetting program involving unique and aggressive techniques to create healthy and diverse woodlands. The tour will visit a nursery where plant material for the project is sourced and the opportunity for scenic views in the Niagara Escarpment area of Clearview Township.

See 10:15 AM - 11:45 AM time slot for list of speakers

DAY TWO

Watershed Management

W2A ROOM 2

Changes Over Time - Watershed Plans and Floodplains

A History of Ontario Floods Reveals Huge Changes. This presentation will highlight the process taken to update watershed plans in the Central Lake Ontario Watershed as well as review the results of a study that considered the changes in floodplain characterises from the traditional spring freshet events to the now more frequent intense summer based events in Ontario.

A History of Ontario Floods Reveals Huge Changes

Trevor Dickinson
University of Guelph

Updated CLOCA Watershed Plans

Jackie Scott and Jamie Davidson
Central Lake Ontario Conservation Authority

Soils, Soil Health and Nutrient Management

W2B ROOM 7

Civil Defense...for Soil! Citizen Soil Health Science

Citizen science is great for data collection and program deployment across broad areas, making it perfect for agricultural landscapes. This session will present three new tools for community engagement and program implementation.

Citizen Scientists Explore the Roots of Soil Health

Ruth Knight
Soil Health Coalition
and **Mark Eastman**
Credit Valley Conservation
[@SoilRegenRuth](#)

Using Drone and Geomatics Technology to Better Communicate Ecosystem Health

Amanda Hutter
University of Guelph
and **Martin Millen**
Matachewan First Nation

Have Your Cake and Eat It Too: How a Focus on Community-Rooted Social Networks Simultaneously Communicates and Drives Stewardship Behaviour and Outcomes

Tori Waugh
The Ontario Soil Network

Green Technologies

W2C ROOM 8

Data-Driven: Assessing the Performance of Green Stormwater Infrastructure

Ever wonder what's under the hood when it comes to green stormwater infrastructure? This session will help you get a better understanding of GSI performance and the factors that influence it.

Performance and Cost Effectiveness of Retrofitted Roadside Biofilter Swales in Brampton, Ontario

Dean Young
Toronto and Region Conservation Authority

Dual-Benefit, Unique Approach for Lake Protection – Harvesting Stormwater Restores Shields Lake

Olivia Sparrow
Emmons & Olivier Resources Canada Inc.
and **Jay Michels**
Emmons & Olivier Resources Inc.
[@LivMSparrow](#)

Field Assessment of Performance of Bioretention Systems for Reducing Nutrient Loading in Urban Storm Water

Jaeleah Goor
University of Western Ontario

“Change means that what was before wasn't perfect. People want things to be better.”

Esther Dyson

10:15 AM – 11:45 AM

Natural Heritage and Stewardship

W2D ROOM 1

Application and Advances in eDNA (Part 2)

[Workshop]

Join us for this half-day workshop which builds on last year's introductory session on environmental DNA to explore its practical uses, applications and challenges to implementation.

Workshop Moderator

Rob Hanner
University of Guelph

What If... How Else... Integrating Environmental DNA into Applied Ecology

Jen Petruniak
Dillon Consulting

A 'Molecular Canary' in Facilitating Management of Ecosystem Health

Mario Thomas
Precision Biomonitoring
[@eDNAmonitoring](#)

The Influence of Study Variables on eDNA Survey Results: Redside Dace in Irvine Creek, Ontario, Canada

Jay Cashubec
AECOM
[@CashubecJay](#)

Municipal and Environmental Relationships

W2E ROOM 9

Stormwater Management 2020: It's Not Black and White - It's More Grey and Green

This session presents the case for municipalities to proactively plan for a sustainably funded stormwater program, how private property stormwater controls are being monitored and examined in conjunction with traditional wastewater and storm drainage systems to help inform future municipal program decisions, and how a new Life Cycle Costing Tool can be used to compare green against grey infrastructure.

Planning for a Sustainably Funded Stormwater Program

Pippy Warburton
AECOM

Municipal, Conservation Authority, and Private Partnerships in Advanced Adaptive Management

Nicholas Keast
Greenland International Consulting Engineers

Building the Business Case for Green Stormwater Infrastructure with STEP's LID Life Cycle Costing Tool Update

Kyle Vander Linden and Kyle Menken
Credit Valley Conservation

Workshops and Field Tours

W2F ROOM N/A

No Session Taking Place

Intentionally left blank

Workshops and Field Tours

W1G-W4G ROOM 18

Aggregate Resource Planning and Rehabilitation (Continued)

[Workshop and Tour 8:30 AM-4:45 PM]

See 8:30 AM - 9:45 AM time slot for session description

W1G Workshop

Sharon Armstrong and Ashlee Zelek
Ontario Stone Sand & Gravel Association

W2G Workshop

Anne Guiot and Michael Wynia
Skelton, Brumwell and Associates

W3G/W4G Tour

Ken Lucyshyn
Walker Industries

Kevin Elwood

Clearview Nursery

WEDNESDAY LUNCHEON PROGRAM

KEYNOTE: DAVE MESLIN, POLITICAL ENTREPRENEUR & ENGAGEMENT SPECIALIST

Using non-traditional methods and creative tactics, Dave Meslin spent twenty years as a social and political entrepreneur leaving a trail of non-profit start-ups, campaign victories, viral videos, new magazines, and public space interventions in his path. An urbanist, community organizer, author, and trainer, Meslin inspires us to invert the traditional pyramid of hierarchy by creating meaningful opportunities to engage our employees, our members, and our students. His thesis is simple: We're stronger and smarter when we're all involved. Transforming top-down leadership into bottom-up collaboration is the true challenge of the 21st century.



“If you don't like something, change it. If you can't change it, change your attitude.”

Maya Angelou

WANT TO GROW AS A LEADER?

The Young Conservation Professionals (YCP) Leadership Program is a year-long personal and professional learning experience serving the conservation and environmental sector in Ontario since 2005. The purpose of the YCP Leadership Program is to build capacity in the sector by developing the next generation of leaders. The YCP program includes three residential retreats, six skill-based workshops, and program graduation at the A. D. Latornell Conservation Symposium.

Apply today at trca.ca/ycp

Young Conservation Professionals

 Toronto and Region Conservation Authority

GREENING INFORMATION

PLANTING TREES ON BEHALF OF SYMPOSIUM PARTICIPANTS BENEFITS THE ENVIRONMENT

Over 4,000 trees will be planted in the Nottawasaga Valley watershed to help offset the emissions created by participants travelling to the Latornell Conservation Symposium. This unique partnership between Forests Ontario, the Nottawasaga Foundation, the Nottawasaga Valley Conservation Authority, and the Symposium has planted over 56,000 trees since 2007.

In addition to offsetting emissions, planting trees increases forest cover, improves water quality, moderates the effects of flooding and drought, prevents erosion and provides habitat for wildlife. Trees are also an important natural economic resource. The Symposium is providing a \$3,000 grant behalf of our speakers and the Nottawasaga Foundation provides an additional \$5,000 to Forests Ontario who works with the Nottawasaga Valley Conservation Authority to plant the trees.



LATORNELL GREEN BITES – WALKING THE TALK

Do You Know What Else We Do to Keep Things Green?

- Provide an online carpooling tool
- Symposium is powered by 100% clean renewable energy through Bullfrog Power
- Our maple syrup thank you gifts come from local trees
- We provide filtered water in glasses instead of plastic bottles
- Newsletters and announcements are sent out digitally via email and social media
- Environmentally Conscious Catering - much of the menu is sourced locally
- Reusable tableware only
- Eco-Friendly Swag – that is BYOB (bring your own bag); we have eliminated the registration swag
- Unused bags of carrots, supplied by Holland Marsh, are donated to the Guelph Food Bank by R.J Burnside & Associates

How You Can Help at Latornell and Other Conferences You Attend

- We do not want to over-cater. Please indicate the meals you are attending during the registration process
- Indicate if you are vegetarian or vegan, allowing the venue to keep an overabundance of meat off the menu
- Carpool
- Bring your own reusable drink container (for hot or cold beverages)
- Scan or take a snapshot of business cards from exhibitors and delegates
- Skip maid service for a day for your hotel room
- Consider taking notes using a tablet or use the notes pages in your program

DAY TWO

Watershed Management

W3A ROOM 1

Web-Based Data Access - Changing the Way We Manage Water Resources (Part 1)

This is a 2 part session that will review the Oak Ridges Groundwater Management Program and how the data from this program is being made accessible through an interactive website where mapping, graphing, data downloads, cross-sections, etc., are all made readily available to water managers.

An Overview of the Oak Ridges Moraine Groundwater Program – Comprehensive Water Management for Ontario

Steve Holysh

Oak Ridges Moraine Groundwater Program

Rick Gerber

Oak Ridges Moraine Groundwater Program

Mason Marchildon

Oak Ridges Moraine Groundwater Program

Soils, Soil Health and Nutrient Management

W3B ROOM 7

Adapting The '4R' Nutrient Stewardship Approach for Ontario's Farmers

[Panel]

Tracing nutrients from the edge of the field to Lake Erie only tells half the story. This panel session will detail how the nutrient management industry has stepped up to ensure that what is applied to our land is done in a responsible manner.

Panel Moderator

Nicole Rabe

Ontario Ministry of Agriculture, Food and Rural Affairs

[@RabeDigitalFarm](#)

Dale Cowan

Ontario Certified Crop Advisor Association

[@SCSAgronomy](#)

Green Technologies

W3C ROOM 8

Put Your Road on a Low-Salt Diet!

Road salt application is a major issue contributing to water quality impairment, but it also helps to safeguard human life. Can viable salt alternatives be found, and a better balance struck?

Non Toxic and Non Corrosive Dust Suppression and Ice Melts

Rob Irvine

Advanced Environmental Solutions

The Art of Balance: Managing Salt Using Linear Green Infrastructure in Environmentally Sensitive Areas

Bill Trenouth

AECOM

[@BillTrenouth](#)

“The world as we have created it is a process of our thinking. It cannot be changed without changing our thinking.”

Albert Einstein

1:30 PM – 2:45 PM

Natural Heritage and Stewardship

W3D ROOM 2

New Tools for Natural Heritage Conservation

Join us in this session as we explore new tools and methodologies to better understand, analyze and manage our natural heritage resources in Ontario. Floristic Quality Analysis, Climate Change Vulnerability Assessment and a Wetland Assessment Tool will all be discussed.

Floristic Quality Analysis: An Under-appreciated Tool for Assessment and Monitoring in Ontario

*Sarah Mainguy
North-South Environmental Inc.*

Thinking Differently About Wetland Assessment in Ontario

*James Leslie
Savanta Inc.*

Step Towards Adapting to Climate Change: Natural Systems Vulnerability Assessment & Applications

*Namrata Shrestha
Toronto and Region Conservation Authority*

Municipal and Environmental Relationships

W3E ROOM 9

Stormwater Management 2020: It's Not Black and White – It's More Grey and Green (Continued)

This session highlights new management approaches to storm and wastewater management. Join us to learn how one city obtained ECA approval on a subwatershed-wide scale for its existing and preapproved stormwater works, and how another city is using a community-based compliance management framework for its onsite rural septic system re-inspection program. In this session we'll also learn about using specific vegetation in stormwater management ponds used to optimize year-round treatment efficiencies.

*Cameron Curran
University of Guelph*

*Shawna Chambers
City of London*

*Kevin Stevens
Wilfrid Laurier University
and Luke Parsons
C.F. Crozier & Associates
Consulting Engineers
@CrozierEngineer*

Workshops and Field Tours

W3F/W4F LOBBY

Forest Therapy Walk: Indigenous Focus

[Field Trip 1:30 PM-4:45 PM]

Carolynne Crawley, Forest Therapy Guide, Mentor, and Trainer for the Association of Nature and Forest Therapy Guides and Programs will start the session with a talking circle that will focus upon breaking down colonial ways of thinking and interacting that separate people from their natural surroundings. Afterwards, Carolynne will guide a Forest Therapy walk from an Indigenous perspective to support participants to slow down and connect with all beings by building reciprocal relationships with the land.

Note: Please dress appropriately for the weather by wearing layers as it is a slow moving walk.

Walk Group Leader

*Carolynne Crawley
Msit Nokmaq
Certified ANFT forest therapy guide, mentor and trainer*



We would like to acknowledge Forests Ontario as the Forest Therapy Walk: Indigenous Focus Tour sponsor.

Workshops and Field Tours

W1G-W4G LOBBY

Aggregate Resource Planning and Rehabilitation (Continued)

[Workshop and Tour 8:30 AM-4:45 PM]

See 8:30 AM - 9:45 AM time slot for session description

See 10:15 AM - 11:45 AM time slot for list of speakers

DAY TWO

Watershed Management

W4A ROOM 9

Web-Based Data Access - Changing the Way We Manage Water Resources (Part 2)

This is a 2 part session that will review the Oak Ridges Groundwater Management Program and how the data from this program is being made accessible through an interactive website where mapping, graphing, data downloads, cross-sections, etc., are all made readily available to water managers.

The Future of On-Line Water Management - Moving Forward

Steve Holysh

Oak Ridges Moraine Groundwater Program

Rick Gerber

Oak Ridges Moraine Groundwater Program

Mason Marchildon

Oak Ridges Moraine Groundwater Program

Steve Davies

Cole Engineering Group Ltd.

Blythe Reiha

The Regional Municipality of York

Soils, Soil Health and Nutrient Management

W4B ROOM 7

Let's Hear it from Farmers

[Panel]

Hosted by OSCIA, this panel of leading-edge farmers will share their experiences and lessons learned as it relates to the implementation of emerging conservation and nutrient programs and practices. Come learn what has worked and how we improve program implementation going forward!

Panel Moderator

Angela Straathof

Ontario Soil and Crop Improvement Association

Kelsey Banks

Laurel Lea Farms

General Commodity: Grains and Pumpkins

[@KelseyBanks](#)

Dave Ferguson

Walnut Acres Farms Ltd.

General Commodity: Grains and Oil Seeds, Pasture, and Woodlot

Claire Ross

Ross Enterprises

General Commodities: Free Range Turkeys, Chicken Eggs, Grains

Andy van Niekerk

Conforza Farms

General Commodity: Hogs and Cash Crops

Green Technologies

W4C ROOM 8

Tools and Technologies for Green Infrastructure Assessment, Standardization and Management

This session will highlight both tools and standards developed to assist professionals working at various scales: from the boots on the ground to regional government scales. Learn how data is collected, organized, and synthesized to inform standards and make decisions to address 21st century stormwater challenges.

Going Against the Flow through Streamlining Data Collection Methods

Rhonneke Van Riezen

AECOM

London's LID Strategy - from Pilot Projects to Design Standards

Adrienne Sones

City of London

Exploring York Regions Green Infrastructure Asset Management Plan

Kyle Heeley

The Regional Municipality of York

3:15 PM – 4:45 PM

Natural Heritage and Stewardship

W4D ROOM 1

Making the Business Case for Ecological Restoration: Assessing the ROI from Three Local Case Studies

What are the economic impacts of restoration work? This session details a project to evaluate the business case for three local ecological restoration projects undertaken by TRCA, Hamilton CA and Kawartha Conservation. The project considered different aspects of restoration, including flood avoidance and recreation opportunities to come up with ROIs and consider how ROIs can help to sell a restoration project.

Tom Bowers
Greenbelt Foundation

Mark Anielski
Anielski Inc.

Scott Peck
Hamilton Conservation Authority

Debbie Balika
Kawartha Conservation
[@kawarthaconserv](#)

Clifton Coppolino
Toronto and Region Conservation Authority

Municipal and Environmental Relationships

W4E ROOM 2

Urban Ecosystem Management and Restoration

This session will focus on restoration management in the urban context, from designing landscapes for a 'net gain' of natural heritage features and functions, to effectively managing environmentally significant areas in cities, to best management practices involving invasive species management using manual, mechanical and chemical treatment techniques.

Town of Milton Restoration Framework
Jim Dougan
Dougan & Associates
and Nick Assad
Conservation Halton

Managing Environmentally Significant Areas in Growing Urban Centres
Jen Petruniak
Dillon Consulting

Best Management Practises for Invasive Plant Removal: Lessons from the Field
Robert Canning
Severn Sound Environmental Association

Workshops and Field Tours

W3F/W4F LOBBY

Forest Therapy Walk: Indigenous Focus (Continued)

[Field Trip 1:15 PM-4:45 PM]

Carolynne Crawley, Forest Therapy Guide, Mentor, and Trainer for the Association of Nature and Forest Therapy Guides and Programs will start the session with a talking circle that will focus upon breaking down colonial ways of thinking and interacting that separate people from their natural surroundings. Afterwards, Carolynne will guide a Forest Therapy walk from an Indigenous perspective to support participants to slow down and connect with All Beings by building reciprocal relationships with the land.

Note: Please dress appropriately for the weather wearing layers as it is a slow moving walk.

Workshops and Field Tours

W1G-W4G LOBBY

Aggregate Resource Planning and Rehabilitation (Continued)

[Workshop and Tour 8:30 AM-4:45 PM]

See 8:30 AM - 9:45 AM time slot for session description

See 10:15 AM - 11:45 AM time slot for list of speakers

LATORNELL GALA BANQUET EVENING

Join us for our annual Latornell Gala Evening. The evening includes a student poster display and competition, dream auction, banquet dinner, and a second night of choose your own adventure activities.

STUDENT POSTER DISPLAY AND COMPETITION 5:00 PM - 6:30 PM

The Latornell Conservation Symposium showcases a variety of original research projects which have either been just completed or are underway within our universities and colleges. This is an excellent opportunity for Symposium delegates to see innovation in action and to provide their feedback to student poster participants. A vote is held by delegates and cash awards of \$500, \$300 and \$200 are presented to the top three poster presentations.

This event is sponsored by R.J. Burnside & Associates Limited.



This year, a total of 15 presenters are featured. They include:

NAME	SCHOOL	POSTER PRESENTATION TITLE
Michelle Agagnostou	University of Toronto	Evaluating local community sources of intelligence for tackling wildlife crime in protected areas
Paige Allen	University of Guelph	Adopting sustainable land management practices in agriculture; a farmer's perspective
Lisa Ashton	University of Guelph	Farmer identified climate action interventions in Ontario
Katherine Baird	University of Toronto	Floristic quality assessment for natural areas management in Lake Simcoe watershed
Danielle Hudson	McMaster University	Turtle nesting habitat restoration on Ontario rock barrens: an evaluation of lichen (<i>Cladonia</i> sp.) and moss (<i>Polytrichum</i> sp.) survival immediately following transplantation
Anum Khan	Ryerson University	Capturing the 'unflushables'
Marc-Antoine Larrivee	University of Guelph	Polanyian protective counter-movement: the case of organic producers in Canada
Keiran Lehan	McMaster University	Restoring Functional Overwintering Habitat for Eastern Massasauga Rattlesnakes
Shannon MacDonald	University of Toronto	Modeling forest biomass using LiDAR remote sensing on an urban landscape
Alexandra McClymont	Queen's University	Are water quality guidelines enough to protect lake zooplankton from road salt pollution?
Danielle Mayers	University of Guelph	The Impacts of Non-Legume Cover Crop Use on the Livelihoods of Ontario Farmers
Barry Orr	Ryerson University	Impacts of sewer blockages and the material found in our receiving water
Elisha Persaud	University of Guelph	Groundwater Contamination Risk under Changing Watershed Conditions
Jeffrey Reichheld	University of Guelph	Biodiversity in Canadian Dairy: Uncovering opportunities for meaningful change in the Canadian Dairy Industry's environmental stewardship
Kayla Salive	Wilfrid Laurier University	Assessing threats and mitigation for Scarlet Ammannia (<i>Ammannia robusta</i>) in Southwestern Ontario

DREAM AUCTION 4:30 PM - 8:00 PM

All Dream Auction items are generously donated by individuals and organizations with a passion for conservation. All proceeds to be donated to the Latornell Grant Fund.

The Latornell Conservation Symposium Grant was established in memory of Arthur D. Latornell to provide support for students and active members of the conservation community so that they may attend the annual Latornell Conservation Symposium.

Thank you to everyone who help make this such a success. The “Dream Auction” supports our grant program providing financial aid to people who would not otherwise be able to attend this annual conference. With over \$12,000 raised at last year’s auction, our awards will enable students and/or representatives of smaller environmental non-governmental organizations to attend this year’s conference.

The Dream Auction provides a variety of items bound to appeal to everyone in the crowd. It’s a perfect opportunity to start your Christmas shopping with many one-of-a-kind items available. There is something for everyone!

Entertainment · Crafts · Family Activities · Wine · Art · Jewelry

We look forward to having you join us for an evening of fun!

There are two ways to take home a great item:

- » Silent Auction – how high will you go.....?
- » Bucket Draw – 1 ticket for \$2; 3 for \$5; an arm length of tickets for \$20

Some of this year’s items at our Dream Auction include:

- » Iqaluit kayak (includes paddle, car kit, & safety kit)
- » Charcuterie board
- » Muskoka chair and fleece throw
- » Cryopac wood cooler
- » Potted trees
- » Holiday Beach Conservation Area cottage getaway
- » Veho ZB-6 on ear wireless headphones
- » Family camping & adventure package at the Warsaw Caves Conservation Area
- » Long Point Eco-Adventure zip line package
- » Nottawasaga Inn Great Escape Getaway Package
- » “Walking with the Sisters” painting by indigenous Artist Diane Montreuil
- » Bathurst Glen Golf 4-some 18 holes with cart
- » 4 VIP Tree top trekking passes
- » Chocolate goodie basket from Huntsville’s Nutty Chocolatier
- » Books, prints, gift cards, wine...

And much more!



Thinking of making a donation for the 2020 Symposium?

Please contact Freyja Whitten, Credit Valley Conservation, freyja.whitten@cvc.ca

YCP GRADUATION 8:00 PM - 8:20 PM

The Young Conservation Professionals (YCP) Leadership Program is a year-long personal and professional development program serving the conservation and environmental sector in Ontario since 2005.

The purpose of the YCP Leadership Program is to build capacity in the conservation sector by helping the next generation of leaders. The YCP program takes place over one calendar year and consists of three residential retreats, six skill-based workshops and graduation at the Latornell Conservation Symposium.

The 2019 YCP Leadership Team is made up of:

NAME	AFFILIATION
Diana Wilson	Toronto & Region Conservation Authority
Elizabeth Wren	Toronto & Region Conservation Authority
Peter Mitchell	University of Guelph
Vicky An	Toronto & Region Conservation Authority

2019 GRADUATES

NAME	AFFILIATION
Alexandra Bradburn	Otonabee Conservation Authority
Christine Bowen	Bay Area Restoration Council
Emily De Cloet	St. Clair Region Conservation Authority
Emily J Chandler	Upper Thames River Conservation Authority
Ericka Nardone	Credit Valley Conservation Authority
Gregory R. Urquhart	Friends of Hullett Marsh
Holly Anderson	Conservation Halton
James Somerville	Somerville Nurseries
Julie Vanden Byllaardt	Hamilton Harbour Remedial Action Plan
Michael J Kent	Forestry, City of Sarnia/ Lambton Wildlife
Summer Graham	Hamilton Conservation Authority
Tatianna Lozier	Upper Thames River Conservation Authority

Want to Grow as a Leader?

Applications for 2020 are now available. Learn more at www.trca.ca/ycp

“The people who are crazy enough to think they can change the world are the ones who do.”

Rob Siltanen

CHOOSE YOUR OWN ADVENTURE - ROUND 2

Nobody can deny that the internet is one of the most important vehicles to communicate, but just like in automation and artificial intelligence, computers are great, but nothing beats the power of the human connection. Wednesday evening events are all about connection, both passive and active. Networking events are a great place to meet a lot of like-minded people at one time. So take a look at our second evening of choose your own adventure activities.

» Latornell Networking Event, sponsored by AECOM

(Location: Room 41)

Looking to catch up with friends and unwind after an eventful day at Latornell? Then join us at the AECOM Evening Lounge in Room 41 for snacks, refreshments and live music, courtesy of the AECOM House Band!



Complimentary beverage and raffle tickets will be given to the first 50 attendees, and at 11:00 PM an exciting prize draw will be held! No reservations necessary – we look forward to having you join us!

AECOM

» Film Night with Jen Podemski - A Screening of an Episode from Future History Following by a Q&A

(Location: Room 18)

Join us as we watch an episode of the Ground Breaking Indigenous Docu-Series Future History with Canadian Producer and Actress Jennifer Podemski with co-hosts Kris Nahrgang and Sarain Fox, and Producer Geoff Ewart, followed by a Q & A.

Now in its second season, Future History returns to explore stories of Indigenous communities in Canada who are leading the reclamation movement. The storytellers delve deep to share differing Indigenous perspectives and open the conversation to provoke dialogue and debate.



» Continue to Mix and Mingle with Exhibitors until 10:00 PM

(Location: Exhibitors' Galleries A and B)

DAY THREE

PROFESSIONAL DEVELOPMENT BREAKFAST

Ticketed Event - Thursday 7:30 AM to 8:45 AM (Room 41)

Join us for an stimulating Professional Development Breakfast on Day 3 of this year's Latornell Conservation Symposium. The concept is to utilize the great opportunity this conference presents in bringing together individuals starting on their environmental careers with senior-level or advanced career professionals representing a cross-section of the conservation sector. We want to create a space at Latornell to bring together these groups to ask questions and facilitate conversation around key lessons learned and experiences that helped shape their respective careers in conservation.

This event is sponsored in part by R.J. Burnside & Associates Limited.



Engineers and Environmental Consultants

Burnside has nearly 50 years of experience in providing engineering and environmental solutions that are mindful of the surrounding natural environment. Our over 350 scientists, engineers and support staff operate in 10 offices across Canada and share this commitment to environmental stewardship in all the work that we do.

Please visit us at booth #52 to discuss your next project!

www.rjburnside.com

Did You Know? We Have a Networking Forum

Did you know that the Latornell Professional Development Program hosts an online networking forum on LinkedIn? It is a place for members of Ontario's conservation community to come together to forge new professional contacts, find out about upcoming mentorship events, build new friendships and much, much more! Search "Latornell Mentorship" on LinkedIn or contact Bill Trenouth and Jamie Joudrey for more details.

Learn more about the Latornell Professional Development Program on page 10.



healthyhikes.ca

“We have lived our lives by the assumption that what was good for us would be good for the world. We have been wrong. We must change our lives so that it will be possible to live by the contrary assumption, that what is good for the world will be good for us. And that requires that we make the effort to know the world and learn what is good for it.”

Wendell Berry

DAY THREE

Watershed Management

TH1A ROOM 2

Innovative Practices for Floodplain Mapping, Flood Forecasting and Watershed-Scale Criteria for Flood Control

Explore current practices and real-life examples of floodplain mapping, real-time monitoring to enhance flood forecasting and approaches to establishing watershed-scale criteria for flood control.

Recent Updates to Flood Plain Mapping at Hamilton Conservation Authority

[Jonathan Bastien](#)

Hamilton Conservation Authority

Real-Time Hydrometric Monitoring to Enhance Flood Forecasting and Warning in the Credit River Watershed

[Tim Kuntz](#)

Credit Valley Conservation

A Contemporary Approach to Establishing Watershed-Scale Criteria for Flood Control

[Aaron Farrell](#)

Wood

Climate Change

TH1B ROOM 7

Climate Change: Flooding and Adaptation Planning

Climate change adaptation is one of the most important issues facing municipal, provincial, and federal governments today. Session will explore: deriving future climate IDF curves for the Metro Vancouver area and performance of a historical rainfall analysis, and using a risk management approach for climate change adaptation planning.

Automatic Tool for Deriving Current and Future IDF Curves and Design Storms

[Allyson Bingeman](#)

GHD

Using a Risk Management Approach for Climate Change Adaptation Planning

[Allison Barrett](#)

GHD

Natural Channels

TH1C ROOM 8

Application of Novel Methods in Watercourse Restoration

Historic degradation of urban channels leaves us with lasting challenges, but also opportunities to implement progressive restoration approaches. Join us as we review two such opportunities from within the GTA that aim to achieve sustainable management and restoration through considering multiple scales in space and time and promoting sustainable sediment dynamics with transport continuity between reaches.

Assessing Geomorphic Conditions to Build Towards a Multidisciplinary Watershed Management Strategy: Case Study in Fletcher's Creek, Brampton, Ontario

[Matthew Vetta and Jason Krompart](#)

Credit Valley Conservation

Nearly Natural Channel Design: Realigning Two Urban Partially-Confined, Semi-Alluvial Shale Bedrock Channels

[Elisa Bernier](#)

Conservation Halton

[and Emma Buckrell](#)

Aquafor Beech

9:00 AM – 10:15 AM

Natural Heritage and Stewardship

TH1D ROOM 1

Latest in Biodiversity Research - Northern and Rural Ontario

This session presents the latest research into new survey techniques and studies focusing on northern and rural areas in Ontario. Presentations include research on wavyrayed lampmussel, fungal diversity, swallow species and more!

Monitoring Post-Breeding Swallow Roosts in Southern Ontario

Aly Hyder Ali and Ted Cheskey
Nature Canada
 @AlyHyderAli1

Wavyrayed Lampmussel Distribution in the Lower Speed River - Investigation of Survey Techniques

Courtney Beneteau
Parsons

Freshwater Food Web Recovery Responses

Jade Dawson
Laurentian University
 @JCDawson

Fungal Biodiversity within Coarse Woody Debris in Northern Ontario Boreal Forests

Saskia Hart
Laurentian University
 @SaskiaCHart

Municipal and Environmental Relationships

TH1E ROOM 9

Municipal Strategies for Addressing the Truth and Reconciliation Calls to Action

[Workshop]

Reconciliation with Indigenous Peoples is an immense national undertaking. Join us for this informative half day workshop to learn how cities and communities across Canada are forging new relationships with Indigenous Peoples along a path of reconciliation based on cooperation, empathy and respect.

Gary Pritchard,
Cambium Aboriginal
Doug Saccoccia,
County of Peterborough
and Kaitlin Hill
Curve Lake First Nation

Workshops and Field Tours

TH1F/TH2F ROOM 11

Wampum Belts Related to Anishinaabe History

[Workshop 9 AM-12:00 PM]

Brian Charles is an off-reserve Band member of the Chippewas of Georgina Island and has worked collaboratively with a small group of knowledge keepers to research and assemble a physical repository of wampum belts that document Ojibwa history. The presentation will illuminate how wampum was used to record not only relationships and treaties between the First Peoples of the Eastern Woodland, but also with settler societies in Canada.

Brian Charles
Educator

“It is not the strongest of the species that survive, nor the most intelligent, but the ones most responsive to change.”

Charles Darwin

DAY THREE

Watershed Management

TH2A ROOM 2

Water Use, Water Conflict and Water Management: What Have We Learned?

Join us for an overview of 3 projects that provide specific examples of water management relating to water budgets and conflicting land uses, snow management and disposal, and phosphorous control on a watershed wide basis.

Beyond Source Water Protection: A Case Study of Water Budgets in Whitemans Creek

[Stephanie Shifflett](#)

Grand River Conservation Authority

Snow Management/Disposal Facilities – Lessons Learned from Inception to Operations

[Dilan Singaraja](#)

GHD

99,000 Solutions and a Two Stage Ditch Is Just One: Prioritizing Watershed-Wide Solutions to Rural Non-Point Source Pollution

[Jay Michels](#)

Emmons & Olivier Resources Inc.

[and Olivia Sparrow](#)

Emmons & Olivier Resources

Canada Inc.

[@LivMSparrow](#)

Climate Change

TH2B ROOM 7

Building a Foundation: Deriving Local Climate Change Projections and Guidance for use by Durham Region and Greenbelt Municipalities

The NECCC secured funding (Greenbelt Foundation) to update climate change projections across the Regions watersheds. Results from this modelling will be a foundational piece to all climate change work in Durham Region. Project will include the completion of a guidance document that will be distributed to all Greenbelt municipalities.

[Ian McVey](#)

Region of Durham

[Jade Schofield](#)

Natural Environment Climate

Change Collaborate & Town of

Whitby

Conducting a Climate Change Analysis at the Local Scale: Lessons Learned from Durham Region

[Frances Delaney](#)

Ontario Climate Consortium

Natural Channels

TH2C ROOM 8

Innovative Methods in River Management

This session will cover the application of some emerging approaches in natural channel design and river management, from substrate sizing to the use of LiDAR and remote sensing drone technology to providing economic incentives for riparian buffers in agricultural settings.

Getting out from under the Rock: Benefits of Site Specific Design

[Rhoneke Van Riezen](#), [Jay Cashubec](#), and [Jhalmar Maltez](#)

AECOM

Reach for the Sky! Fluvial Geomorphological Applications of LiDAR, Remote Sensing and Drone Technology

[Rhoneke Van Riezen](#)

AECOM

Fruit and Nut Trees: New Crops and an Approach to On-farm Riparian Buffers

[Ronda Boutz](#) and [Chris Craig](#)

South Nation Conservation

[@SouthNationCA](#)

10:45 AM – 12:00 PM

Natural Heritage and Stewardship

TH2D ROOM 1

Latest in Biodiversity Research – Urban and Suburban Environments

This session presents the latest biodiversity research to inform the management of Ontario’s flora and fauna, focusing on biodiversity like pollinators, amphibians and managing invasives in urban environments.



Monitoring of Wildlife Tunnels (and Associated Fencing) to Maintain Connectivity for Amphibians in an Urbanizing Landscape

*Samantha Hughes
North-South Environmental*

Floral Resource Competition between Native Bees and Honeybees in Toronto

*Sarah MacKell
York University
@MacKellSarah*

Benefits of Non-Natives: A Recognition of Evolving Times in the Urban Context

*Chris Morrison
StormWaterForestry*

Municipal and Environmental Relationships

TH2E ROOM 9

Valuing Nature: Fish Habitat Banking and Ecosystem Compensation

Learn why DFO is moving toward fish habitat banks as the preferred method of compensation, and how ecosystem compensation is determined and managed in the Toronto Region to ensure that restoration is strategic, guided by science and reflective of natural system objectives.



Fish Habitat Banks Will Change the World of Stream Restoration

*Brad Fairley
5 Smooth Stones Restoration Inc.*

Striving to Restore a Living City - Ecosystem Compensation in the Urban Environment

*Kelly Jamieson and Noah Gaetz
Toronto and Region Conservation Authority*

Workshops and Field Tours

TH1F/TH2F ROOM 11

Wampum Belts Related to Anishinaabe History (Continued)

[Workshop 9 AM-12:00 PM]

Brian Charles is an off-reserve Band member of the Chippewas of Georgina Island and has worked collaboratively with a small group of knowledge keepers to research and assemble a physical repository of wampum belts that document Ojibwa history. The presentation will illuminate how wampum was used to record not only relationships and treaties between the First Peoples of the Eastern Woodland, but also with settler societies in Canada.



“Giving up because of one setback is like slashing your tires because you got a flat.”

Mel Robbins

THURSDAY LUNCHEON PROGRAM

KEYNOTE: DR. PETER BECKETT, RESTORATION ECOLOGIST REGREENING SUDBURY

Peter Beckett has a Ph.D in wetland ecology from King's College, London, UK. For 40 years he has been a restoration/reclamation ecologist and wetland specialist at Laurentian University in Sudbury, Ontario, Canada. He is an Associate Professor in the Department of Biology and in the Vale Living with Lakes Centre. Peter has been a member of Vegetation Enhancement Technical Advisory Committee (VETAC) since 1978 and is currently serving as Chair. VETAC is an Advisory Panel to The City of Greater Sudbury that oversees the local landscape restoration projects and the transformation of the image of the City following impacts of mining and smelting. He has worked on reclamation projects on many mine sites and around smelter locations across Northern Ontario together with numerous graduate students.



Peter has been a President and Director of the Canadian Land Reclamation Association (CLRA) and holds a Noranda Award for “outstanding achievements in reclamation” and in 2016 was awarded The Watkin Award for Reclamation by the CLRA and Pioneers in Reclamation Award by the American Society of Mining and Reclamation. Peter is an honorary member of the China Land Reclamation Society. He is Co-Chair of the Sudbury International Mining and Environment Conferences. He teaches courses in restoration ecology, biostatistics, wetland ecology as well as leading many field trips for local, national and international visitors to local wetlands, forests and restored/reclaimed sites.

Dr. Beckett has given numerous invited presentations on and participated in conferences discussing aspects of the Sudbury Protocol world-wide, including Canada, United States, Peru, Chile, Hong Kong, Australia, China, Russia, United Kingdom and other European countries.



CONTINUE LEARNING AFTER THE SYMPOSIUM

Visit the Latornell Conservation Symposium website after the event to download speaker presentations (as available) and resource materials on the Symposium theme.

We also provide links to Exhibitors' websites where you can find more information on their products and services.

Stay Informed! Receive our e-blasts throughout the year informing you of updates and deadlines.

Just go to the Symposium website (www.latornell.ca), click on Contact Us and fill out the Mailing List Subscription Form. If you want to join the Twitter conversation, follow our Twitter feed @ADLatornell and add the hashtag #latornell to your tweets.



NATURAL CHANNELS 2020

7th Conference on Natural Channel Systems
July 6-8, 2020 · University of Guelph, ON

Balance: Balancing Driving and Resisting Forces to Achieve Project Goals

Building on recent meetings, the theme for the 7th Natural Channels Conference is Balance. Balancing approach to design and project goals, balancing driving and resisting forces in order to ensure outcomes that match the process. This work is created over generations and integrates knowledge and practice from geomorphologists, engineers, landscape architects, and stream biologists.

Stay tuned: call for abstracts coming January 2020

Visit our updated website www.naturalchannels.ca for more information on key dates, sponsorship opportunities and to sign up to our newsletter.

www.naturalchannels.ca

DAY THREE

Watershed Management

TH3A ROOM 7

Building a Circular Economy for Phosphorus

[Panel]

Join this panel discussion on how to start to build the circular economy of phosphorus. The discussion will be based on experiences in Europe and would include the production, use, and re-use of phosphorus, from agricultural and municipal sources. How do we keep phosphorus in the economy and out of the environment?

Panel Moderator

Sarah Rang

Blue Water Consulting

Phil Dick

*Ontario Ministry of Agriculture,
Food and Rural Affairs*

Charlie Lalonde

*Thames River Phosphorus
Reduction Collaborative*

Pat Donnelly

City of London

Ed Weinberg

ESSRE Consulting, Inc.

 **@EdEssre**

Climate Change

TH3B ROOM 2

Climate Change Impacts to the Great Lakes Shoreline

Climate change is anticipated to cause hydrologic patterns to change from natural trends along the Great lakes. Learn about an innovative methodology that provides a quantitative assessment of the impact of climate change on coastal flooding on the shorelines of the Great Lakes, and a first approximation macrophyte-based wetland hydrologic vulnerability index for Great Lakes marshes.

A First Approximation Macrophyte-Based Wetland Hydrologic Vulnerability Index for Great Lakes Marshes: Assessing Potential Vulnerability to Climate Change

**Kristen Harrison and Sarah
Mainguy**

North-South Environmental Inc.

Impact of Climate Change on Coastal Flooding on the Shoreline of Great Lakes

Pat Prodanovic

GHD

Natural Channels

TH3C ROOM 8

Good Things Happening: Case Studies in Channel Restoration

Looking for some inspiration? Look no further! This session will explore two projects where degraded channel systems are being restored to achieve multiple goals including reducing habitat fragmentation, enhancing fish passage, improving water quality, improving sediment transport and watercourse functions and maintaining or restoring wetlands. Learn about the challenges encountered and partnerships that were formed along the way.

Overcoming Barriers for Fish Migration & Stream Health - The Beeton Creek Restoration Experience (Combining Community Stewardship, Green Infrastructure and Science)

Silvia Pedrazzi

*South Simcoe Streams Network |
Nottawasaga Futures*

and Fred Dobbs

*Nottawasaga Valley Conservation
Authority*

How Second Creek Got Its Groove Back - 10 Years of Holistic Restoration at the Terra Cotta Conservation Area

Paul Villard

GEO Morphix

and Mark Hendry

Credit Valley Conservation

1:45 PM – 3:00 PM

Natural Heritage and Stewardship

TH3D ROOM 1

Green Infrastructure & ReconciliACTION

In 2017, a unique partnership was created with the Native Canadian Centre of Toronto, the University of Toronto (UofT), and Toronto and Region Conservation Authority (TRCA) - resulting in the creation of the 'Nikibii Dawadinna Giigwag' Indigenous youth employment and internship program. Come hear the story first hand about this successful ReconciliACTION: the importance of the program, how it was initiated, and how it is being implemented - from three of the four women who co-lead this work.

Panel Moderator


Sheila Boudreau

EOR Inc.

 [@SheilaBoudreau](#)

Elder Whabagoon

Lac Seul First Nation, University of Toronto

 [@Whabagoon](#)

Liat Margolis

University of Toronto

Municipal and Environmental Relationships

TH3E ROOM 9

Protecting Our Resources: Tools, Case Studies and Recommendations for Municipalities

Join us this informative session for tools, innovative suggestions, and case studies related to source water protection programming at the municipal level, natural heritage and biodiversity preservation through the Official Planning process, and tackling the toughest issues facing the Great Lakes today and in the future.

York Region's Source Water Protection: Past, Present, and Future

Colleen Barfoot

The Regional Municipality of York

Natural Heritage Action Plan: Prioritizing Actions to Implement Official Plan Policies on Natural Heritage and Water Resources

Leah Lefler and April Nix

City of Guelph

 [@LeahLefler](#)

 [@anix0913](#)

Great Lakes and St.Lawrence Collaborative

Nicola Crawhall

Westbrook Public Affairs

A Better Significant Woodland Size Criterion: Going beyond a Total Cover Approach

Kristen Harrison

North-South Environmental Inc.

“Change is not a four letter word...but often your reaction to it is!”

Jeffrey Gitomer

DAY THREE

Watershed Management

TH4A ROOM 9

Costs and Benefits of Water Management in Ontario's Greenbelt

The session will present results from a two-year project examining how agricultural climate adaptation measures can influence regional water availability and how understanding how adaptation measures can influence water allocation trade-offs during regional supply shortages.

Derek Robinson
University of Waterloo

Jeff Wilson
Green Analytics

Tom Bowers
Greenbelt Foundation

Climate Change

TH4B ROOM 7

Climate Change Plans Through Collaboration

Two unique adaptation and action plans: First Nation communities within the Williams Treaty Territory area that identified specific health vulnerabilities, related to or being exacerbated by climate change, and The Muskoka Climate Change Action plan that was developed with elements from strong partnerships with the local Watershed Council and District Health Unit.

Made in Muskoka: A Different Approach to Climate Change Action Plans

Kevin Boyle
The District Municipality of Muskoka
and Christy Doyle
District of Muskoka and the Muskoka Watershed Council

Climate Change Health Adaptation Project - Addressing Health Impacts and Vulnerabilities within First Nations Communities – a Collaborative Approach

Kerry-Ann Charles
Cambium Aboriginal
and Brenda Armstrong
Simcoe Muskoka District Health Unit

Natural Channels

TH4C ROOM 8

Enhancing Environs: Supporting Species Using Natural Channel Design Principles

This session will describe completed restoration works on creeks in Hamilton, Milton and Brampton with a focus on fish passage and habitat, including a discussion of the feasibility of restoring reddsides to subwatersheds where they have become extirpated.

Rehabilitating Lower Spencer Creek - the Challenges and Compromise Required for Success When Working on Fixing Urban Streams

Colin Oaks
Hamilton Conservation Authority
[@Hamilton_CA](https://twitter.com/Hamilton_CA)

Weir Removals, Natural Channels and Floodplain Restoration in the Greenbelt

Nigel Finney
Conservation Halton

Natural Channel Design for an Aquatic Species at Risk vs. Nature's Engineer: Case Study of Mount Pleasant, Brampton

Dr. Trevor Pitcher
University of Windsor
Mark Heaton
Ministry of Natural Resources and Forestry (Retired)
and Noel Boucher
Savanta Inc.

3:15 PM – 4:30 PM

Natural Heritage and Stewardship

Municipal and Environmental Relationships

TH4D ROOM 1

TH4E ROOM 2

Post-Construction Restoration Projects: Elements of Success

Successful rehabilitation and restoration of disturbed land is especially important given that development is unlikely to slow in the near term. This session explores post-construction restoration initiatives to draw lessons and identify the necessary elements of success that can be applied to restoration projects across Ontario.

Measuring Impact: Developing Key Performance Indicators for Environmental Projects and Programs

Join us for a progressive information session on Peel Region's journey of alignment and accountability for its climate change programs through to the development of key performance indicators (KPIs). Learn how KPIs can help your municipality or CA to make smarter business decisions about the programs it invests in!

Creation of Diverse Wetland Habitats Post Aggregate Extraction

Melissa Cameron

Stantec

 @Stantec

Christine Tu and Learie Miller

Region of Peel

Vegetation and Wildlife Biodiversity Achievements Five Years Post-Construction in Southern Ontario's Largest Built Urban Natural Heritage System: Mount Pleasant, Brampton

Melanie Randolph and James Leslie

Savanta Inc.

Coordinated Rehabilitation Master Plan (RMP)

Wayne Caston

University of Waterloo

and Mary Anne Young

Dougan & Associates

Did You Know? We Want Your Feedback

The organizers of the Latornell Conservation Symposium strive to provide participants with the best possible program and event as possible. In order to do so, we need your input!

Following the Symposium, a link will be posted on the Latornell website and we'll also send out an email prompting delegates to fill out a survey. Providing us with your comments and contact information will enter you in a draw for a \$100 Mountain Equipment Co-op gift card.

Keep an eye out for our survey and we hope to hear from you!



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See You Next Year



LATORNELL
CONSERVATION SYMPOSIUM

at the Latornell Conservation Symposium
in November, 2020

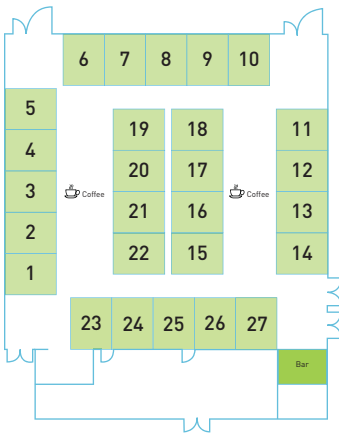
Nottawasaga Inn Resort & Conference Centre
Alliston, Ontario

THIS YEAR'S EXHIBITORS



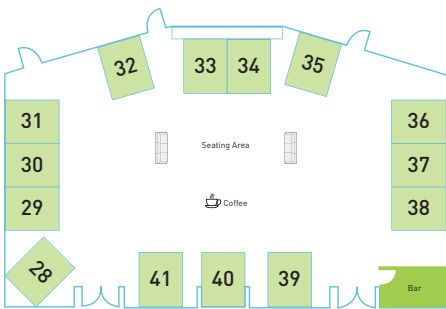
EXHIBITOR FLOORPLAN

EXHIBITOR GALLERY A Crystal Ball Room



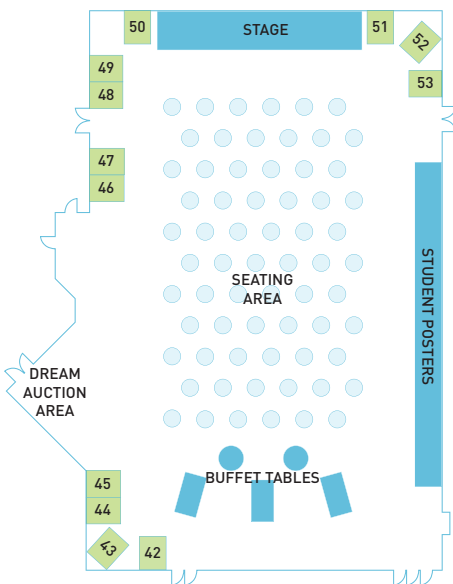
1. Waterloo Hydrogeologic
2. Computational Hydraulics International (CHI)
3. Forterra
4. Water Canada
5. Water's Edge
6. Skelton, Brumwell & Associates Inc.
7. Beacon Environmental
8. Ontario Soil and Crop Improvement Association
9. Forests Ontario
10. GEO Morphix Ltd.
11. GHD
12. Kilgour & Associates Ltd.
13. Hoskin Scientific Ltd.
14. Hoskin Scientific Ltd.
15. Rice Resource Technologies Inc.
16. University of Toronto Scarborough
17. Arts & Science Co-op & Master of Environmental Science
18. Fisheries and Oceans Canada - Species at Risk Program
19. Precision Biomonitoring Inc.
20. Natural Resource Solutions Inc.
21. Advanced Environmental Solutions Canada
22. Savanta - A GEI Company
23. Cambium Aboriginal Inc.
24. University of Guelph
25. OTT Hydromet
26. RiOT Technology Corp.
27. Watson & Associates Economists Ltd.

EXHIBITOR GALLERY B (ROOM 10)



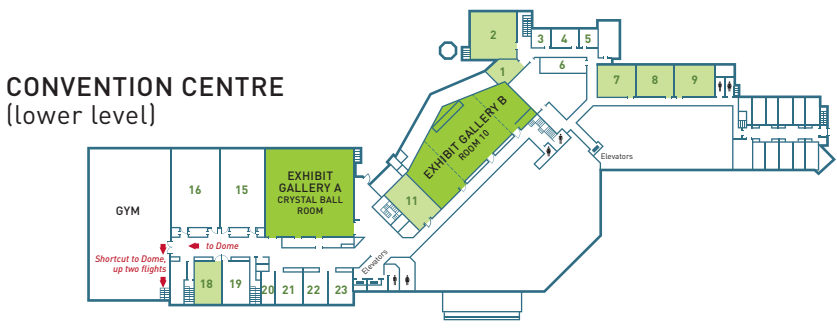
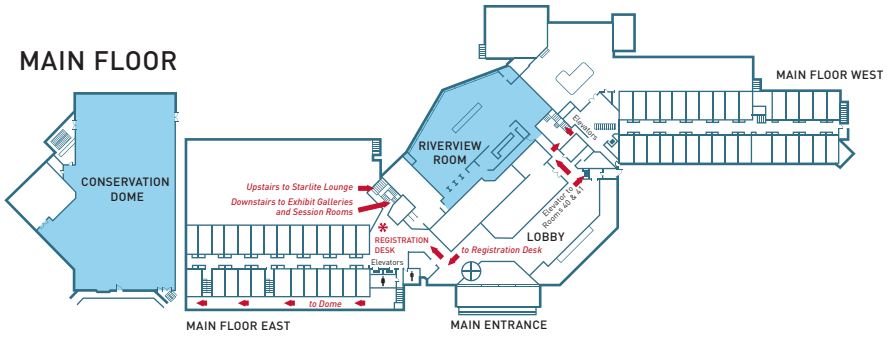
28. EnviroPod Canada Ltd.
29. Sustainable Technologies Evaluation Program (STEP)
30. Conservation Ontario
31. Conservation Ontario
32. Conservation Ontario
33. Indigenous Artisan – Marcos Arcentales
34. Indigenous Artisan – Barbra Nahwegahbow
35. Indigenous Artisan – Leah Atkinson
36. Indigenous Artisan – Pol Carlos & Aimee Rochard
37. Indigenous Artisan – Jeffrey George
38. Indigenous Artisan – Diane Montreuil
39. Young Conservation Professionals (YCP)
40. Walkerton Clean Water Centre
41. Green Infrastructure Ontario Coalition

CONSERVATION DOME



42. Book this booth next year
43. Book this booth next year
44. Ontario Nature
45. University of Toronto Scarborough - Arts & Science Co-op & Master of Environmental Science
46. Book this booth next year
47. Book this booth next year
48. Book this booth next year
49. Book this booth next year
50. Conservation Ontario
51. Conservation Ontario
52. R.J. Burnside & Associates Limited
53. EcoVue Consulting Services

NOTTAWASAGA INN FLOORPLAN



SESSION INFORMATION

SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR
T1A	2	Liz Favot	W1A	2	Fatima Mahmud	TH1A	2	Lisa Ashton
T1B	7	Emily Duncan	W1B	7	Lisa Ashton	TH1B	7	Jenn Baici
T1C	8	Jenn Baici	W1C	8	Jenn Baici	TH1C	8	Paul Michael Pilkington
T1D	1	Michelle Agagnostou	W1D	1	Chirag Patney	TH1D	1	Rachel Singer
T1E	9	Jessica Lukawiecki	W1E	9	Danielle Mayers	TH1E	9	Jessica Lukawiecki
T1F	11	Danielle Mayers	W1F	11	Rachel Singer	TH1F/TH2F	11	
			W1G-W4G	18	Paul Michael Pilkington			
T2A	2	Paul Michael Pilkington	W2A	2	Kieran Lehan	TH2A	2	Chirag Patney
T2B	7	Lisa Ashton	W2B	7	Michelle Agagnostou	TH2B	7	Kieran Lehan
T2C	8	Fatima Mahmud	W2C	8	Emily Duncan	TH2C	8	Anum Khan
T2D	1	Kieran Lehan	W2D	1	Chirag Patney	TH2D	1	Emily Duncan
T2E	9	Anum Khan	W2E	9	Jessica Lukawiecki	TH2E	9	Danielle Mayers
T2F/T3F	Lobby					TH1F/TH2F	11	
T2G/T3G	Lobby		W1G-W4G	18	Paul Michael Pilkington			
T3A	2	Liz Favot	W3A	1	Liz Favot	TH3A	7	Lisa Ashton
T3B	7	Danielle Mayers	W3B	7	Danielle Mayers	TH3B	2	Liz Favot
T3C	8	Michelle Agagnostou	W3C	8	Fatima Mahmud	TH3C	8	Fatima Mahmud
T3D	1	Jenn Baici	W3D	2	Jenn Baici	TH3D	1	Michelle Agagnostou
T3E	9	Jessica Lukawiecki	W3E	9	Anum Khan	TH3E	9	Rachel Singer
T3F/T2F			W3F/W4F	Lobby				
T2G/T3G			W1G-W4G	Lobby				
			W4A	9	Chirag Patney	TH4A	9	Paul Michael Pilkington
			W4B	7	Lisa Ashton	TH4B	7	Emily Duncan
			W4C	8	Rachel Singer	TH4C	8	Chirag Patney
			W4D	1	Kieran Lehan	TH4D	1	Kieran Lehan
			W4E	2	Michelle Agagnostou	TH4E	2	Anum Khan
			W3F/W4F					
			W1G-W4G					