

*Latonnell Conservation Symposium*

*November 17-19, 2015*

*Nottawasaga Inn Resort & Convention*

*Centre • Alliston, Ontario*

# *Weathering Change*

**Navigating a New Climate**

## *2015 Program*



UNIVERSITY  
of GUELPH

# Weathering Change

## LATORNELL CONSERVATION SYMPOSIUM

### SYMPOSIUM MANAGEMENT

Chair: **Lisa Turnbull**, Toronto and Region Conservation  
Past Chair: **Deborah Martin-Downs**, Credit Valley Conservation  
Symposium Co-Coordinator & Registrar: **Karen Anderson**, Allset Inc.  
Symposium Co-Coordinator & Website Coordinator: **Mario Maillet**, Allset Inc.  
Secretary: **Sara Epp**, University of Guelph  
Finance: **Jane Dunning**, Conservation Ontario  
Hotel and Facilities Coordinator: **Barbara Mackenzie-Wynia**, Ontario Nature  
Ex-Officio: **Kim Gavine**, Conservation Ontario  
**Dr. Stewart Hilts**, University of Guelph

### STEERING COMMITTEE

<b>Andee Pelan</b> Lake Simcoe Region Conservation Authority	<b>Jane Lewington</b> Conservation Ontario
<b>Barbara MacKenzie-Wynia</b> Ontario Nature	<b>Jayne Hughes</b> Kawartha Conservation
<b>Bill Trenouth</b> University of Guelph	<b>Jessica Isaac</b> Environmental Commissioner of Ontario
<b>Christine Schmalz</b> Ontario Soil and Crop Improvement Association	<b>Kendrick Doll</b> Ontario Heritage Trust
<b>Crystal Allan</b> Grand River Conservation Authority	<b>Sean Watt</b> Catawaqui Region Conservation Authority
<b>Darryl Finnigan</b> Ministry of Agriculture and Food	<b>Tanya Kampherh Martin</b> Regional Municipality of York
<b>Favelle Maschke</b> Ontario Stewardship	<b>Wanhong Yang</b> University of Guelph

### SYMPOSIUM PARTNERS



## WELCOME - CHAIR'S MESSAGE



The extreme weather events we are witnessing locally and globally have reinforced that climate change is not a problem of the future. Flooding, ice storms, tornadoes and droughts are all events that have become common place in news reports today. We know climate change is a challenge that one sector cannot solve on its own. The quest to find solutions and adaptation strategies is spurring discussions between the environmental, economic and social sectors while forging new collaborations with partners that may have seemed unlikely in the past. How we collectively navigate this new climate we are faced with is what has brought us all together for the next three days.

Whether you're a first time attendee or a long time member of our Latornell community, it is my pleasure to welcome you to the 2015 Latornell Conservation Symposium. For the last 22 years this Symposium has been the premier venue for the dissemination of leading edge information in the conservation field. This year is no exception. Our program will delve into the climate change impacts we are seeing in Ontario's watersheds and explore current and emerging best management practices that can be used to build environmental, economic and social resilience.

The feedback we received from previous attendees has been instrumental in helping to shape the 2015 Symposium. We have added additional field trips to offer 'hands on' learning experiences and will be experimenting with our first live webcast using the EcoHealth sessions as a pilot. We continue to offer breakout presentations in our core theme areas such as water, natural heritage and watershed management. As well, new streams have also been added this year including sessions led by the Lake Simcoe Science Forum and the Ontario Climate Consortium. With the depth of the program this year I am sure many delegates felt it was hard to decide which sessions to register for.

Planning for this Symposium is a year long process requiring the dedication of many. As the Chair of the Steering Committee I am a very small part of the larger 'force' that pulls this event together. The Symposium Steering Committee members have worked tirelessly to create a diverse program and poured over even the smallest of details for each day to ensure you have an exceptional experience. For many committee members their involvement with the symposium is a true personal passion and numerous week nights and weekends have been sacrificed. I want to extend a huge personal thank you to everyone who contributes to the success of this event!

I challenge all the delegates, speakers and exhibitors of the 2015 Latornell Conservation Symposium to absorb as much information as you can, take advantage of the networking opportunities with other conservation professionals, and enjoy yourself.



**Lisa Turnbull**  
Chair, 2015 Latornell Conservation Symposium

# Weathering Change

## LATORNELL CONSERVATION SYMPOSIUM

### CLIMATE CHANGE

Welcome to the 22<sup>nd</sup> annual Latornell Conservation Symposium co-hosted by Conservation Ontario and the University of Guelph. This event provides a forum for practitioners, policy makers, nongovernment organizations, academics and businesses to network and discuss the challenges and opportunities in Ontario's conservation field.

There is no longer a debate about whether or not climate change is happening but rather what actions we can take to navigate the new normal. This year's Latornell Conservation Symposium will explore the climate change impacts we are seeing in Ontario's watersheds, as well as current and emerging best management practices that are underway that can be used to build environmental, economic and social resilience.



### 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 Ontario 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).

Art 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 2015 Latornell Conservation Symposium.

### LATORNELL LOGO



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.



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# Weathering Change

## 2015 PROGRAM AT A GLANCE - DAY 1

### Day 1 - TUESDAY, NOVEMBER 17

8:00 AM - 9:30 AM	<p><b>Registration</b></p> <p>Refreshments – provided in the Conservation Dome</p>
9:30 AM - 10:45 AM	<p><b>Welcome, Introductions and Opening Remarks</b></p> <ul style="list-style-type: none"> <li>» <b>Lisa Turnbull</b>, Symposium Chair and Master of Ceremonies</li> <li>» <b>Dick Hibma</b>, Chair of Conservation Ontario</li> <li>» Keynote Speaker <b>Dr. Blair Feltmate</b>, Associate Professor, Program Director Sustainability Practice - University of Waterloo; Chair Climate Change Adaptation Project Canada</li> </ul>
11:00 AM - 12:30 PM	<p><b>Concurrent Sessions</b></p> <ul style="list-style-type: none"> <li>» <b>T1A:</b> Lessons Learned from Long-term Development Monitoring</li> <li>» <b>T1B:</b> Protecting Habitat</li> <li>» <b>T1C:</b> There's an App for That: Real-time Data Collection and Use via Customized Mobile Applications</li> <li>» <b>T1D:</b> Navigating in a New Climate: LID Tools to Weather the Storm</li> <li>» <b>T1E:</b> Connecting Watershed Ecosystems to Human Health</li> <li>» <b>T1F:</b> On The Rocks, What Will Change About Our Ice?</li> <li>» <b>T1G:</b> What's in Your E&amp;S Plan? Achieving Successful Erosion Control Through Proper Soil and Water Management</li> <li>» <b>T1H:</b> The State of Lake Simcoe and Its Watershed</li> </ul>
12:30 PM - 1:45 PM	<p><b>Luncheon</b></p> <ul style="list-style-type: none"> <li>» Latornell Leadership Awards Presentation</li> </ul>
2:00 PM - 3:30 PM	<p><b>Concurrent Sessions</b></p> <ul style="list-style-type: none"> <li>» <b>T2A:</b> Development + Watershed = Impacts → Monitor → Effects</li> <li>» <b>T2B:</b> Emerging Models for Conservation of Farmland and Associated Natural Heritage in Ontario</li> <li>» <b>T2C:</b> Linking Data with Decision-Makers</li> <li>» <b>T2D:</b> The Environmental Bill of Rights: A Versatile Toolkit for a Changing Climate</li> <li>» <b>T2E:</b> Addressing Climate Change Impacts on Human Health</li> <li>» <b>T2F:</b> State-of-the-art Tools to Manage Low Flow Conditions</li> <li>» <b>T2G:</b> Beyond Digging a Ditch: Integrating Ecological Restoration with Agricultural Drainage</li> <li>» <b>T2H:</b> Managing the Lake Simcoe Watershed (Part 1)</li> </ul>
3:30 PM - 4:00 PM	<p><b>Refreshment Break with Exhibitors</b></p>
4:00 PM - 5:30 PM	<p><b>Concurrent Sessions</b></p> <ul style="list-style-type: none"> <li>» <b>T3A:</b> How to Evaluate the Health of Our Water Bodies</li> <li>» <b>T3B:</b> Biodiversity in a Changing Climate: Resilience, Adaptation and the State of Ontario's Biodiversity</li> <li>» <b>T3C:</b> From a Distance: Remote Sensing Technologies</li> <li>» <b>T3E:</b> Building Resiliency with Rural Communities to Adapt to the Impacts of Climate Change</li> <li>» <b>T3F:</b> Going Coastal - Changing Approaches to Best Management of Coastal Shorelines</li> <li>» <b>T3G:</b> Restoration in Action - Case Studies</li> <li>» <b>T3H:</b> Managing the Lake Simcoe Watershed (Part 2)</li> </ul>
5:30 PM - 7:00 PM	<p><b>Exhibitor Galleries Wine &amp; Cheese / Live Animal Exhibit (Gallery B)</b></p>
7:00 PM - 8:15 PM	<p><b>Harvest Banquet Dinner</b></p> <p><b>Soil and Water Conservation Society (SWCS) A.D. Latornell Award of Merit Presentations</b></p>
8:30 PM - 11:00 PM	<p><b>Choose Your Own Adventure Social Events - See pages 21-22</b></p> <ul style="list-style-type: none"> <li>» Continue to Mix and Mingle with Exhibitors – Exhibit Galleries</li> <li>» Scotch Nosing – Starlite Lounge</li> <li>» Latornell Street Hockey – Arena Parking Lot</li> <li>» Movie Night: Weather Gone Wild –Amphitheatre 1</li> <li>» Mini Golf – Conservation Dome (street level)</li> </ul>
9:00 PM - 1:00 AM	<p><b>Hospitality Suite (Room 41)</b></p>

## 2015 PROGRAM AT A GLANCE - DAY 2

### Day 2 - WEDNESDAY, NOVEMBER 18

7:00 AM - 8:30 AM	<b>Registration</b> Refreshments – provided on Convention Level (lower level)
8:30 AM - 10:00 AM	<b>Concurrent Sessions</b> <ul style="list-style-type: none"> <li>» <b>W1A:</b> The Evolution of Source Protection</li> <li>» <b>W1B:</b> Species at Risk in a Changing Climate: Defining the Problem (Part 1)</li> <li>» <b>W1C:</b> New Thinking; New Possibilities</li> <li>» <b>W1D:</b> The Farmer's Decision: Navigating a New Business Climate</li> <li>» <b>W1E:</b> EcoHealth - Understanding 'Human Ecology' (Part 1)</li> <li>» <b>W1F:</b> Hydrology and Climate Change: What Do We Actually Know?</li> <li>» <b>W1G:</b> Natural Channels - Design, Construction and Maintenance Considerations in a Changing Climate (Part 1)</li> <li>» <b>W1H:</b> Identifying the Climate Change Science, Tools and Expertise Needed by Watershed Practitioners in Ontario (Part 1)</li> </ul>
10:00 AM - 10:30 AM	<b>Refreshment Break with Exhibitors</b>
10:30 AM - 12:00 Noon	<b>Concurrent Sessions</b> <ul style="list-style-type: none"> <li>» <b>W2A:</b> Salt – A Tricky Compound to Balance</li> <li>» <b>W2B:</b> Species at Risk in a Changing Climate: Exploring Options (Part 2)</li> <li>» <b>W2C:</b> Fundraising: A Funders Perspective</li> <li>» <b>W2D:</b> Weathering Change: The Farmland Health Check-Up and Linking Soil Health and Watershed Health</li> <li>» <b>W2E:</b> EcoHealth - Understanding 'Human Ecology' (Part 2)</li> <li>» <b>W2F:</b> Weather on Steroids: Burlington's Nightmare</li> <li>» <b>W2G:</b> Natural Channels - Design, Construction and Maintenance Considerations in a Changing Climate (Part 2)</li> <li>» <b>W2H:</b> Identifying the Climate Change Science, Tools and Expertise Needed by Watershed Practitioners in Ontario (Part 2)</li> </ul>
12:00 Noon - 1:45 PM	<b>RBC Foundation Luncheon</b> <ul style="list-style-type: none"> <li>» Young Conservation Professionals (YCP) Leadership Program Graduation Ceremon</li> <li>» Keynote Speaker <b>Dr. James Raffan</b>, Speaker, Author and Adventurer</li> </ul>
2:00 PM - 4:00 PM or 5:00 PM	<b>Concurrent Sessions / Workshops / Field Trips</b> <ul style="list-style-type: none"> <li>» <b>W3A:</b> Balancing Public Safety and the Environment - Salt Operations Tour</li> <li>» <b>W3B:</b> Get Adapting! Linking Climate Change Vulnerability Assessment to Adaptation Strategies in the Great Lakes Basin</li> <li>» <b>W3C:</b> Multivariate Statistics 101: Ordination and Clustering</li> <li>» <b>W3D:</b> Agricultural Water Quality: From Soil Health to Controlled Drainage [Tour]</li> <li>» <b>W3E:</b> The Economics of Climate Change</li> <li>» <b>W3F:</b> 1D vs 2D Modeling - When, Why and How?</li> <li>» <b>W3G:</b> Healthy Connections: Restoration at Scanlon Creek Conservation Area [Tour]</li> <li>» <b>W3H:</b> Navigating the Weather: CANWARN Storm Spotter Training</li> <li>» <b>W3I:</b> Smart Urban Planning and Development – What's the Key to Saving the Greenbelt? [Panel]</li> </ul>
4:00 PM - 4:30 PM	<b>Refreshment Break with Exhibitors</b>
5:00 PM - 7:00 PM	<b>Student Poster Display and Competition</b>
5:00 PM - 8:00 PM	<b>Dream Auction</b>
6:30 PM - 9:30 PM	<b>Gala Banquet</b>
8:30 PM - 9:30 PM	<b>The Annual Gala Banquet Entertainment: Trivia Night</b>
10:00 PM - 1:00 AM	<b>Hospitality Suite</b> (Room 41)

The following events take place in the Conservation Dome on Tuesday & Wednesday: Welcome and Introductions, all Plenary Sessions and Keynote presentations, all meals, Leadership Award Ceremony, Student Poster Display, Dream Auction, Gala Banquet, Young Conservation Professional Graduation and the RBC Foundation Luncheon.

# Weathering Change

## 2015 PROGRAM AT A GLANCE - DAY 3

### Day 3 - THURSDAY, NOVEMBER 19

7:00 AM - 8:30 AM	<b>Registration</b> » Refreshments – provided on Convention Level
8:30 AM - 10:00 AM	<b>Concurrent Sessions</b> » <b>TH1A:</b> How Resilient is Your Watershed? » <b>TH1B:</b> Status of Brook Trout and Prospects for Resiliency in a Changing Climate » <b>TH1C:</b> Latornell Mentorship Program 2015 - What's Next? Career Strategies in the Age of Chaos and Anxiety » <b>TH1D:</b> The Bald Eagle Stayed All Winter: Local Adaptive Strategies for a Global Issue » <b>TH1E:</b> Building Relationships » <b>TH1F:</b> Changing Climate, Changing Storage, Where Will We Put the Water? » <b>TH1G:</b> Habitat: It's for the Birds!
10:00 AM - 10:30 AM	<b>Refreshment Break with the Exhibitors</b>
10:30 AM - 12:00 Noon	<b>Concurrent Sessions</b> » <b>TH2A:</b> How Resilient is Your Watershed? » <b>TH2B:</b> Urban Nature in a Changing Climate » <b>TH2C:</b> Latornell Mentoring: Getting Started on Your Career » <b>TH2D:</b> Engaging Private Landowners in Conservation and Stewardship » <b>TH2E:</b> Adapting Your Communications in a New Climate [Workshop] » <b>TH2F:</b> How We Measure up to Water Quality Improvement Goals » <b>TH2G:</b> Extracting the Benefits: Rehabilitating Ontario's Pits and Quarries
12:00 Noon - 1:00 PM	<b>Luncheon</b> » Keynote Speaker <b>Lapo Calamai</b> , Director, Catastrophe Risk and Economic Analysis - Insurance Bureau of Canada
1:15 PM - 2:45 PM	<b>Concurrent Sessions</b> » <b>TH3A:</b> Watershed Modeling - A Tool for Decision Making » <b>TH3B:</b> Lesson Learned at Ostrander Point: A Recent Victory for Habitat Protection » <b>TH3C:</b> Construction 101 » <b>TH3D:</b> From Theory to Change: Engaging Communities to Make a Difference » <b>TH3E:</b> Tools and Channels for Effective Communications » <b>TH3F:</b> Surface and Groundwater Monitoring and Its Importance in a Changing Climate » <b>TH3G:</b> A Changing Climate for Biodiversity
3:00 PM - 4:30 PM	» Keynote Speaker <b>Bill McKibben</b> , Leading Environmental Speaker and Founder of 350.org » Wrap up

The following events take place in the Conservation Dome on Thursday:

Welcome and Introductions, all Plenary Sessions and Keynote presentations, all meals and Wrap Up.



## A.D. LATORNELL AWARD OF MERIT



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.

It was decided this year to discontinue the professional (non-student) category and focus on the student category for the award. The winner of the Award receives a one year membership to SWCS, a cash award of \$600 and a one day registration to the Latornell Conservation Symposium. This year's Award recipient is:

**Amy Langford**, Environmental Engineering (Co-op), *University of Guelph*

Amy is completing her 4<sup>th</sup> year in the University of Guelph's Environmental Engineering program. Amy is passionate about "finding innovative ways to treat wastewater before it becomes a harmful effluent of lost resources." As a co-op student she has had the opportunity to directly assist the Ontario Clean Water Agency in the conservation of water and the Ontario Ministry of Agriculture, Food and Rural Affairs in the conservation of soil. These experiences and her engineering courses have taught her "about treating wastewater, recovering resources and closing the wasteful loop of soil and nutrient loss."

Work experiences led Amy to revive the Student Chapter of the Water Environment Association of Ontario / Ontario Water Works Association on campus "to assist other students in my program and across campus in connecting the dots between their interests in soil and water conservation and the water industry professionals in Ontario." As the current Chapter President, Amy is leading the executive to gain members from all education levels of the student population and to facilitate knowledge transfer from seasoned professionals to students interested in water conservation. Amy sees the award as an asset in planning groundwater education outreach and Lake Erie conservation events for students in the coming year. Amy exemplifies the type of young conservationist Art would want to support.

# Weathering Change

## 2015 LATORNELL CONSERVATION GRANT

The Latornell Conservation Symposium Grant was established in the 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.

Since 2002, a total of 264 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 one day registration package, including Symposium meals, and accommodations at the Nottawasaga Inn.

Individuals interested in applying for a 2016 Symposium grant are encouraged to do so at [www.latornell.ca](http://www.latornell.ca).

### SUCCESSFUL CANDIDATES OF THE 2015 GRANT PROGRAM

**Greg Bunker**, *Kawartha Conservation*

**Lorraine Chung**, *Evergreen*

**Jennifer Hoesen**, *Soil and Crop Improvement*

**Dmitry Kats**, *DLK Inc.*

**Cassandra Michel**, *Carleton University / Rideau Valley Conservation Authority*

**Becky Parker**, *Kawartha Conservation*

**Carleigh Pope**, *rare Charitable Research Reserve*

**Marisa Ramey**, *Carleton University / Rideau Valley Conservation Authority*

**Sandi Hibbard-Ramsay**, *Lower Trent Conservation*

**Naomi Saunders**, *Nottawasaga Valley Conservation Authority*

**Alexandrina Shannon**, *University of Waterloo / Toronto and Region Conservation*

**Fraser Smith**, *Ganaraska Region Conservation Authority*

**Jan Michael Tjendra**, *University of Waterloo*

**Kestrel Wragget**, *Conservation Halton*



# Ontario

Ministry of Natural Resources and Forestry,  
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Conservation Symposium

# How big is your footprint?

Ontario's  
per capita Ecological Footprint  
decreased by almost **20%**  
between 2005 and 2010

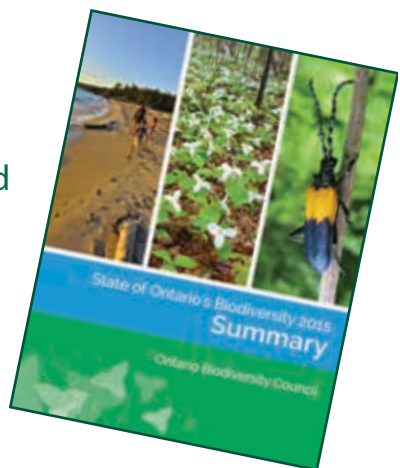
The Ecological Footprint assesses human demand on natural resources and identifies whether our consumption levels are exceeding the Earth's ecological limits.



Try our new online footprint calculator :

[ontariobiodiversitycouncil.ca](http://ontariobiodiversitycouncil.ca)

Want to learn more about biodiversity status, trends and Ontario's progress on its biodiversity targets? Pick up a copy of the *State of Ontario's Biodiversity 2015 Summary Report*.



# Weathering Change

## VISITING WITH EXHIBITORS

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

The first area is the Exhibit Galleries (A and B). They located near concurrent session rooms on the lower level of the hotel.

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

Over the course of the Symposium, delegates can also relax and network in the Green Gallery set up between Gallery A and B on the lower level of the Nottawasaga Inn. Wireless internet service is available.

### TUESDAY, NOVEMBER 17, 2015

8:30 AM	–	11:00 PM	Exhibit Galleries Open Hours
3:30 PM	–	4:00 PM	Refreshment Break with Exhibitors
5:30 PM	–	7:00 PM	Wine and Cheese in the Exhibit Galleries
8:30 PM	–	10:00 PM	Mix and Mingle in the Exhibit Galleries

### WEDNESDAY, NOVEMBER 18, 2015

8:30 AM	–	6:00 PM	Exhibit Galleries Open Hours
10:00 AM	–	10:30 AM	Refreshment Break with Exhibitors
4:00 PM	–	4:30 PM	Refreshment Break with Exhibitors

### THURSDAY, NOVEMBER 19, 2015

8:30 AM	–	12:00 PM	Exhibit Galleries Open Hours
10:00 AM	–	10:30 AM	Refreshment Break with Exhibitors

## VISIT THE GREEN GALLERY

The Latornell Conservation Symposium is offering a new 'Green space' this year located in the lower level between the two main exhibit galleries. It's a tree and shrub filled space with benches for delegates to recharge their batteries and network.

Holland Marsh Growers' Association will be setting up a market to enjoy. You can also learn about the Latornell Mentorship Program and EcoHealth Ontario.

## CREATURE QUEST COMES TO LATORNELL

**Tuesday, November 17<sup>th</sup> from 5:30 – 7:00 PM in Exhibit Gallery B**



Creature Quest is an Institutional Member of Canada's Accredited Zoos and Aquariums (CAZA). Founded in 2006 by Duane and Yolanta Bailey on the principal that the living world and its inhabitants are important and that learning should be fun and interactive, Creature Quest brings together animals of various species not only to

demonstrate biological concepts but to provide guests with the opportunity to create a real and memorable connection to animals.

We hope that these up close encounters will inspire you to continue to help conserve our natural world.

## OPENING PLENARY SESSION

9:30 AM TO 10:45 AM – OPENING PLENARY SESSION/  
KEYNOTE SPEAKER

**Blair Feltmate** • Associate Professor, Program Director  
Sustainability Practice - University of Waterloo; Chair Climate Change  
Adaptation Project Canada



**Dr. Feltmate** is Associate Professor, Faculty of Environment, University of Waterloo, where he teaches the Master of Environment and Business program. His primary professional focus is to de-risk Canada relative to climate change and associated extreme weather events. Positions he holds include: Intact Financial Chair, Climate Change Adaptation, Canada; Senior Advisor, Sustainable Electricity Program, Canadian Electricity Association; Board Member, CLEAResult; Senior Advisor, Corporate Knights Magazine.

Dr. Feltmate was previously Vice President, Sustainable Development, Bank of Montreal, and Director Sustainable Development, Ontario Power Generation. He helped to establish the Sustainable Electricity Program, Canadian Electricity Association, which he has been involved with for 9 years. Dr. Feltmate has developed the sustainable development programs for two dozen multi-national companies and industry associations. He has written scores of publications, and he has published two textbooks: Aquatic Insects and Sustainable Banking.

Keynote Address: **The State of Flood Preparedness of Major Canadian Cities: Strengths, Weaknesses and Areas for Improvement**

Over the past 10 years, Canada has experienced costly extreme weather events, primarily related to flooding within and around cities. This presentation will provide a quantitative evaluation of the preparedness of 15 major Canadian cities to mitigate flood impacts, based on 16 performance measures that fall into the broad categories of water distribution, real estate, essential businesses and emergency services. The purpose of the presentation is to profile strengths and weaknesses of cities relative to flood preparedness, and to identify new means to lower flood risk profile. The role that conservation authorities can play as facilitators to de-risk cities – by integrating efforts with the banking, insurance and other essential business services – will be profiled.

## NEW FOR 2015: LIVE STREAMING OF SELECT SESSIONS

As part of our efforts to reach a broader audience in order to build a conservation community, the Latornell Conservation Symposium is live streaming five concurrent Environment, Economy and Health sessions. These include T1E, T2E, T3E, W1E and W2E. This pilot project is sponsored by EcoHealth Ontario, a new collaborative of professionals working in the environmental, public health, and planning sectors. EcoHealth Ontario strives to build a shared vision that connects a healthy environment to our own well-being. For more information or to join the collaborative: [www.ecohealth-ontario.ca](http://www.ecohealth-ontario.ca).





# Day one

Watershed Management

Natural Heritage

Show and Tell

Driving Change

T1A ROOM 1

T1B ROOM 7

T1C ROOM 8

T1D ROOM 9

## Lessons Learned from Long-term Development Monitoring

Pre-, during- and post-development monitoring programs face significant challenges, such as differentiating the impacts between natural climatic variability and development-related changes. This session illustrates practical lessons learned from multiple long-term monitoring programs for subwatershed planning, stormwater facilities, and restoration projects to address those challenges associated with long-term development monitoring.

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## City of Waterloo Water Resources Monitoring Program

Jessica Kellerman  
*(City of Waterloo)*

## The Evolution of Stormwater Management Monitoring in Kitchener

Melissa Ryan  
*(City of Kitchener)*

## Upper Blair Creek Subwatershed Monitoring

Janet Ivey  
*(Grand River Conservation Authority)*

## Protecting Habitat

Habitat loss, fragmentation and degradation are considered the primary threat to biodiversity in Ontario. Building roads and changing water levels can reduce a species' chances of survival. This session will discuss how species at risk habitat is protected in Ontario and two case studies that address habitat loss.

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## Habitat Protection for Species at Risk

Sarah Robicheau  
*(Environmental Commissioner of Ontario)*

## Turtle Road Mortality: Preliminary Results of Barrier Wall Mitigation

Sheila Ziman  
*(Haliburton Highlands Land Trust)*  
and Paul Heaven  
*(Glenside Ecological Services Limited)*

## Hydrogeological and Geochemical Evaluation of the Eastern Minessing Wetland in Support of the Hine's Emerald Dragonfly

Ryan Post  
*(Nottawasaga Valley Conservation Authority)*

## There's an App for That: Real-time Data Collection and Use via Customized Mobile Applications

It has been said that information is the "new natural resource". If so, the manner in which we collect and use this information determines the value we receive from it. This session explores various mobile data applications for both collecting and sharing information efficiently.

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## Real-time Field Data Collection Tool -Collector

Kamal Paudel  
*(Credit Valley Conservation)*

## Map Cloud: Instant/Widescale Data Collection Through the Air

Andrew Avsec  
*(Haliburton Forest)*

## Smart Technology, Smart Solutions - EDGEauditor for Parks and Trails

Sean Rowe  
*(GEOaudit Inc.)*

## Navigating in a New Climate: LID Tools to Weather the Storm

This session summarizes anticipated changes in phosphorous loadings from urban areas based on projected climate changes, and presents practical tips on how to get working LID projects in the ground to mitigate these risks. Finally, a working case study is presented which showcases LID innovation.

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## Risk of Increasing P Loads

Brad Bass  
*(Environment Canada)*

## The Simple Formula For Successful LID Demo Projects!

Patrick Gilbride  
*(REEP Green Solutions)*

## LID on Regional Roads to Accommodate Climate Change and Habitat Protection

Bill Trenouth  
*(Credit Valley Conservation)*

11:00 AM – 12:30 PM

Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Lake Simcoe  
Science Forum

**T1E ROOM 2**

**T1F ROOM 11**

**T1G ROOM 18**

**T1H ROOM 15**

## Connecting Watershed Ecosystems to Human Health

**\*This session can also be watched live, online.**

This session will look at the connections between watershed ecosystems and human health in order to plan and deliver programs that recognize the connection between both. The session will look at flooding from a public health perspective, as well as explore a new tool to use indicators and GIS in order to develop management and restoration strategies that support human health.

• • •

## Public Health Adaptation to Extreme Precipitation and Flooding in the Context of Climate Change: Lessons from Four Canadian Case Studies

[Karen Morrison](#) (York University) and [Donna Churipuy](#) (Peterborough County City Health Unit)

## Connecting Ecosystem Health with Human Health in the Credit Valley Watershed

[Mike Puddister](#) (Credit Valley Conservation) and [Martin Bunch](#) (York University)

## On The Rocks, What Will Change About Our Ice?

What will the impacts of climate change be on the ice in our rivers and streams? What will change about our ice cover: thicker, thinner, earlier, later...and how will our management of ice change with our changing climate?

• • •

## Influence of Dynamic Ice Cover on River Hydraulics and Sediment Transport

[Soheil Zare](#) (University of Ottawa)

## River Ice in a Changing Climate - Ice Management on the Credit River

[David Arseneau](#) (Ecosystem Recovery Inc.) and [Jeff Wong](#) (Credit Valley Conservation)

## Lower Spencer Creek Frazil Ice Flooding: A Case Study

[Soheil Kashi](#) (AECOM)

## What's in Your E&S Plan? Achieving Successful Erosion Control Through Proper Soil and Water Management

Improvement of effective construction site erosion and sediment control can be achieved by better understanding which techniques work and which are most difficult to maintain. Learn the challenges of managing soil and water on construction sites and the strategies for successful control.

• • •

## Designing Effective ESC Plans

[Maria Parish](#) (Toronto and Region Conservation)

## Innovative Technologies for Erosion Control & Vegetative Establishment

[Steve Zwilling](#) (Quality Seeds Ltd.)

## Working with the Contractor - An Ingredient to Any Successful ESC Plan

[Jill Attwood](#) and [Robin McKillop](#) (Palmer Environmental Consulting Group)

## The State of Lake Simcoe and Its Watershed

Session sets the stage about Lake Simcoe and its watershed, providing background and current information on the state of stressors and their influence.

• • •

## Lake Simcoe Protection Plan and Progress to Date

[Carolyn Switzer](#) (Ministry of the Environment and Climate Change)

## State of Lake Simcoe and the Watershed

[Joelle Young](#) (Ministry of the Environment and Climate Change)

## Natural Heritage and Terrestrial Monitoring - Why Does It Matter

[Danijela Puric-Mladenovic](#) (Ministry of Natural Resources and Forestry)



# Day one

## TUESDAY LUNCHEON PROGRAM FEATURING LEADERSHIP AWARDS

### 1:15 PM TO 1:45 PM – LATORNELL LEADERSHIP AWARD CEREMONY

#### MASTER OF CEREMONIES:

**Peter Middleton, 2013 Latornell Leadership Award Recipient**



For over 50 years, lifelong naturalist Peter Middleton has been an outdoor education teacher, principal and guide. In those leadership roles, his knowledge of the natural world, coupled with his keen interest in education, has brought a greater understanding of the wonders of natural resources to many, young and old.

### 2015 LEADERSHIP AWARD RECIPIENTS

For further information on our 2015 award recipients please see the Latornell Leadership Awards Program which will be available at the awards luncheon



**Muriel Andreae**, London ON  
Retired Manager of Biology, St. Clair Region Conservation Authority  
President, Nature London

*Nominated by: St. Clair Region Conservation Authority*



**Ian Buchanan**, Newmarket ON  
Manager, Natural Heritage and Forestry Services

*Nominated by: York Region, Environmental Services*



**Tom Prout**, Exeter, ON  
Retired General Manager/Secretary-Treasurer - Ausable Bayfield  
Conservation Authority

*Nominated by: Ausable Bayfield Conservation Authority*



**Bob Rogers**, Sudbury, ON  
Retired Chair – Nickel District Conservation Authority and Source  
Protection

*Nominated by: Nickel District Conservation Authority*

The Latornell Conservation Symposium would like to thank  
RBC Foundation and RBC Blue Water Project for their  
commitment to the Symposium by once again being  
a Platinum Sponsor.



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Blue Water  
Project™**





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## **Municipal Risk Assessment Tool: A Tool to Help Guide Spending**

*Sally Turney*

Wednesday, November 18

The Economics of Climate  
Change Session (2–5pm)

---

## **Financial Management of Flood Risk**

*Lapo Calamai*

Thursday, November 19

Lunch Keynote (Noon–1pm)

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## **Booth 26**

*Gallery A*

Drop by and say hello.

---

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# **WATER CANADA**

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# Day one

Watershed Management

Natural Heritage

Show and Tell

Driving Change

T2A ROOM 1

T2B ROOM 7

T2C ROOM 8

T2D ROOM 9

## Development + Watershed = Impacts → Monitor → Effects

Areas undergoing development face concerns regarding a variety of cumulative impacts. This session covers lessons learned from watershed impact monitoring programs, and cumulative effects on water quantity, quality and stream health.

• • •

### Collaborative Monitoring for Cumulative Effects Assessment in Six Canadian Watersheds: Key Learnings and Implications

Janice Levangie  
*(Canadian Water Network)*

### Impacts of a Changing Landscape on Water Quality in Rural-Urban Watersheds

Andrea Kirkwood  
*(University of Ontario Institute of Technology)*

### Benthic Macroinvertebrates: A Phasing Tool Ensuring Environmental Protection Through the Development Process

Ian Ockenden  
*(Nottawasaga Valley Conservation Authority)*

## Emerging Models for Conservation of Farmland and Associated Natural Heritage in Ontario

The session will showcase new and emerging models to support sustainable agriculture on farmlands held by conservation authorities, land trusts and government, as well as innovative approaches to supporting the protection and management of Ontario farmland conservation easements on private lands.

• • •

### Introduction of New and Emerging Models for Farmland Conservation

Barb Davies  
*(The Regional Municipality of York)*

### Marrying Species at Risk and Farmland Conservation

Ron Reid  
*(Couchiching Conservancy)*

### Learnings from Ontario's First Farmland Conservation Easements

Matt Setzkorn  
*(Ontario Farmland Trust)*

## Linking Data with Decision-Makers

Getting a key piece of information in the hands of the right person at the right time is crucial to making a good decision. From tailored data collection to customized applications for querying, sharing and reporting information, this session will explore practical applications for managing data for decision-making.

• • •

### Building a Watershed Monitoring Application

David Krupicz and Dan Moore  
*(Central Lake Ontario Conservation Authority)*

### Great Lakes Aquatic Habitat Framework - A Framework Database and Tool for Aquatic Habitat Management in the Great Lakes Basin

Catherine Riseng  
*(University of Michigan)* and Kevin Wehrly  
*(Michigan Department of Natural Resources)*

### Best Practice, Best Location: GIS and Creek Walks Identify Locations for Conservation Technologies and Practices

Tracey McPherson  
*(Ausable Bayfield Conservation Authority)*

## The Environmental Bill of Rights: A Versatile Toolkit for a Changing Climate

Ontario's Environmental Bill of Rights (EBR) is a powerful toolkit for public engagement and building resilience. In this interactive session, learn how citizens have used the EBR to nudge along climate adaptation; consider the Environmental Commissioner's update on carbon emission trends, and help discuss climate data needs for adaptation work.

• • •

### Building Resilience Using the Environmental Bill of Rights

Jessica Isaac  
*(Environmental Commissioner of Ontario)*

### Feeling the Heat; Ontario's Progress on Greenhouse Gas Reductions

Ellen Schwartzel  
*(Environmental Commissioner of Ontario)*

### The Need for Reliable Climate Data for Adaptation Work

Dana Krechowicz  
*(Environmental Commissioner of Ontario)*

2:00 PM – 3:30 PM

Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Lake Simcoe  
Science Forum

T2E ROOM 2

T2F ROOM 11

T2G ROOM 18

T2H ROOM 15

## Addressing Climate Change Impacts on Human Health

**\*This session can also be watched live, online.**

This session will look at ways to increase our adaptive capacity to address the impacts of climate change on people. It will look specifically at techniques and tools used by public health units as well as specifically address issues around urban heat islands.

• • •

## Climate Change and Health Vulnerability Assessments from a Public Health Perspective

**Helen Doyle**  
*(York Region Public Health),*  
**Carol Mee**  
*(Toronto Public Health),*  
**and Marina Whelan**  
*(Simcoe-Muskoka District Health Unit)*

## Assessing Urban Heat Islands in York Region

**Mira Shnabel**  
*(York Region Public Health)*

## State-of-the-art Tools to Manage Low Flow Conditions

Low flows impact our ecosystem functions and our water supplies. This session examines several dynamic tools to address low flow conditions including water management technical and decision frameworks, improved estimations of channel coefficients, and water efficiency best practices.

• • •

## Development of a Guide for Environmental Flow Regime Design in Ontario

**Sam Bellamy**  
*(Matrix Solutions Inc.)*

## Whitemans Creek Water Budget: Balancing the Needs of Water Users

**James Etienne**  
*(Grand River Conservation Authority)*

## Low Flow Manning's "N" Calibration for Reach of the North Branch of the Thames River

**Dr. Imtiaz Shah**  
*(Upper Thames River Conservation Authority)*  
**and Nooshin Dadgar**  
*(Western University)*

## Beyond Digging a Ditch: Integrating Ecological Restoration with Agricultural Drainage

Attend this session and learn how to integrate ecological restoration opportunities into the design and maintenance of municipal drains. Three drainage experts will share their perspectives in using the Ontario Drainage Act to enhance local watercourses while ensuring landowners continue to have access to adequate drainage.

• • •

## The New (Old) Drainage Act

**Sid VanderVeen**  
*(Ministry of Agriculture, Food and Rural Affairs)*

## Beaver Creek Municipal Drain

**Brett Ruck**  
*(Drainage Investment Group)*

## Municipal Drain BMPs

**Davin Heinbuck**  
*(Ausable Bayfield Conservation Authority)*

## Managing the Lake Simcoe Watershed (Part 1)

Session discusses what we are doing and what can be done to manage the Lake Simcoe watershed in light of projected population increase and reducing phosphorus.

• • •

## Managing Growth

**Eric Miller**  
*(Consulting Economist)*

## Managing Our Urban Footprint: Implementing LID in the Lake Simcoe Watershed

**Ben Longstaff**  
*(Lake Simcoe Region Conservation Authority)*

## Phosphorus-offsetting in Lake Simcoe

**Mike Walters**  
*(Lake Simcoe Region Conservation Authority)*



# Day one

Watershed Management

Natural Heritage

Show and Tell

Driving Change

T3A ROOM 1

T3B ROOM 7

T3C ROOM 8

T3D W31\*

## How to Evaluate the Health of Our Water Bodies

Watershed biomonitoring contributes to an improved understanding of aquatic health in water bodies. This session will cover optimizing biomonitoring methods for public consumption watershed reporting, evaluating biological indicators as measures of cumulative effects and comparing and contrasting wetland health indicators.

• • •

## Coarse or Detailed ID? Determining the Best Approach to Benthic Invertebrate Identification for Biomonitoring

**Erin McGauley**  
*(Otonabee Conservation)*  
and **Brett Tregunno**  
*(Kawartha Conservation)*

## Biomonitoring Insights from the Muskoka River Watershed: Indicators and Cumulative Effects

**Chris Jones**  
*(Ministry of the Environment and Climate Change)*

## Setting Targets for Wetland Health Using Long-Term Monitoring Data

**Dan Moore and Heather Pankhurst**  
*(Central Lake Ontario Conservation Authority)*

## Biodiversity in a Changing Climate: Resilience, Adaptation and the State of Ontario's Biodiversity

The World Economic Forum's Global Risks 2015 report identifies failure to adapt to climate change and biodiversity loss as among the top 10 risks facing the world. This panel will discuss climate threats to Ontario's biodiversity and how we can work with nature to enhance climate resilience.

• • •

## Biodiversity in a Changing Climate

**Steve Hounsell**  
*(Moderator)*  
*(Ontario Biodiversity Council)*

## The State of Ontario's Biodiversity 2015 Report's Climate Change Indicators

**Amelia Argue**  
*(Ministry of Natural Resources and Forestry)*

## Using Vulnerability Assessments to Enhance Ecosystem Resilience in a Changing Climate

**Jenny Gleeson**  
*(Ministry of Natural Resources and Forestry)*

## Understanding the Role of Wetlands to Mitigate Flooding in Southern Ontario

**Alexandra Service**  
*(Ducks Unlimited Canada)*

## Enhancing Ecosystem Services: Working with Nature

**Dr. Blair Feltmate**  
*(University of Waterloo)*

## From a Distance: Remote Sensing Technologies

An intimate understanding of the natural environment is necessary in order to navigate our changing climate. This understanding often comes to us through the analysis of data collected from a number of sources. When the collection of data becomes difficult, costly or dangerous, we rely on remote sensing – the science of obtaining information about objects or areas from a distance. This session will examine various remote sensing technologies and their applications.

• • •

## The Use of Drones in Bathymetric Survey/Mapping

**Brock Kingston**  
*(Cansel)*

## The Use of GeoSAR in Elevation Mapping

**Joe Jones**  
*(Fugro Geospatial, Inc.)*

## Bringing LiDAR Data into Focus: Transforming the Way We Map

**Steve McArdle**  
*(4DM Inc.)*

## Smart Urban Planning and Development – What's the Key to Saving the Greenbelt? [Panel]

How is the GTA going to manage three million more people by 2040 without threatening the ecological, cultural and economic functions of the Greenbelt that are essential to the prosperity of the region? Hear from a panel of experts on how urban planning and development will be the trenches of the battle to save the Greenbelt.

• • •

## Moderator:

**Andrew Craig**  
*(Royal Bank of Canada)*

## How Intensification Can Help Protect the Greenbelt

**Cherise Burda**  
*(Ryerson City Building Institute)*

## The Future of Ontario's Greenbelt following Ten Years of Success

**Burkhard Mausberg**  
*(Friends of the Greenbelt Foundation)*

## The Promise and Challenge of Managing Growth to Protect the Greenbelt

**Arvin Prasad**  
*(Region of Peel)*

## Agriculture in the Greenbelt: Preservation or Perseverance?

**Keith Currie**  
*(Ontario Federation of Agriculture / Farmer)*

\*Please note session T3D has been moved and now takes place on Wednesday from 2:00 PM until 3:30 PM. The session is now known as W31.

4:00 PM – 5:30 PM

Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Lake Simcoe  
Science Forum

**T3E ROOM 2**

**T3F ROOM 9**

**T3G ROOM 18**

**T3H ROOM 15**

## Building Resiliency with Rural Communities to Adapt to the Impacts of Climate Change

**\*This session can also be watched live, online.**

This session will review new research that explores the relationship between climate change and rural populations as well as review practices and tools that can be used to build greater resiliency in rural communities for the benefit of residents.

• • •

## Healthy Rural Communities: Coping with Change and Building Strategies to Improve Public Health

Wayne Caldwell  
*(University of Guelph)*  
and Helen Doyle  
*(York Region Public Health)*

## Using Green Infrastructure as a Means to Combat Climate Change and Assist in Building Rural Community Resilience

Paul Kraehling and  
Jaime Dubyna  
*(University of Guelph)*

## Going Coastal - Changing Approaches to Best Management of Coastal Shorelines

Coastal Shorelines are on the front lines of Climate Change. How can we strengthen the resilience of the shoreline and reduce present and future hazards in these areas of high economic development pressure? Coastal experts will outline the work they are undertaking with Municipality's and CA's and discuss approaches available to better identify and map coastal hazards.

• • •

## Joint Shoreline Management Plan for Elgin County to Strengthen Coastal Resilience

Pete Zuzek  
*(Baird and Associates)*

## Coastal Hazards and Wave Runup/Overtopping

Mike Davies  
*(Coldwater Consulting Ltd.)*

## Shoreline Hazard Assessment - Changing Methodology with Changes in Technology

Alison Seidler  
*(St. Clair Region Conservation Authority)*

## Restoration in Action - Case Studies

Ecological restoration is a valuable tool for resource managers. Countless projects have resulted in improvements across the provincial landscape. This collection of case studies will showcase a broad range of rehabilitation and restoration challenges and actions to implement solutions.

• • •

## Benefiting Pollinators and Biodiversity: Utilizing Native Herbaceous Species in Afforestation Projects

Kathryn Arthur  
*(Essex Region Conservation Authority)*

## Reservoir to Wetlands: Restoring Biodiversity at Taquanyah

Crystal Allan  
*(Grand River Conservation Authority)*

## Restoring a Concrete Channel in Filsinger Park

Melissa Ryan  
*(City of Kitchener)*

## Managing the Lake Simcoe Watershed (Part 2)

This session continues discussion of what we are doing and what can be done, such as climate change, fisheries and restoring natural heritage.

• • •

## Successes in Managing the Lake Simcoe Fishery

Adam Challice and  
Gabrielle Liddle  
*(Ministry of Natural Resources and Forestry)*

## Lake Simcoe Shoreline Management Strategy

Elizabeth Stanley  
*(Ministry of Natural Resources and Forestry)*

## Preventing New Invasive Species

Brook Schryer  
*(Ontario Federation of Anglers and Hunters)*  
and Carolyn Hann  
*(Ministry of Natural Resources and Forestry)*



# Day one

## WINE AND CHEESE + CHOOSE YOUR OWN ADVENTURE EVENTS

### 5:30 PM – 7:00 PM **Latornell Exhibit Galleries Wine and Cheese**

Delegates are invited to join us for networking and ‘gnoshing’ at the Exhibitors’ Wine and Cheese Networking Reception event taking place in the Exhibitor Galleries on Tuesday, November 17<sup>th</sup> from 5:30 PM - 7:00 PM. This event is sponsored by:



### 5:30 PM – 7:00 PM **Creature Quest @ Latornell Exhibit Galleries Wine and Cheese**

Come join us in Exhibitors’ Gallery B for our annual live animal exhibit. 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.

### 7:50 PM – 8:00 PM **Wine Draw**

A limited number of ‘hot’ tickets will be available for a ‘timed sale’ at the Harvest Banquet on Tuesday, November 17<sup>th</sup>. Tickets will be \$20. The draw will take place at 7:50 PM in the Conservation Dome, and you must be present to win.

**Prize - Wine rack and Wine:** 12 bottle Wine Rack with a selection of fine Ontario wines. Winning card will be drawn by Harry Samby of Van Essen Instruments, this year’s Wine and Cheese Networking Reception Sponsor.

### 8:30 PM – 11:00 PM **CHOOSE YOUR OWN ADVENTURE**

**Following dinner on Tuesday evening delegates have a choice of activities:**

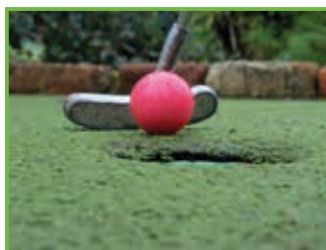
» **Continue to Mix and Mingle with Exhibitors until 10:00 PM**

Location: Exhibitors’ Galleries. Conversation supplied.

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

Meet at 8:30 PM at Hole 1 of the Jungle Quest Mini Golf course located beside the health and fitness centre registration desk.

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



Players will be organized into teams of four – 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.

» **Latornell Road Hockey**

Location: Parking lot – closest to arena. Sign in time starts at 8:30 PM - Bring your own equipment.



Lace up your shoes and come join us for the 3<sup>rd</sup> annual old fashioned street hockey game. Bring your stick, an orange safety vest, and warm clothing, and come out to the parking lot north of the arena for a bout of road hockey. No skills or skates needed!

## CHOOSE YOUR OWN ADVENTURE EVENTS CONTINUED

### » Getting to Know Single Malt Scotch

Location: Starlite lounge beginning at 8:30 PM. You will find the Starlite Lounge tucked away on the 3<sup>rd</sup> floor, past the gift shop and up the stairs. This event is sponsored by:



Do you want to learn more, know more, experience more about whisky? Whether you're a whisky novice or a seasoned enthusiast, our new Whisky Tasting at the Latornell Conservation Symposium is for you!

There are few things more enjoyable than tasting great Scotch whiskies because they have such a wide diversity of flavours. Comparing and contrasting whiskeys is also a great way to learn more about them.

LCBO Scotch Connoisseur Stuart Alford will be guiding 40 participants through a proper sampling of 6 scotch whiskies.

There is a cost of \$30 and participants are required to pre-register for this event. Registration can be found on the Latornell website or through the link provided in the early November newsletter. On-site registration can be found at the Symposium Registration Desk up to 4 PM Tuesday November 17<sup>th</sup>.



### » Movie Night

Location: Amphitheatre 1 – located beside Room 2 – 8:30 PM start.

This year, we're featuring *WEATHER GONE WILD*, directed by Melanie Wood, written by Helen Slinger and Melanie Wood, and produced by Sue Ridout for Dreamfilm Productions in association with CBC-TV.

Latornell delegates who attend the viewing of the movie will have the chance to vote on the top Weather Gone Wild Photo Contest submissions.

**Synopsis:** It's not your imagination. The weather has changed, is changing, and will continue to change. More torrential rain, more intense heat, more ice storms, more drought. It's the new normal, and we all need to immediately start adapting if we want to protect our homes and families from the destructive effects of the wild weather that is now a part of our lives.



*WEATHER GONE WILD* explores recent extreme weather events and the scientific projections of what we can expect over the next few decades: wild weather is going to become more common, and even wilder and more destructive. What can we do to protect ourselves, our families, and the towns and cities where we live?

As Blair Feltmate, University of Waterloo professor and Chair of Canada's Climate Change Adaptation Project says, "It's mission critical for the country. We have to weather-harden the system. Climate change will continue to happen. We need to figure out, what are we going to do about it?"

*WEATHER GONE WILD* answers that question with a number of practical steps Canadians can take to prepare themselves for destructive weather. Even conservative estimates show that for every dollar spent now on weather adaptation, six will be saved when damaging storms do strike.

9:00 PM – 1:00 AM

Hospitality Suite in Room 41



# Day two

Watershed  
Management

Natural Heritage

Show and Tell

Driving Change

W1A ROOM 1

W1B ROOM 18

W1C ROOM 11

W1D ROOM 9

## The Evolution of Source Protection

This session will explore the Source Protection Process and those stakeholders involved, highlight the development of risk management tools used to manage drinking water threats and provide an overview of risk management plan implementation at a municipal level.

...

## Developmental Justice: Analysis of the Drinking Water Source Protection Process In Ontario

Dr. John E. FitzGibbon  
*(University of Guelph)*

## Developing a Site-Specific Risk Management Planning Tool

Dr. Hugh Simpson  
*(University of Guelph / Ministry of Agriculture, Food and Rural Affairs)*

## Risk Management Plans - A Municipal Perspective

Tanya Kampher  
Martin  
*(York Region)*

## Species at Risk in a Changing Climate: Defining the Problem (Part 1)

This session is part 1 of a 2 part panel discussion series on climate change and species at risk that will bring together experts from the government, non-government and academic sectors to discuss the threats and proposed strategies to address climate change impacts to various Species at Risk. This first session will feature presentations on pollinators, amphibians, reptiles and polar bears followed by a facilitated panel discussion to identify common threads as well as differences across taxa and sectors.

...

## Panel Introduction & Moderator

Dr. Anne Bell  
*(Ontario Nature)*

## How Native Pollinators are Feeling the Heat

Dr. Sheila Colla  
*(York University)*

## Cool Amphibians and Hot Reptiles

Tanya Pulfer  
*(Ontario Nature)*

## The Tipping Point for Polar Bears

Dr. Marty Obbard  
*(Ministry of Natural Resources and Forestry)*

## New Thinking; New Possibilities

Every so often someone challenges us to think differently about a problem or to use a new tool or evaluation process. In this session we will hear how our presenters developed and used a new methodology that opens new possibilities for how we carry out our work.

...

## Forensicology: Towards a Diagnostic Framework for Multiple Ecosystem Stressors

Michelle Bowman  
*(Forensicology)*

## Demonstrating the Value of Social-Ecological Inventories

Susan Evans  
*(WWF Canada)*

## Understanding Organizational Identity to Better Inform Change Processes in Conservation Authorities: A Case Study of the TRCA

Alexandrina Shannon  
*(University of Waterloo)*

## The Farmer's Decision: Navigating a New Business Climate

A changing economy and a changing climate present new challenges and opportunities for farmers in Ontario. This session will consider how these changes affect how farmers manage their businesses.

...

## Measuring Sustainability in Ontario Agriculture

Harold Rudy  
*(Ontario Soil and Crop Improvement Association)*

## Agricultural Decision Support for Best Management Practices

Ian Nichols  
*(Weather INnovations Consulting)*

## Moving the Needle on Phosphorus Losses through Pay-for-Performance Conservation

Jon Winsten  
*(Winrock International)*

8:30 AM – 10:00 AM



Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Ontario Climate  
Consortium

W1E ROOM 2

W1F ROOM 8

W1G ROOM 15

W1H ROOM 7

## EcoHealth - Understanding 'Human Ecology' (Part 1)

**\*This session can also be watched live, online.**

Humans are fundamentally dependant on ecosystems for survival, yet our awareness and understanding of this crucial connection is fragmented. Current and future challenges due to the decline of rural and urban ecosystems require proactive leadership and engagement from across the spectrum of Ontario stakeholders. This first session looks at new research that clearly connects degrading environmental conditions to human health.

• • •

## The What and Why of EcoHealth Ontario

**Pegeen Walsh**  
*(Ontario Public Health Association)*  
and **Mike Puddister**  
*(Credit Valley Conservation)*

## Green Space, Health and Well-Being: A Review

**Marianne Kingsley**  
*(Toronto Public Health)*

## Green Space, Air Quality and Heat: A Review

**Tara Zupancic**  
*(David Suzuki Foundation)*

## Hydrology and Climate Change: What Do We Actually Know?

Do we have the right tools to predict flooding in a world undergoing climate change? Historical hydrologic data is widely used to understand climate trends and flood forecasting models incorporate this data to help us understand watershed processes. Is this still a valid approach?

• • •

## Empirical Trends in Hydrology with Urbanization in the Greater Toronto Region

**Mary Trudeau**  
*(Carleton University)*

## Automatic Discretization and Parameterization of Multi-land use Watersheds

**Karen Finney**  
*(Computational Hydraulics International [CHI])*

## Deep Uncertainty and Climate Change: The Need for Alternative Approaches to Impact Assessment and Decision-Making

**Scott MacRitchie**  
*(Ministry of the Environment and Climate Change)*

## Natural Channels - Design, Construction and Maintenance Considerations in a Changing Climate (Part 1)

These presentations will focus on the fundamentals of the function of natural channel systems, explain how the concept of natural channel design has evolved in Ontario and delve into considerations for urban systems and steps to consider for construction.

• • •

## Moderator

**Hazel Breton**  
*(City of Toronto)*

## Fundamentals of the Function of Natural Channel Systems

**Dr. Bryan D. Neff**  
*(Western University)*

## How the Concept of Natural Channel Design has Evolved in Ontario

**Jack G. Imhof**  
*(Trout Unlimited Canada)*

## Design Considerations in Urban Systems

**Dr. Bill Snodgrass**  
*(City of Toronto)*

## Steps to Consider in the Construction of Natural Channels

**Harry Reinders**  
*(R&M Construction)*

## Identifying the Climate Change Science, Tools and Expertise Needed by Watershed Practitioners in Ontario (Part 1)

This workshop will provide participants with enhanced understanding of available climate data and assessment tools, highlight recent advances in applied climate research, and present local examples of climate change adaptation planning in Ontario.

• • •

## Setting the Context

**Christine Tu**  
*(Toronto and Region Conservation / OCC)*

## Panel: What Data, Research and Tools Are Currently Available to Support Climate Adaptation Planning in Ontario Watersheds, and How Are These Being Applied by Practitioners?

Moderator: Ontario Climate Consortium (OCC) Staff

## What Practitioners Should Know About Climate Data in Ontario and Research Highlights

**Ryan Ness**  
*(Toronto and Region Conservation / OCC)*

## Tools Available to Support Adaptation Planning in Ontario

**Ewa Jackson**  
*(ICLEI Canada)*

## Overview of the Synthesis Report of Climate Change Vulnerability in Peel

**Mark Pajot**  
*(Region of Peel)*

## Climate Adaptation Planning in Essex Region

**John Henderson**  
*(Essex Region Conservation Authority)*



# Day two

Watershed Management

Natural Heritage

Show and Tell

Driving Change

W2A ROOM 1

W2B ROOM 18

W2C ROOM 9

W2D ROOM 8

## Salt – A Tricky Compound to Balance

This session is dedicated to the issue of the increasing levels of chloride seen in many watercourses and lakes in southern Ontario. Increasing chloride levels are associated with the use of salt to maintain roads and parking lots in winter, which creates a challenge of balancing public safety with environmental health.

• • •

## Sources and Trends in Chloride in Lake Simcoe's Tributaries

David Lembcke  
*(Lake Simcoe Region Conservation Authority)*

## Mapping Salt Vulnerable Areas in the Lake Simcoe Watershed

Bill Thompson  
*(Lake Simcoe Region Conservation Authority)*

## Smart About Salt: A Training and Certification Program for Contractors and Facility Managers

Nichole Ashton  
*(Smart About Salt Council)*

## Species at Risk in a Changing Climate: Exploring Options (Part 2)

This session is part 2 of a 2 part panel discussion series on climate change and species at risk that will bring together experts from the government, non-government and academic sectors to discuss the threats and proposed strategies to address climate change impacts to various Species at Risk. This second session will feature proposed strategies from federal, provincial and non-government agencies. A facilitated panel discussion will follow to identify common threads as well as differences across taxa and sectors with respect to emerging policy responses and management recommendations.

• • •

## Panel Introduction & Moderator

Dr. Anne Bell  
*(Ontario Nature)*

## The Climate Change Wild Card: Hedging Our Bets for Species at Risk

Graham Bryan  
*(Environment Canada)*

## Habitat, Community and Distributions: Documented Climate Change Impacts on Fishes

Dr. Cindy Chu  
*(Ministry of Natural Resources and Forestry)*

## Greenways to the Rescue

Joshua Wise  
*(Ontario Nature)*

## Fundraising: A Funders Perspective

Come and listen to 3 different funders describe the programs and their impact, what's new, what they are looking for and how to make your best application. There will be an opportunity to discuss the opportunities, but there will be no on the spot grants approved!

• • •

## RBC Bluewater Project

Cameron Miller and Shannon Robertson  
*(Royal Bank of Canada)*

## Investing for Impact: Ontario Trillium Foundation's New Investment Strategy

Thea Silver  
*(Ontario Trillium Foundation)*

## Great Lakes Guardian Community Fund

Faith Sayavong  
*(Ministry of the Environment and Climate Change)*

## Weathering Change: The Farmland Health Check-Up and Linking Soil Health and Watershed Health

The Farmland Health Check-Up identifies Best Management Practices that farmers can adopt to improve the health of their soils.

• • •

## The Farmland Health Check-Up: A New Tool for OMAFRA's Great Lakes Agricultural Stewardship Initiative

Adam Hayes  
*(Ministry of Agriculture, Food and Rural Affairs)*

## The Farmland Health Check-Up: Delivery by the Ontario Soil and Crop Improvement Association

Karen Jacobs  
*(Ontario Soil and Crop Improvement Association)*

## The Farmland Health Check-Up: Certified Crop Advisors at the Kitchen Table and in the Corn Field

Chad Anderson  
*(Anderson Agronomy Services)*

10:30 AM – 12:00 PM

Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Ontario Climate  
Consortium

W2E ROOM 2

W2F ROOM 11

W2G ROOM 15

W2H ROOM 7

## EcoHealth - Understanding 'Human Ecology' (Part 2)

**\*This session can  
also be watched live,  
online.**

Building on the growing research linking our health and wellbeing to the natural environment (as demonstrated in Part 1), this session explores the practice of ecohealth. The panel will provide a wide range of perspectives on the challenges and opportunities that agencies face in putting the science into practice and what new initiatives are being developed.

• • •

### Moderator

**Kim Gavine**  
*(Conservation Ontario)*

**Bill Kilburn**  
*(Back to Nature  
Network)*

**Helen Doyle**  
*(York Region Public  
Health)*

**Paul Ronan**  
*(Ontario Parks  
Association)*

**Mark Pajot**  
*(Region of Peel)*

**Deanna Cheriton**  
*(EcoHealth Ontario /  
Toronto and Region  
Conservation)*

## Weather on Steroids: Burlington's Nightmare

Learn about Conservation Halton's foray into forensic investigation in analyzing the storm of August 2014, the impact of the aftermath on the City of Burlington, and Amec Foster Wheeler's assistance in Burlington's on-going journey to be climate ready.

• • •

## Weathering the Storm: Burlington's Story

**Amy Mayes**  
*(Conservation Halton),*  
**Cary Clark**  
*(City of Burlington)*  
and **Aaron Brouwers**  
*(Amec Foster Wheeler)*

## Natural Channels - Design, Construction and Maintenance Considerations in a Changing Climate (Part 2)

This session will continue to present the essential considerations with a presentation for developing and implementing a maintenance plan following construction. A panel of experts will then discuss and take questions on the pitfalls, perils and successes of implementing a natural channels project.

• • •

### Moderator

**Hazel Breton**  
*(City of Toronto)*

## Panel Discussion on the Pitfalls, Perils and Successes of Implementing a Natural Channels Project

**Dr. John Beebe**  
*(Geoprocess Research)*

**Mariëtte Pushkar**  
*(Ecosystem Recovery)*

**Harry Reinders**  
*(R&M Construction)*

**Jack G. Imhof**  
*(Trout Unlimited Canada)*

**Dr. Bill Snodgrass**  
*(City of Toronto)*

**Dr. Bryan D. Neff**  
*(Western University)*

## Identifying the Climate Change Science, Tools and Expertise Needed by Watershed Practitioners in Ontario (Part 2)

Building on the information from Session W1H, this workshop will leverage participants experience and insights to provide a key contribution for the development of a research agenda to support watershed planning in Ontario in the context of climate change.

• • •

## From Research to Practice: How Important Is the Question We Ask of the Experts?

**Jim MacLellan**  
*(University of Toronto)*

## Workshop: Developing a Research Agenda to Support Watershed Planning in the Context of Climate Change

A facilitated discussion, World Café Style, with workshop participants to identify key research themes and questions



# Day two

## WEDNESDAY RBC FOUNDATION LUNCHEON PROGRAM & YCP GRADUATION CEREMONY

12:00 PM TO 1:45 PM – RBC FOUNDATION LUNCHEON  
FEATURING JAMES RAFFAN



RBC  
Foundation™

## 12:35 PM TO 12:55 PM – YOUNG CONSERVATION PROFESSIONALS PROGRAM GRADUATION CEREMONY

The Centre for Land and Water Stewardship, University of Guelph, announced the Young Conservation Professionals Leadership Program (YCP) at the 2004 Latornell Conservation Symposium. As part of the University of Guelph's Centre for Land and Water Stewardship, YCP is an intensive personal and professional development program designed to enhance the leadership and management skills of upcoming leaders in conservation and environmental fields.

The program is especially suited to agencies and organizations with limited professional development resources, limited budgets, and a pressing need for the next generation of leaders to “step-up”. The YCP leadership program takes place over the course of one calendar year and includes three three-day residential retreats and up to six practical skills workshops between the residential events. All activities are focused on developing leadership and management skills.

YCP graduation ceremonies are held during the Latornell Conservation Symposium. Since program inception in 2005, YCP has enhanced the leadership and management skills of over 190 emerging conservation leaders.

A total of 10 people will be graduating from the 2015 Young Conservation Professionals Leadership Program (YCP) this year, marking the eleventh year of the program.

For more information about YCP, please contact Andrew Kett at [andrew@ycpleadership.ca](mailto:andrew@ycpleadership.ca) or visit [www.ycpleadership.ca](http://www.ycpleadership.ca).

### The 2015 YCP program graduates are:

**Lorraine Chung**, *Evergreen*

**Diana Friesen**, *Conservation Halton*

**Logan Juffermans**, *Nottawasaga Valley Conservation Authority*

**Monique Kelemen**, *Greenest City*

**Tim Kuntz**, *Credit Valley Conservation*

**Ian McCormick**, *Farmstart*

**Hayley Paquette**, *Ontario Soil and Crop Improvement Association*

**Jenna Quinn**, *rare Charitable Research Reserve*

**Fraser Smith**, *Ganaraska Conservation*

**Brian Tress**, *Credit Valley Conservation*

KEYNOTE SPEAKER

12:55 PM TO 1:45 PM – KEYNOTE SPEAKER

**James Raffan** • Speaker, Author and Adventurer



**Dr. James Raffan** is a prolific writer, speaker, geographer and Kickass Canadian<sup>[1]</sup> who has a long association with the Canadian Canoe Museum in Peterborough, Ontario.

Over the years he has produced a number of bestselling books, including his most recent work, *Circling the Midnight Sun: Culture and change in the invisible Arctic*, which was a finalist for the 2015 BC National Non-Fiction Book Prize and named a “best book” of 2014 by the *Globe and Mail*. He has also written for media outlets including *Canadian Geographic*, *National Geographic*, *Explore*, *The Globe and Mail*, as well as for *CBC Radio* and *The Discovery Channel*. James is a Fellow International of the Explorers Club, Past Chair of the Arctic Institute of North America as well as a Fellow and Past Governor of the Royal Canadian Geographical Society, service for which he was awarded the Queen’s Golden Jubilee Medal in 2002, the RCGS Camsell Medal in 2009, and the Queen’s Diamond Jubilee Medal in 2012.

In 2015 James received an honorary doctorate from the College of Biological Sciences at University of Guelph and was named by *Canadian Geographic* magazine as one of Canada’s Top 100 Explorers. Born on the banks of the ‘mighty’ Speed River in Guelph, he now lives with his wife, Gail Simmons, on the shores of Cranberry Lake in Eastern Ontario.

<sup>[1]</sup> [www.kickasscanadians.ca/jamesraffan](http://www.kickasscanadians.ca/jamesraffan)



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[info@forestsontario.ca](mailto:info@forestsontario.ca)





# Day two

Watershed Management

Natural Heritage

Show and Tell

Driving Change

W3A LOBBY

W3B ROOM 2

W3C ROOM 7

W3D LOBBY

### Balancing Public Safety and the Environment - Salt Operations Tour

This tour will provide an introduction to some of the operational issues related to the use of salt on roads and parking lots. With site visits to a City of Barrie Operations Centre and a multi-use property managed by the Simcoe County District School Board, operators will provide an overview of the issues they need to consider in the application of salt to remove ice and snow, as well as the equipment they use, and their approach to balancing public safety with environmental protection.

• • •

**Bill Thompson and David Lembcke**  
*(Lake Simcoe Region Conservation Authority)*

### Get Adapting! Linking Climate Change Vulnerability Assessment to Adaptation Strategies in the Great Lakes Basin

Hosted by the Ministry of Natural Resources and Forestry, the first part of this workshop will include presentations on climate change vulnerability work in Great Lakes ecosystems. The second part will challenge participants to review a custom adaptation plan and discuss implementation. A final presentation will be given highlighting barriers and successes with advancing climate change action.

• • •

#### Workshop Facilitator

**Al Douglas**  
*(Ontario Centre for Climate Impacts and Adaptation Resources)*

### Aquatic Invasive Species

**Tim Johnson**  
*(Ministry of Natural Resources and Forestry)*

### Aquatic Ecosystem Habitat

**Dr. Cindy Chu**  
*(Ministry of Natural Resources and Forestry)*

### Wildlife Impacts and Terrestrial Connectivity

**Jeff Bowman**  
*(Ministry of Natural Resources and Forestry)*

### Implementing Climate Change Action

**Mark Pajot**  
*(Peel Region)*

### Multivariate Statistics 101: Ordination and Clustering

This introductory course will provide participants that have limited experience using multivariate statistics with the information and experience needed to perform analyses on biological, chemical and physical data. Participants will use ordination (e.g., PCA) and cluster analyses for summarizing habitat and biological community data as well as multivariate methods to relate habitat and biological patterns. The importance of the number of variables and their correlations in choosing the best multivariate models will also be explored using example datasets.

• • •

**Michelle Bowman**  
*(Forensecology)*

### Agricultural Water Quality: From Soil Health to Controlled Drainage [Tour]

This field tour will stop at sites in and around the Holland Marsh to highlight research projects that examine how water quality can be addressed in cropland. Dress appropriately.

• • •

#### Exploring Benefits and Feasibility of Controlled Drainage

**Jacqui Empson Laporte**  
*(Ministry of Agriculture, Food and Rural Affairs [OMAFRA])*

#### Controlled Drainage Research in the Holland Marsh

**Andrew Jamieson**  
*(OMAFRA)*

#### Healthy Soil for Healthy Watersheds

**Adam Hayes**  
*(OMAFRA)*

#### Cover Crops for Healthy Soil

**Anne Verhallen**  
*(OMAFRA)*

#### Innovations in Erosion Control to Manage Soil Loss and Establish Cover

**Cathy Wall**  
*(Quality Seeds Ltd.)*

2:00 PM – 5:00 PM

Environment,  
Economy and  
Health

Water

Protect, Restore and  
Enhance

Show and Tell

W3E ROOM 15

W3F ROOM 9

W3G LOBBY

W3H ROOM 11

## The Economics of Climate Change

This session will look at the economic implications of climate change impacts and how to address these impacts through various economic-based mechanisms and strategies.

• • •

## Using Market Mechanisms to Help Protect Ontario's Fresh Water

Natalija Fisher  
*(Environmental Defence)*

## Municipal Risk Assessment Tool: A Tool to Help Guide Spending

Sally Turney  
*(Insurance Bureau of Canada)*

## Cap-and-Trade and the Carbon Markets

Anthony D'Agostino  
*(Royal Bank of Canada)*

\*Full session description for W3I can be found in the Day 1 Tuesday 4:00 PM - 5:30 PM time slot (listed under T3D). However, please note W3I does take place on Day 2 Wednesday from 2:00 PM - 3:30 PM.

## 1D vs 2D Modeling - When, Why and How?

There is an increasing need to consider two dimensional hydraulic models for complex modeling applications. But which model works for which context? This session will present some of the reasons for two-dimensional modeling, and provide some details on a variety of available models, their pros and cons, as well as some case studies.

• • •

### Part 1 - Why 2D Models?

**Introduction on 2D Modeling Needs and Uses**  
Ferdous Ahmed  
*(Rideau Valley Conservation Authority)*

**PC-SWMM**  
Rob James *(Computational Hydraulics International [CHI])*

**Introduction to integrated 1D and 2D Hydraulic Modelling of Riverine and Urban Flooding**  
Pat Delaney *(DHI)*

**SMS Intro, and Dam Break and Flood Hazard Analysis using SMS 2D modeling in NVCA Case Study**  
Dr. Bahar SM *(AHYDTECH Geomorphic Ltd.)*

### Part 2 - Case Studies

**HEC-RAS-2D Intro & Case Study on Speed River**  
Ning Pan *(University of Guelph)*

**Delft3D Intro, and Case Study on the Lower Don**  
Alex Brunton *(Baird & Associates)*

**Mike Flood in Cobourg**  
Christie Peacock  
*(Ganaraska River Conservation Authority)*

**Spring Creek 2D Model Update: Model Development & Tools for Characterisation of Flood Conditions**  
Dilnesaw Chekol and Robert Chan *(Toronto and Region Conservation)*

## Healthy Connections: Restoration at Scanlon Creek Conservation Area [Tour]

In March 2015, LSRCA completed a major restoration project at Scanlon Creek Conservation Area in Bradford, bypassing a dam that was constructed in the early 1970's and reconnecting the creek to over 8km of its upstream reach. Learn how the restoration project was undertaken, its beneficial outcomes and how cost-saving methods integrated into the project helped to facilitate its completion. Also hear about how the project's connections to place-based Educational programming and the Friends of Scanlon Creek are providing returns for more than just the fish.

• • •

### Tour Guides

Phil Davies, Christa Sharp & Kevin Brygidyr  
*(Lake Simcoe Region Conservation Authority)*

Ken Vogan  
*(Friends of Scanlon Creek)*

Brook Piotrowski  
*(Toronto and Region Conservation)*

## Navigating the Weather: CANWARN Storm Spotter Training

CANWARN is a program of Environment Canada meteorologists to train individuals interested in assisting with storm weather monitoring. As severe weather becomes more frequent we owe it to ourselves and our staff to learn how to spot it before it comes. CANWARN members are everyday people located across Ontario who volunteer to provide real-time observations of severe weather to Environment Canada's Ontario Storm Prediction Centre in Toronto. The best and most useful training you will take all year!

• • •

Geoff Coulson  
*(Environment Canada)*

## Driving Change

W3I ROOM 19

## Smart Urban Planning and Development - What's the Key to Saving the Greenbelt? [Panel]

Andrew Craig  
*(Royal Bank of Canada)*  
Cherise Burda  
*(Ryerson City Building Institute)*  
Burkhard Mausberg  
*(Friends of the Greenbelt Foundation)*  
Arvin Prasad  
*(Region of Peel)*  
Keith Currie  
*(Ontario Federation of Agriculture / Farmer)*



# Day two

## LATORNELL GALA BANQUET EVENING

### STUDENT POSTER DISPLAYS AND COMPETITION – 5:00 PM to 7:00 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 a great 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. The event is sponsored by:



This year, a total of 20 presenters are featured. They include:

NAME	AFFILIATION	POSTER PRESENTATION
<b>Sabrina Beauchamp</b>	University of Guelph	The trends and framing techniques used by Canadian newspapers which inform the perceptions of the North American population about climate change impacts on health
<b>Emma Bowley</b>	University of Toronto	Forest regeneration in Rouge National Urban Park (RNUP): What the future may hold?
<b>Pavneet Brar</b>	University of Toronto	Comparison of pre-and post-construction characteristics of engineered bioretention media
<b>Melanie Chabot</b>	University of Guelph	Measuring agricultural surface roughness with terrestrial LiDAR
<b>Jessica Correa</b>	Trent University	Millennial attitudes and perceptions toward car ownership and car sharing
<b>Christen Dschankilic</b>	University of Toronto	Natural heritage system planning: is there more to learn?
<b>Linden Fairbairn</b>	University of Waterloo	Can grassland birds and haying practices better co-exist in Ontario?
<b>Gregory Giberson</b>	Ryerson University	Geospatial estimates of road salt usage across a gradient of urbanizing watersheds in Southern Ontario
<b>Ellen Hachborn</b>	University of Guelph	Measuring Ontario's groundwater from space
<b>Carolina Klabunde</b>	University of Guelph	Application of biosolids on agricultural fields: An investigation of pharmaceutical and nitrate concentrations in groundwater
<b>Jennifer Leslie</b>	University of Guelph	A Case Study of the Gully Creek Watershed: Understanding Farmer Nutrient Application Decisions and Beneficial Management Practices
<b>Meaghan Luis</b>	University of Guelph	Algonquin Park: The challenges of policy implementation in a multi-use park
<b>Christopher Mallon</b>	University of Guelph	Studying the cost-effectiveness of non-point source pollution control through modeling agricultural nutrient management practice adoption
<b>Cassandra Michel</b>	Carleton University	Tracer based analysis of groundwater and surface water interactions in the Jock sub-watershed, Ontario, Canada
<b>Suzanne Perry</b>	University of Toronto	Understanding the importance of including dead wood measurements in forest management plans: A case study of the Rouge National Urban Park
<b>Marisa Ramey</b>	Carleton University	Spatial interpolation and rainfall: assessing interpolation methods over the Rideau Valley Watershed
<b>Sarah Robbins</b>	Georgian College	Stormwater pond maintenance prioritization tool: Using GIS to prioritize municipal work
<b>Nafisa Sarwath</b>	University of Guelph	An institutional analysis of the Ontario's Endangered Species Act
<b>Matthew Williamson</b>	University of Guelph	The influence of wet snow conditions on the ability of a radiometer to detect the soil freeze-thaw cycle
<b>David Worden</b>	University of Guelph	Reducing peaks in drinking water demand in the City of Guelph: Estimating the potential cost savings of delaying water system capacity expansions



## LATORNELL GALA BANQUET EVENING

### DREAM AUCTION – 5:00 PM to 8:00 PM

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 are three 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
- » Card Draw for a Stand Up Paddle Board (SUP) – 1 card for \$20 (details below)

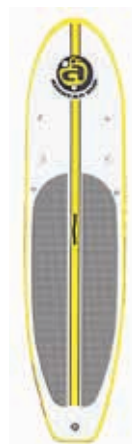
At the Silent Auction there is something for everyone! Entertainment, Family Activities, Wine, Art and Jewelry. We look forward to having you join us for an evening of fun!

#### Some of this year's items include:

- » Toronto Raptors and Toronto Maple Leafs tickets
- » Lagavulin 16 Year Old Single Scotch Whisky
- » Peter Pan in Wonderland ticket for 4 at EWG Theatre in Toronto
- » Nottawasaga Inn weekend getaway package
- » UAV Pilot Orientation and flight training
- » Long Point Eco Adventures Zipline and Canopy tour
- » Books, prints, gift cards, wine... and much more!

**Card Draw:** A special limited ticket sale of cards for \$20 each will be held Wednesday evening for an Airhead Na Pali Inflatable Stand Up Paddle Board.

What's SUP? The Stand Up Paddle Board craze is sweeping the world. It's about time you joined in the fun! AIRHEAD's inflatable SUP the best quality your money can buy. The extra rugged drop stitch construction allows a much higher air pressure than other inflatable technologies. Thousands of tiny threads connect the top and bottom layers. Consequently, it can hold 15 pounds of air pressure, more than double the working pressure of other technologies. When you're out on the water, Na Pali is rigid and will perform like a fiberglass board. A large anti-skid EVA pad provides secure -Footing. Strap your gear to the 4 D-rings up front. Three removable fins ensure straight tracking and precise maneuvering. For convenience and portability, a backpack with mesh panels is included for stowing and carrying the SUP and all accessories.



Donated by:



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.

Thank you to everyone who help make this such a success. The "Dream Auction" supports our bursary program providing financial aid to people who would not otherwise be able to attend this annual Symposium. With over **\$10,000 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 Symposium.

**Thinking of making a donation for the 2016 Symposium?** Please contact Crystal Allan (Grand River Conservation Authority) [callan@grandriver.ca](mailto:callan@grandriver.ca).



# Day two

## LATORNELL GALA BANQUET EVENING

**GALA BANQUET DINNER – 7:00 PM – 8:15 PM**

**ENTERTAINMENT – 8:30 PM – 9:30 PM**

Join us in the Conservation Dome for a night of hilarious and interactive entertainment following the Gala Banquet on Wednesday November 18<sup>th</sup>. Comedian Matt O'Brien will host the premiere episode of the LATORNELL GAME SHOW where you and your dinner companions will work as a team to answer trivia questions and test your knowledge of how the world really works! Prizes and bragging rights are what's at stake in this fun homage to TV Game Shows.



**From the Farm to the Table** is our focus for this year's meals Latornell Symposium.

In keeping with our green philosophy we have been working with the Nottawasaga Inn, our venue, to promote Ontario local food sources. The Nottawasaga Inn has been extremely helpful and has worked hard with us to ensure that many of the menu items included are Ontario locally grown produce & farm raised products. We are proud to be able to say that the Latornell Conservation Symposium Committee and the Inn will continue to provide our traditionally plentiful and varied menus, while at the same time supporting local growers and reducing our impact on the environment. Check out our Ontario local foods in our daily menus.

A special thanks to a new partner the Holland Marsh Growers' Association who is supplying local vegetables for our meals. Check out their "**Holland Marsh Growers' Market**" in the Green Gallery on the conference level.

Holland Marsh Growers' Association was recently awarded the Non-Profit Organization of the Year award by the Bradford Board of Trade. The Water Project was also nominated for the Agriculture Award.

[www.hollandmarshgold.com](http://www.hollandmarshgold.com)  
[www.hmgawater.ca](http://www.hmgawater.ca)



## 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 (formerly known as Trees Ontario), the Nottawasaga Foundation, the Nottawasaga Valley Conservation Authority, and the Symposium has planted over 34,000 trees since 2006.

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 \$5,000 grant which is matched by the Nottawasaga Foundation and provided to Forests Ontario who works with the Nottawasaga Valley Conservation Authority to plant the trees.

### LATORNELL GREEN BITES – WALKING THE TALK

The Latornell Steering Committee (SC) is doing its part to reduce our carbon footprint and combat climate change in organizing your annual Symposium:

- More and more use of teleconferences for SC meetings, subcommittee meetings and projects!
- Sharing of information, including reports, background material, meeting agendas and minutes and Symposium guidelines, between SC members using a special members' page on the website!
- Sharing ideas between SC members on a live webpad on the members' webpage!
- Implementing Symposium promotion and registration electronically!
- Promoting the electronic submission of applications for sponsors, exhibitors, grants and pioneer awards!
- Encouraging local foods to be served at all meals during the Symposium!
- Ensuring 4,000+ trees are planted annually to offset carbon dioxide emissions resulting from travel to and from the Symposium!

These efforts, and more, are helping:

- to reduce SC travel to and from meetings to organize the Symposium;
- to reduce the use of paper in our work; and,
- to accept carbon responsibility and reduce our imprint on the planet!



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# Day three

Watershed Management

Natural Heritage

Show and Tell

Driving Change

TH1A ROOM 1

TH1B ROOM 7

TH1C ROOM 8

TH1D ROOM 9

## How Resilient is Your Watershed?

Watershed Management is undergoing transformation to build resilience in response to a number of key stressors that include climate change, growth and aging infrastructure. This session will cover a number of innovative and holistic watershed assessments currently being undertaken across Ontario.

• • •

## Building Resilience for Climate Change in Rural Watersheds

Chris Van Esbroeck  
*(Maitland Valley Conservation Authority)*

## Assumptions and Limitations using Climate Model Information in Adaptation Planning: Port Credit Case Study

Glenn Milner  
*(Toronto and Region Conservation / Ontario Climate Consortium [OCC])*

## Watershed Resiliency in a Changing Climate: Grand River Water Management Plan

Stephanie Shifflett  
*(Grand River Conservation Authority)*

## Status of Brook Trout and Prospects for Resiliency in a Changing Climate

Climate Change may induce broad changes to brook trout habitat, populations, and distribution across the watersheds of the Great Lakes. This session will include presentations and a panel discussion on the current status of brook trout and a road map for future management.

• • •

## Introduction / Moderator

Rob Wilson  
*(Lake Simcoe Region Conservation Authority)*

## Brook Trout Monitoring and Declines in Credit Watershed

Phil Bird  
*(Credit Valley Conservation)*

## Brook Trout Life History

Brian Morrison  
*(Ganaraska Conservation)*

## Brook Trout Responses to Climate Change (Past, Present and Future)

Dr. Chris Wilson  
*(Ministry of Natural Resources and Forestry)*

## How Small Can Isolated Brook Trout Populations Become and Still Respond to Environmental Change?

Dylan Fraser  
*(Concordia University)*

## Panel Discussion / Moderator

Jack Imhof  
*(Trout Unlimited Canada)*

## Latonnell Mentorship Program 2015 - What's Next? Career Strategies in the Age of Chaos and Anxiety

The work world today is filled with chaos and anxiety. Individuals of all ages are struggling to find their way. In this participatory workshop, you will be exposed to key strategies that will help you to manage in these challenging times. Emphasis will be placed on building career resiliency and practical next steps. This material is especially helpful for those early in their career as well as individuals involved in career coaching and mentoring relationships.

• • •

Rob Straby  
*(Straby.com)*

## The Bald Eagle Stayed All Winter: Local Adaptive Strategies for a Global Issue

Climate change is a global issue being felt at a local level. Adaptive strategies need to take into consideration each communities understanding of the world and day to day reality. This session will explore the Ontario Centre for Climate Impacts and Adaptation Resources (OCCIAR) work with the Chippewas of Georgina Island taking into consideration traditional and cultural knowledge to develop adaptive actions.

• • •

## Communicating Climate Change to Support Mitigation and Adaptation in the Great Lakes Basin

Al Douglas  
*(Ontario Centre for Climate Impacts and Adaptation Resources [OCCIAR])*

## Climate Change Adaptation Planning with the Chippewas of Georgina Island First Nation

Kerry-Ann Charles  
*(Georgina Island First Nation)*  
and Jacqueline Richard  
*(Ontario Centre for Climate Impacts and Adaptation Resources [OCCIAR])*

8:30 AM – 10:00 AM

Communications and  
the Community

Water

Protect, Restore and  
Enhance

TH1E ROOM 2

TH1F ROOM 15

TH1G ROOM 18

## Building Relationships

We can increase our ability to adapt to climate change by working together. But Ontario has a very diverse population of people and organizations. How can we come together to take action? Connecting with a variety of audiences that includes partners, stakeholders, municipalities and residents will be key to communicating climate change messages and inspiring action.

• • •

### Building Relationships and Sharing Knowledge

**Kyle Davis**  
*(Wellington Source Water Protection)*  
and **Bronwynne Wilton**  
*(Synthesis Agri-Food Network)*

### Sharing Our Forests

**Rob Keen**  
*(Forests Ontario)*

### Friends and Neighbours (FANS)

**Jen Davidson**  
*(Conservation Sudbury)*

## Changing Climate, Changing Storage, Where Will We Put the Water?

We rely on the storage of lakes, wetlands, and stormwater management ponds, for floodplain protection, ecological flow augmentation, recreation and navigation, and municipal water intakes. What changes in storage can we expect with changing climate? Will our operations have to change, our design volumes, our reliance on storage for augmentation of downstream flows? Can we adapt?

• • •

### Wetlands and Flood Mitigation in Ontario: Natural Adaptation to a Changing Climate

**Alexandra Service**  
*(Ducks Unlimited Canada)* and  
**Mason Marchildon**  
*(Conservation Authorities Moraine Coalition)*

### Hutton Marsh: What Climate Change Means?

**Ferdous Ahmed**  
*(Rideau Valley Conservation Authority)*

### Reservoir Operations Assessment Under Evolving Climate Projections

**Paul Lehman**  
*(Mississippi Valley Conservation Authority)*

## Habitat: It's for the Birds!

Not all habitats are created equally and different species of birds require different types of natural habitat. Habitat loss and fragmentation are some of the threats that need to be addressed to reverse bird declines and maintain healthy populations. This session will present ideas for identifying, conserving, and monitoring essential habitat for bird populations.

• • •

### Important Bird Areas in Ontario – Do Conservation Authorities Have a Role to Play?

**Ted Cheskey**  
*(Nature Canada)*

### Citizen Science: Partnering Farmers, Scientists and Birds

**Hayley Paquette**  
*(Ontario Soil and Crop Improvement Association)*

### The Habitat Squeeze for Migratory Songbirds in Southern Ontario: Identifying the Stressors, Winners and Losers

**Dr. Erica Nol**  
*(Trent University)*



# Ontario

Ministry of Agriculture, Food and Rural Affairs  
is a proud supporter of the Latornell  
Conservation Symposium



# Day three

Watershed Management

Natural Heritage

Show and Tell

Driving Change

TH2A ROOM 1

TH2B ROOM 2

TH2C ROOM 11

TH2D ROOM 7

## How Resilient is Your Watershed?

Watershed Management is undergoing transformation to build resilience in response to a number of key stressors that include climate change, growth and aging infrastructure. This session will cover a number of innovative and holistic watershed assessments currently being undertaken across Ontario.

Participation in session TH1A is not required to attend session TH2A.

• • •

## From Theory to Practice: Adapting to a Changing Climate in the Mississippi-Rideau Region

Jacqueline Oblak  
*(Mississippi Valley Conservation Authority)*

## Implementation of Low Impact Development in the Upper Thames River Watershed

Dr. Imtiaz Shah  
*(Upper Thames River Conservation Authority)*  
and Xing Chai  
*(Western University)*

## Making LID Inspection and Maintenance Cheaper and Easier By Design

Dean Young  
*(Toronto and Region Conservation)*

## Urban Nature in a Changing Climate

Natural areas provide innumerable benefits to our cities and towns. However, natural areas in urban centers are under stress from a number of factors (e.g., invasive species and climate change). This session will discuss the state of urban forests and the management of urban novel ecosystems.

• • •

## State of North America's Urban Forests

Eric Davies  
*(University of Toronto)*

## Ontario's Urban Forests: A Call to Action and Provincial Engagement

Michelle Sawka  
*(Toronto and Region Conservation)*

## Management of Urban Novel Ecosystems in the City of Kitchener

Joshua Shea  
*(City of Kitchener)*

## Latornell Mentoring: Getting Started on Your Career

How do you find the right job opportunity and when you do, how do you make sure your resume gets to the top of the pile? Once you have an interview, how do you prepare and seal the deal?! In this session, a number of Latornell Mentors and others who specialize in hiring will outline ideas and tips to enhance your success.

• • •

## Finding the Job You Want

## Yes Pile Resumes Interview to Offer

## Moderator:

Deborah Martin-Downs  
*(Credit Valley Conservation)*

## Panel:

Peter Dudka  
*(Toronto and Region Conservation)*

Andrew Kett,  
Annabelle Krupp and  
Marlene Ferriera  
*(Credit Valley Conservation)*

Darryl Finnigan  
*(Ministry of Agriculture, Food and Rural Affairs)*

Gayle Wood  
*(Nottawasaga Valley Conservation Authority)*

Michael Wynia  
*(Skelton, Brumwell and Associates Inc.)*

## Engaging Private Landowners in Conservation and Stewardship

Private landowners play a critical role in conservation and environmental protection. This session will detail innovative ways of connecting people to their local environment. This session will explore a new online discussion forum, an outreach and marketing campaign to secure green space and other creative ways to unite and connect landowners in conservation.

• • •

## Facilitating Landowner Engagement and Knowledge Sharing: The Launch of an Online Discussion Forum

Shannon Lem  
*(Credit Valley Conservation)*

## Landowner Contact: Engaging the Community for Conservation

Kate Potter  
*(Orland Conservation)*

## Old Myths, New Myths: Creating a Freshwater Narrative

Lindsay Telfer  
*(Canadian Freshwater Alliance)*

10:30 AM – 12:00 PM

Communications and the Community

Water

Protect, Restore and Enhance

TH2E ROOM 8

TH2F ROOM 9

TH2G ROOM 18

**Adapting Your Communications in a New Climate [Workshop]**

This session will cover the way you communicate climate change messages to your online audience—without their eyes glazing over—by changing the way you plan, write and present your online content. By understanding how websites and online audiences have evolved, you can meet audience expectations and help them understand, accept, and act on your climate change messages.

• • •

*Alysha Dominico  
(Tangible Communications)*

**How We Measure up to Water Quality Improvement Goals**

The journey to achieving the goals of water quality improvement regulations, agreements, and common best practices, is not always a straight path. The periodic examination of whether these are reaching their mark is necessary, as you'll find out in this session.

• • •

**Science Supporting the Great Lakes Water Quality Agreement: Groundwater and Climate Change Information Needs and Gaps**

*Scott MacRitchie  
(Ministry of the Environment and Climate Change)*

**Regulated Private Water and Waste Water Systems in Ontario: Water Quality Improvement, Opportunity or Liability**

*Dr. John E. FitzGibbon  
(University of Guelph)*

**Severity, Biological Thresholds and Potential Impacts of Freshwater Stream Salinization Due to Road Salt in Toronto, Canada**

*Raymond Biastoch  
(Toronto and Region Conservation)*

**Extracting the Benefits: Rehabilitating Ontario's Pits and Quarries**

A wide range of opportunities exist for the aggregate industry to contribute to the conservation and enhancement of Ontario's biodiversity. This session explores approaches and innovative ideas that the industry is developing to rehabilitate former aggregate sites. Join industry representatives in this 90-minute session to learn more about extracting the biodiversity benefits from aggregate rehabilitation.

• • •

**Bioregional Design for Multiple Aggregate Extraction Site Rehabilitation**

*Heather Schibli  
(University of Guelph / Ontario Stone Sand & Gravel Association)*

**Aquaculture as a Tool to Enhance Aquatic Productivity and Diversity after Gravel Mining**

*Stephen May  
(CBM St Marys Cement)*

**Biodiversity Offsets: Planning for the Future, Protecting for the Present**

*Nicholas Schulz  
(Cornerstone Standards Council)*

This event is





# Day three

## KEYNOTE SPEAKER

12:30 PM TO 1:00 PM – KEYNOTE SPEAKER

**Lapo Calamai** • Director, Catastrophe Risk and Economic Analysis - Insurance Bureau of Canada



**Lapo Calamai** has several years of economic and public policy experience in the public, private and non-profit sectors. His expertise spans across several industry areas and lines of business, including insurance and reinsurance tax, solvency capital, prudential regulation, corporate governance and adaptation to climate change.

He has served as an economist and policy advisor to industry leaders, ministers and government executives in federal and provincial governments in the United Kingdom and Canada. He has contributed to federal and provincial budgets on a wide spectrum of regulatory and policy issues including financial services regulation, state and private pension policy, capital planning and public finance, public-private partnerships and infrastructure investment.

Having joined IBC in 2012, Lapo leads research, analytics and policy development to address some of the industry's most pressing financial, regulatory and commercial challenges. He also leads IBC's catastrophe risk management practice, working with governments and insurance executives across Canada to promote sound disaster risk management by leveraging risk transfer and catastrophe insurance and reinsurance solutions.



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## 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.

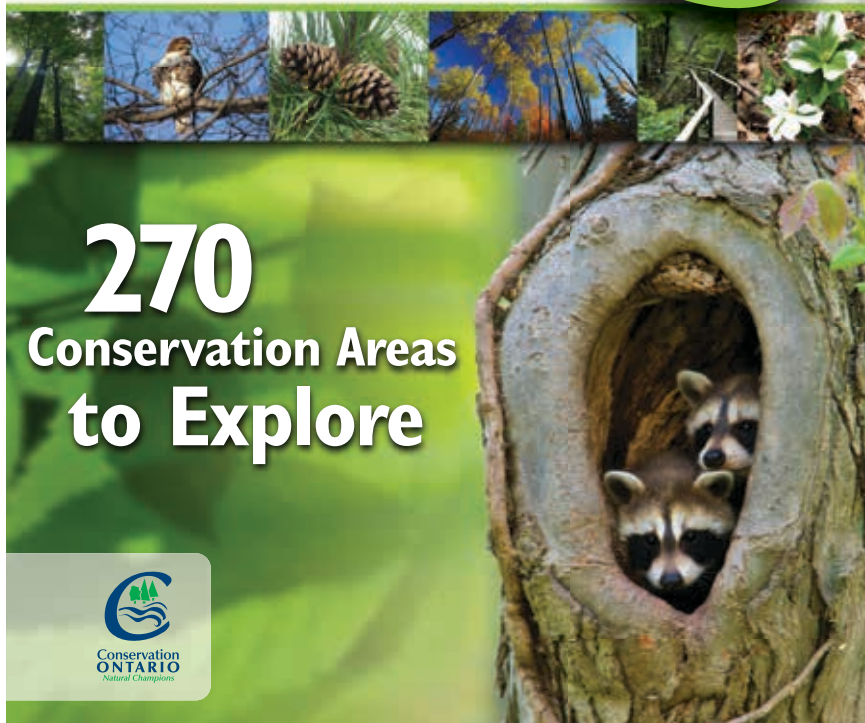
We also provide links to Exhibitors' websites where you can find more information on their products and services. Visit [www.latornell.ca](http://www.latornell.ca)

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

Just go to the Symposium website ([www.latornell.ca](http://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.



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[www.ontarioconservationareas.ca](http://www.ontarioconservationareas.ca)



# Day three

Watershed Management

Natural Heritage

Show and Tell

Driving Change

TH3A ROOM 1

TH3B ROOM 11

TH3C ROOM 7

TH3D ROOM 8

### Watershed Modeling - A Tool for Decision Making

The application of water quality models at various scales is presented in this session. Applicability to various land uses and land operations is tested to assess impacts from climate change, non-point source pollution and the use of best management practices.

• • •

### Watershed Modeling of Great Lakes Basin

**Tirupati Boliseti**  
*(University of Windsor)*

### Modelling Watershed-Derived Nutrients for Lake Ontario Inflow Considering Typical Land Operations in Southern Ontario

**Masoud Asadzadeh**  
*(University of Manitoba)*

### Place-based Modelling for Assessing Water Quantity Effects of Agricultural Management Practices

**Yongbo Liu and Wanhong Yang**  
*(University of Guelph)*

### Lesson Learned at Ostrander Point: A Recent Victory for Habitat Protection

Recently, the Prince Edward County Field Naturalists (PECFN) and Nature Canada defended an appeal to halt a proposed wind project in an Important Bird Area and Species at Risk habitat at Ostrander Point. This session will discuss lessons learned while outlining the environmental and legal aspects of the case.

• • •

### Introduction to Ostrander Point Development Opposition

**Myrna Wood**  
*(Prince Edward County Field Naturalists)*  
and **Cheryl Anderson**  
*(Prince Edward Point Bird Observatory / Prince Edward County Field Naturalists)*

### Ostrander Point: The Legal Perspective

**Eric Gillespie**  
*(Gillespie Law)*

### When is Significant Significant Enough? Birds vs. Wind Turbines – Lessons Learned During Ostrander Hearings

**Ted Cheskey**  
*(Nature Canada)*

### Construction 101

This session will provide project managers the fundamental information they need to undertake construction projects in conjunction with general and specialized contractors. An overview of how to interpret and read blueprints will be made followed by tendering and procurement considerations. The session will conclude by providing a basic understanding of key construction laws as they pertain to the management and administration of contracts.

• • •

### Blueprint Reading

**John Parish**  
*(Parish Geomorphic Ltd.)*

### Tendering/ Procurement of Contracts and Construction Management Administration

**James Dickie**  
*(Toronto and Region Conservation)*

### From Theory to Change: Engaging Communities to Make a Difference

A Little bit of education goes a long way. In this session we explore adult learning in theory and practice with a focus on education as a tool for change, including a case study focused on the Great Lakes.

• • •

### Great Lakes Partnership with School Boards: A 4 Part Vision to Engage Teachers with Their Great Lakes

**Nancy McGee**  
*(Toronto and Region Conservation)*

### Adult Education, Conservation, and Social Change

**Andrew Kett**  
*(Credit Valley Conservation)*

### Becoming Undomesticated: Engaging “Regular” People to Create Change

**Lea Ann Mallett**  
*(Coaching for an Extraordinary Life)*

1:15 PM – 2:45 PM

Communications and  
the Community

Water

Protect, Restore and  
Enhance

## TH3E ROOM 2

## TH3F ROOM 9

## TH3G ROOM 18

### Tools and Channels for Effective Communications

Adapting to the impacts of climate change and extreme weather events can be a complex and daunting task. This session will explore a variety of technological tools to support communications efforts surrounding climate change messaging. Learn more about apps for heat and air quality, powering up your PowerPoint presentations, a board game aimed at communicating climate change scenarios and social network analysis for assessing knowledge and encouraging mobilization.

• • •

### WeatherActive - An App for Communicating Heat and Air Quality Alerts

[Rich Whate](#)  
*(Toronto Public Health)*

### Optimizing Knowledge Mobilization Using Social Network Analysis

[Dr. Hugh Simpson](#)  
*(University of Guelph)*

### Innovative (but Traditional) Ways to Engage Diverse Communities in Climate Change Policies

[Dave Bray](#)  
*(Ministry of Agriculture, Food  
and Rural Affairs)*

### Power Up Your PowerPoint

[Ken Neale](#)  
*(True North Communication)*

### Surface and Groundwater Monitoring and Its Importance in a Changing Climate

Presenters will discuss lessons learned and best practices in retrofitting PGMN groundwater wells, recent enhancements to the PGMN improving the monitoring of groundwater, drought and climate change, and monitoring flows of the Mattagami River which has produced new ways to share information and support decision making arising from changing river conditions.

• • •

### Telemetrizing Groundwater in Ontario – Lessons Learned

[Sheldon Foisy](#)  
*(FTS Inc.)*

### Enhancement of the Provincial Groundwater Monitoring Network for Drought and Climate Change Monitoring

[Scott MacRitchie](#)  
*(Ministry of the Environment  
and Climate Change)*

### Enabling River Forecasting Systems within the CGDI Framework for Community and Inter-Agency Content Dissemination and Integration for the Mattagami River Basin

[Steve McArdle](#)  
*(4DM Inc.)*

### A Changing Climate for Biodiversity

There is ample evidence that climate change affects biodiversity. Conservation and restoration of degraded ecosystems will play a key role in reducing the adverse effects of climate change along with habitat and species management strategies. This session will further explore the linkages between biodiversity and climate change and the actions needed to protect, restore and enhance our natural resources.

• • •

### The Trouble Restoring Regionally Rare Plants in Light of Climate Change

[Stefan Weber](#)  
*(St. Williams Nursery & Ecology  
Centre)*

### Climate Change and Recreational Fisheries

[Dr. John Casselman](#)  
*(Queen's University)*

### A Summary of Ontario's Early Efforts to Culture at Risk Mussel Species

[Christopher Wilson](#)  
*(Ministry of Natural Resources  
and Forestry)*



# Day three

## KEYNOTE ADDRESS AND WRAP-UP

3:00 PM – 4:30 PM – KEYNOTE SPEAKER

**Bill McKibben** • [Leading Environmental Speaker, Founder of 350.org](#)



Over the past three decades, **Bill McKibben** has shaped public perception—and public action—on climate change, alternative energy, and the need for localized economies. An environmental activist, bestselling author, and “the planet’s best green journalist” (TIME), McKibben is the founder of 350.org, the massive grassroots climate change initiative.

Bill McKibben is an author and environmentalist who in 2014 was awarded the Right Livelihood Prize, sometimes called the “alternative Nobel.” His 1989 book *The End of Nature* is regarded as the first book for a general audience about climate change, and has appeared in 24 languages; he’s gone on to write a dozen more books. He is a founder of 350.org, the first planet-wide, grassroots climate change movement, which has organized 20,000 rallies around the world in every country save North Korea, spearheaded the resistance to the Keystone Pipeline, and launched the fast-growing fossil fuel divestment movement.

The Schumann Distinguished Scholar in Environmental Studies at Middlebury College and a fellow of the American Academy of Arts and Sciences, he was the 2013 winner of the Gandhi Prize and the Thomas Merton Prize, and holds honorary degrees from 18 colleges and universities. *Foreign Policy* named him to their inaugural list of the world’s 100 most important global thinkers, and the *Boston Globe* said he was “probably America’s most important environmentalist.”

A former staff writer for the *New Yorker*, he writes frequently for a wide variety of publications around the world, including the *New York Review of Books*, *National Geographic*, and *Rolling Stone*. In 2014, biologists honored him by naming a new species of woodland gnat—*Megophthalmidia mckibbeni*—in his honor.

### **Keynote address: 350: The Most Important Number in the World**

In the summer of 2007, Arctic ice began to melt far more rapidly than scientists had expected. Before the season was out, they’d begun to conclude that the earth was already moving past tipping points—that indicators, from the thawing of glaciers to the spread of droughts, showed global warming was a present crisis, not a future threat. Our leading climatologists even gave us a number for the red line: 350 parts per million CO<sub>2</sub> in the atmosphere. That’s a tough number, since we’re already past it. In this talk, Bill McKibben describes not only the science of the situation, but also the inspiring global movement that he’s led to help change the world’s understanding of its peril, and spur the reforms necessary to get the planet back to safety. McKibben’s work has crossed the boundaries of language and faith, even the gulf between rich and poor, and it makes for a vibrant, powerful talk that can lead to real change.

## LATORNELL MENTORSHIP PROGRAM

The Latornell Mentorship Program fosters opportunities for career growth and networking. This year, we are excited to announce that we have partnered with Ten Thousand Coffees, an amazing web-based platform for mentorship and networking. Ten Thousand Coffees is a Toronto-based company that supports environmental sustainability and have supported us in this partnership.



Through the generous support of Ten Thousand Coffees, anyone from the Latornell community who signs up at the VIP link below will automatically be added to a private Latornell Hub where members of the Latornell Community can connect. It's all free! What's even more exciting is that you will be able to connect with people beyond the Latornell Community in other sectors.

Join us now at <https://www.tenthousandcoffees.com/vip/latornell>



There are several mentoring activities at this year's Latornell including:

1. The **Latornell Mentorship Program booth** in the Green Gallery, where you can learn about the Program and network
2. The **Mentorship Mixer** for 2015 Mentorship Match participants from 5:30 PM -6:30 PM Tuesday (more information at the registration desk)
3. **Mentorship workshops:**  
Thursday 8:30 AM -10:00 AM (TH1C) "What's Next? Career Strategies in the Age of Chaos and Anxiety"  
Thursday 10:30 AM - 12:00 PM (TH2C) "Getting Started on Your Career"

For more information visit <https://sites.google.com/site/latornellmentorship/> and <https://www.tenthousandcoffees.com/>.

Contact us at [adlmentorship@gmail.com](mailto:adlmentorship@gmail.com) and follow us on twitter at @LatornellMentor and @10KCoffees.



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# Weathering Change

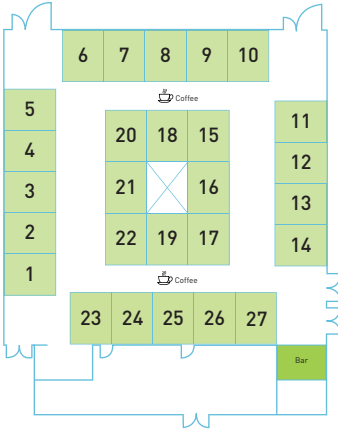
## THIS YEAR'S EXHIBITORS



# EXHIBITOR FLOORPLAN

## EXHIBITOR GALLERY A

### Crystal Ball Room



1. Environmental Commissioner of Ontario
2. Matrix Solutions Inc.
3. Ministry of Agriculture, Food and Rural Affairs
4. Ontario Soil and Crop Improvement Association
5. Winkelmolen Nursery Ltd.
6. Ducks Unlimited Canada
7. Ontario Geological Survey
8. Ministry of Natural Resources and Forestry – Climate Change
9. Forests Ontario
10. Spatial Data Infrastructure (Ministry of Natural Resources and Forestry)
11. Natural Resource Solutions Inc.
12. MMM Group
13. Hoskin Scientific Ltd.
14. Hoskin Scientific Ltd.
15. Campbell Scientific Canada Corp.
16. Hanson Pipe & Precast
17. Aquatic Informatics™ Inc.
18. Ministry of Natural Resources and Forestry
19. Forest Technology Systems (FTS)
20. GEO Morphix Ltd.
21. Water Canada
22. University of Guelph
23. KISTERS North America, Inc.
24. Ecosystem Recovery Inc.
25. Canadian Water Resources Association (CWRA)
26. Insurance Bureau of Canada
27. AHYDTECH Geomorphic Solutions Inc.

## THE GREEN GALLERY

### Between Exhibitor Gallery A & B

- I. Eco-Health Ontario
- II. Holland Marsh Growers' Association Market
- III. Latornell Mentorship Program

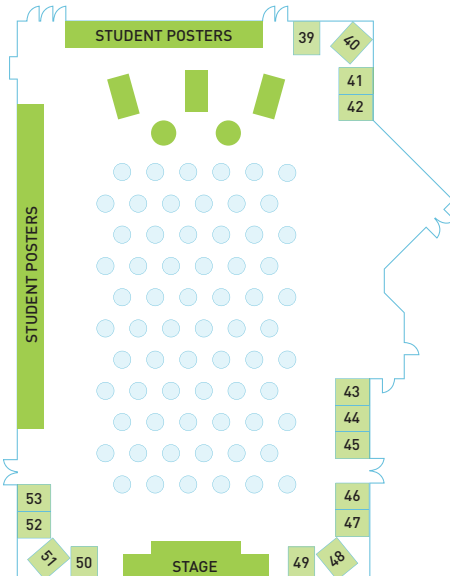
## EXHIBITOR GALLERY B

### Room 10



28. Book this booth next year!
29. Conservation Ontario
30. Holland Marsh Growers' Association Water Project
31. Verbinen's Nursery Ltd.
32. Ontario Partner Environmental Network (OPEN) Portal Project
33. Great Lakes Aquatic Habitat Framework
34. R.J. Burnside & Associates Limited / Neegan Burnside Ltd.
35. CB Shield
36. Skelton, Brumwell and Associates Inc.
37. High Eye Aerial Imaging Inc.
38. Conservation Ontario

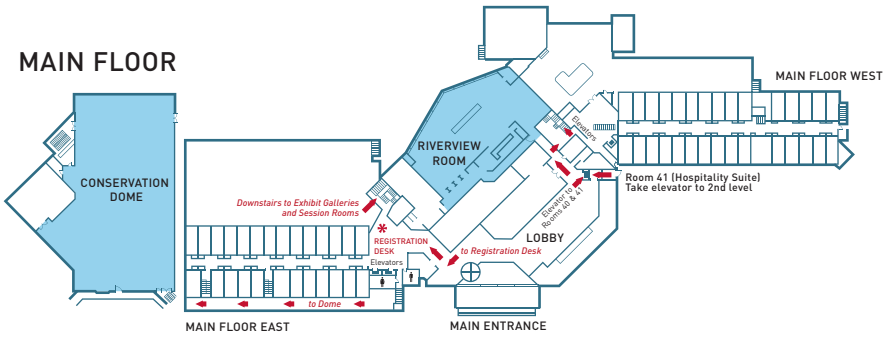
## CONSERVATION DOME



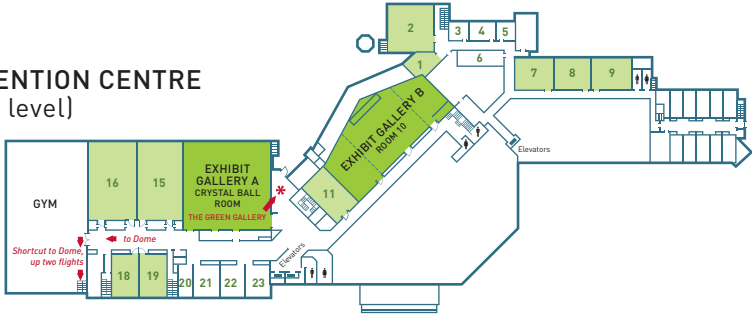
39. Book this booth next year!
40. Ministry of the Environment and Climate Change
41. Georgian College
42. Quality Seeds Ltd.
43. Book this booth next year!
44. Book this booth next year!
45. Book this booth next year!
46. Infinite Jib™ Inc.
47. Book this booth next year!
48. St. Marys River Remedial Action Plan
49. Conservation Ontario
50. Ministry of Natural Resources and Forestry – Stewardship and Conservation Incentives
51. Natural Heritage Information Centre
52. Biodiversity Education and Awareness Network
53. Book this booth next year!

# NOTTAWASAGA INN FLOORPLAN

## MAIN FLOOR



## CONVENTION CENTRE (lower level)



# SESSION INFORMATION

SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR
T1A	1	Pavneet Brar	W1A	1	Matthew Wood	TH1A	1	Pavneet Brar
T1B	7	Nafis Muntasir	W1B	18	Cynthia Cheney	TH1B	7	Carolina Klabunde
T1C	8	Jessica Correa	W1C	11	Jessica Correa	TH1C	8	Kelly Gibson
T1D	9	Jenny Hill	W1D	9	Sara Epp	TH1D	9	Emma Thompson
T1E	2	Cynthia Cheney	W1E	2	Nabil Allataifeh	TH1E	2	Jessica Correa
T1F	11	Ellen Hachborn	W1F	8	Ning Pan	TH1F	15	Jenny Hill
T1G	18	Kelly Gibson	W1G	15	Jenny Hill	TH1G	18	Ning Pan
T1H	15	Christopher Mallon	W1H	7	Christopher Mallon			
T2A	1	Ning Pan	W2A	1	Carolina Klabunde	TH2A	1	Matthew Wood
T2B	7	Kelly Gibson	W2B	18	Cynthia Cheney	TH2B	2	Nafis Muntasir
T2C	8	Nabil Allataifeh	W2C	9	Nafis Muntasir	TH2C	11	Sara Epp
T2D	9	Nafis Muntasir	W2D	8	Christopher Mallon	TH2D	7	Christopher Mallon
T2E	2	Naomi Caron	W2E	2	Kelly Gibson	TH2E	8	Naomi Caron
T2F	11	Carolina Klabunde	W2F	11	Pavneet Brar	TH2F	9	Ning Pan
T2G	18	Emma Thompson	W2G	15	Ellen Hachborn	TH2G	18	Jenny Hill
T2H	15	Matthew Wood	W2H	7	Naomi Caron			
T3A	1	Carolina Klabunde	W3A	Front Lobby	N/A	TH3A	1	Nabil Allataifeh
T3B	7	Ellen Hachborn	W3B	2	Emma Thompson	TH3B	11	Ellen Hachborn
T3C	8	Jenny Hill	W3C	7	Nafis Muntasir	TH3C	7	Pavneet Brar
			W3D	Front Lobby	N/A	TH3D	8	Kelly Gibson
T3E	2	Sara Epp	W3E	15	Jenny Hill	TH3E	2	Cynthia Cheney
T3F	9	Pavneet Brar	W3F	9	Nabil Allataifeh	TH3F	9	Emma Thompson
T3G	18	Christopher Mallon	W3G	Front Lobby	N/A	TH3G	18	Naomi Caron
T3H	15	Cynthia Cheney	W3H	11	Matthew Wood			
			W3I	19	Naomi Caron			