



# TRANSFORM *growth* & TRANSFORMATION

## 2014 PROGRAM

NOVEMBER 18-20, 2014

NOTTAWASAGA INN RESORT & CONFERENCE CENTRE  
ALLISTON, ONTARIO • [WWW.LATORNELL.CA](http://WWW.LATORNELL.CA)



**LATORNELL**  
CONSERVATION SYMPOSIUM



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# TRANSFORM<sup>E</sup> growth & TRANSFORMATION

## LATORNELL CONSERVATION SYMPOSIUM

### CONFERENCE MANAGEMENT

Chair: **Hazel Breton**, Water Resources Engineer  
Past Chair: **Deborah Martin-Downs**, Credit Valley Conservation  
Symposium Co-Coordinator: **Karen Anderson**, Allset Inc.  
Symposium Co-Coordinator & Website Coordinator: **Mario Maillet**, Allset Inc.  
Secretary: **Bill Trenouth**, University of Guelph  
Registrar: **Jane Dunning**, Conservation Ontario  
Hotel and Facilities Coordinator: **Barbara Mackenzie-Wynia**, Ontario Nature  
Ex-Officio: **Don Pearson**, Lower Thames Valley Conservation Authority  
**Dr. Stewart Hiltz**, University of Guelph

### STEERING COMMITTEE

<b>Andee Pelan</b> Lake Simcoe Region Conservation Authority	<b>John Lackey</b> Soil and Water Conservation Society - Ontario Chapter
<b>Chris Darling</b> Central Lake Ontario Conservation Authority	<b>Kendrick Doll</b> Ontario Heritage Trust
<b>Christine Schmalz</b> Ontario Soil and Crop Improvement Association	<b>Lisa Turnbull</b> Toronto and Region Conservation
<b>Crystal Allan</b> Grand River Conservation Authority	<b>Sean Watt</b> Cataract Region Conservation Authority
<b>Darryl Finnigan</b> Ministry of Agriculture, Food and Rural Affairs	<b>Shelley Macpherson</b> Rideau Valley Conservation Authority
<b>Favelle Mascke</b> Ministry of Natural Resources and Forestry	<b>Shelley McKay</b> Forests Ontario
<b>Jane Lewington</b> Conservation Ontario	<b>Tanya Kampherm Martin</b> Regional Municipality of York
<b>Jayne Crittenden</b> Conservation Ontario	

### SYMPOSIUM PARTNERS





## WELCOME – CHAIR’S MESSAGE



On the behalf of the Steering Committee, I would like to welcome you to the 21<sup>st</sup> Latornell Conservation Symposium.

Over the last few years we have experienced first hand the effects of a changing climate, economic meltdown, aging infrastructure, extreme weather, soil loss, pollution, and resource depletion through loss of biodiversity. Future environmental scans indicate that these effects will continue and we can expect increases in urban growth, water and food scarcity, degraded water quality, extreme weather, loss of biodiversity, and continued decline in overall environmental health. As practitioners in the environmental sector, it is our job to assist Ontario to learn about and further develop the science behind these conditions and to continue to build ecosystem resilience despite these challenges.

With the theme of Growth & Transformation, this year’s Symposium has been specifically geared to engage attendees to embrace both personal and professional growth and enable them to assist local communities in much needed transformative change. Symposium sessions have been set up to share concepts, ideas and tools that can empower each of us to meet the environmental needs of the future.

We have listened to the feedback received from past participants and have made changes to the Symposium to better meet the needs of the attendees. This year we are offering three (mid-week) full days of sessions, workshops, tours and panels. Each day will feature a keynote speaker that will inspire and encourage us. We have offered an increased number of grants and implemented a new registration process. Let us know through our survey how we did and feel free to suggest additional ways we can improve your experience at the Symposium.

Another new feature we started last year and will be continuing for another year is the Latornell Mentorship Program. Supporting the development of the new generation of environmental practitioners is a critical piece of the succession planning toolbox. If you haven’t participated already – particularly as a mentor – please consider doing so.

I would like to thank our sponsors and exhibitors for their support towards delivering a comprehensive three-day program. This support reveals their level of knowledge about the challenges facing us and their commitment to assist us in meeting those challenges.

I encourage you to take full advantage of all networking opportunities offered through various mixers, evening activities and interactive sessions. Students from various universities and colleges across Ontario will be participating in the Symposium as session moderators, presenters, as well as competing in the student poster competition. Our silent auction will offer up interesting items and the proceeds will again go to supporting attendance of individuals who would not otherwise be in a position to attend the Symposium.

I would also like to acknowledge the steering committee members who have worked tirelessly to bring forward a sound program, identify leaders we can all learn from, manage the granting process to allow individuals who would otherwise not be able to attend, and last but not least, those who have managed the Symposium logistics to make it all come together.

I trust that following the Symposium you feel empowered, both personally and professionally, to take action to begin to transform your local communities (offices, municipalities, businesses etc.) to meet the challenges ahead and move towards achieving a healthy and dynamic natural environment. It will take all of us working collaboratively, so let’s make it happen.

All my best

  
Hazel Breton  
Chair 2014 Latornell Conservation Symposium

# growth & TRANSFORMATION

## LATORNELL CONSERVATION SYMPOSIUM

### ARTHUR D. LATORNELL



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

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

The University of Guelph manages the A.D. Latornell Endowment Fund and provided a contribution to the 2014 Latornell Conservation Symposium



### LATORNELL LOGO



In celebration of the Symposium's 20<sup>th</sup> anniversary in 2013, the Symposium unveiled a new logo. While adopting a more modern look and colours, the logo still maintains the ancient tree symbol which represents the conservation of our natural resources. As well, 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.

### 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 to a Student and a Professional/Practitioner. 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.

Winners of this Award receive a full one year membership to SWCS, a cash award of \$600 and a one day registration to the Latornell Conservation Symposium. This year's Award recipients are **(see next page)**:





## A.D. LATORNELL AWARD OF MERIT CONTINUED

### STUDENT CATEGORY

#### **Patrick Wong, B.E.S. Candidate, Planning, University of Waterloo**

Patrick is completing his 5th and final year at the University of Waterloo's Planning program with a specialization in Land Development Planning. As an urban planning student, he enjoys learning about the creation of sustainable and livable cities. Patrick is passionate about the planning field and believes that planners can help to conserve soil and water resources through strong environmental policies and creative community design.

His goal is to continue learning about the most current best practices in natural heritage planning

and contribute to their long-term protection and enhancement. He has been fortunate to be able to put theory to practice by working with many experienced environmental planners, engineers and ecologists at both Conservation Authorities and municipal governments, gaining experience in development review and policy development. Patrick is currently on a co-op term with the City of Markham's Planning Department where he is researching best practices for urban agriculture and preparing the Natural Heritage Interface Design Guidelines.

### PROFESSIONAL/PRACTITIONER CATEGORY

#### **Kevin Tryon, C.E.T., Manager of Engineering - Development Approvals, Town of Ajax**

Kevin Tryon grew up in a small community north of Belleville where he developed an appreciation for the environment and the sensitivity of our natural habitat. He graduated from Fleming College with a Civil Engineering Technology Diploma and started his career working for a large construction company in northern Ontario. He has become a champion for stormwater management and sustainable development in the Greater Toronto Area. Due to his work for Scarborough (14 years, Urban Development Services) and Ajax (11 years, Engineering Services) which are both rapidly growing and intensifying shoreline communities, Kevin is well aware of the cumulating impacts of development on creeks, watersheds and discharges to Lake Ontario.

Kevin was key to initiating water quality studies of creeks and nearshore Lake Ontario water along the Ajax shoreline. His early studies carried out with Toronto Region Conservation Authority evolved into more complex studies funded in partnership with Durham and York Regions, and Ontario Power Generation leading to a better understanding of the Cladophora algae issue on the Ajax beaches. A dedicated practitioner, Kevin is receptive to emerging science, engineering and resource management techniques, while ensuring projects and deliverables are practical and can achieve desired results.

More specifically, Kevin developed and managed the South Ajax Water Quality Retrofit study and the Lower Carruthers Creek Flood Management project, provided technical guidance to help shape Ajax's Shoreline Improvement strategy and is currently implementing a pilot rain garden project on the waterfront. These projects have required intensive community and agency consultation and personal interaction with many residents, Council, agencies and consultants.

Kevin shares his knowledge and mentors others as a longstanding member of the Ontario Municipal Storm Water Discussion Group. He also provided his expertise to the Great Lakes St. Lawrence Cities Initiative 2011 "Stormwater Management in the Great Lakes: Cities Charting the Way Forward" report.

Kevin is passionate about stormwater management. By his hands-on participation in studies, his productivity and perseverance, and application of emerging scientific findings, Kevin displays his interest and ability in the art and science of soil and water conservation to effectively sustain Lake Ontario and improve shoreline conditions. Kevin suggests that protecting and improving Great Lakes nearshore water quality is an achievable goal likely shared by all conference attendees and the Soil and Water Conservation Society.



# Yoga

Join us for a free yoga class on Wednesday, November 19<sup>th</sup> from 7:00 AM to 7:45 AM in room 40. BYO Mats - limited number of mats will be available if you don't have your own.

## 2014 PROGRAM AT A GLANCE – DAY 1

### DAY 1 - TUESDAY, NOVEMBER 18

8:00 AM - 9:30 AM	Registration
9:30 AM - 10:45 AM	<b>Welcome, Introductions and Opening Remarks</b> » <b>Hazel Breton</b> , Symposium Chair and Master of Ceremonies » <b>Dick Hibma</b> , Chair of Conservation Ontario » <b>Keynote Speaker Adam Kahane</b>
11:00 AM - 12:30 PM	<b>Concurrent Sessions</b> Room 10A » <b>T1A:</b> Source Protection Plans: Integrating the (Geo)Science into Planning Room 4 » <b>T1B:</b> From Field to Boardroom – Survey Work Influencing Urban Conservation Room 5 » <b>T1C:</b> Open Data: An Untapped Resource [Panel] Room 10 » <b>T1D:</b> Driving Behaviour Change Room 6 » <b>T1E:</b> Our Well-being Is in Our Nature Room 18 » <b>T1F:</b> Landing the Landowner Room 19 » <b>T1G:</b> Road Ecology: The Intersection of Nature and Infrastructure Room 11 » <b>T1H:</b> Restoring Natural Heritage Systems – Lessons Learned
12:30 PM - 1:45 PM	<b>Luncheon</b> » <b>Soil and Water Conservation Society</b> , A.D. Latornell Award of Merit Presentation
2:00 PM - 3:30 PM	<b>Concurrent Sessions</b> Room 10A » <b>T2A:</b> The Highs and Lows of Groundwater Monitoring Room 4 » <b>T2B:</b> A Pragmatic Approach to Natural Heritage Systems Planning in Rural Landscapes Room 5 » <b>T2C:</b> Tools for the Rural Landscape Room 10 » <b>T2D:</b> Open up the LID and Let the Water In Room 6 » <b>T2E:</b> Urban Green – Critical for Community Health Room 18 » <b>T2F:</b> Organizing for Engagement (Workshop) Room 19 » <b>T2G:</b> Principles to Practice: Implementing Stream & Coastal Marsh Restoration Room 11 » <b>T2H:</b> Solving Tough Problems through Stakeholder Collaboration (Part 1)
3:30 PM - 4:00 PM	<b>Refreshment Break</b>
4:00 PM - 5:30 PM	<b>Concurrent Sessions</b> Room 15 » <b>T3A:</b> Changing Hydrology in a Changing Climate Room 10A » <b>T3B:</b> Going beyond the PPS: Preserving Natural Heritage with Municipal Policy Room 4 » <b>T3C:</b> Source Water Protection Modelling: What Next? Room 5 » <b>T3D:</b> All aboard the Treatment Train! Room 6 » <b>T3E:</b> EcoHealth Strategies Room 18 » <b>T3F:</b> Transforming Audience Targeting with Technology Room 19 » <b>T3G:</b> Pathways to Success: Integrating Opportunities Room 11 » <b>T3H:</b> Solving Tough Problems through Stakeholder Collaboration (Part 2)
5:30 PM - 7:00 PM	Exhibitor Galleries Wine & Cheese / Scales Nature Park live exhibit (Gallery B)
7:00 PM - 8:30 PM	Harvest Banquet Dinner
8:00 PM - 11:00 PM	<b>Chart Your Own Course Social Events &amp; Desserts in the Exhibit Halls</b> <b>See pages 19 &amp; 20 for additional details</b> » *New* - Art Lounge - Room 11 » Latornell Street Hockey - Parking lot » Movie Night - Watermark - Amphitheatre 1 » Starlite Lounge - featuring Dave Hadfield
10:00 PM - 1:00 AM	Hospitality Suite (Room 41)



## 2014 PROGRAM AT A GLANCE – DAY 2

### DAY 2 - WEDNESDAY, NOVEMBER 19

<b>7:00 AM - 7:45 AM</b>	<b>Yoga (Room 40)</b> <b>Morning Run (Meet in hotel lobby)</b>
<b>7:00 AM - 8:30 AM</b>	<b>Registration</b>
<b>8:30 AM - 10:00 AM</b>	<b>Concurrent Sessions</b> Room 15 Room 10A Room 4 Room 5 Room 6 Room 18 Room 19 Room 11 » <b>W1A:</b> What IS so Important About Headwater Streams? » <b>W1B:</b> What's in Your Water? Ecological Applications of eDNA for Species Detection and Monitoring » <b>W1C:</b> Working Collaboratively » <b>W1D:</b> Growing Food and Transforming Farms: Farmers and Environmental Stewardship » <b>W1E:</b> Does Our Economy Have a Green Future? » <b>W1F:</b> Checklist for Effective Marketing [Workshop] » <b>W1G:</b> Restoration in Action: Case Studies » <b>W1H:</b> Innovative Public Engagement
<b>10:00 AM - 10:30 AM</b>	<b>Refreshment Break</b>
<b>10:30 AM - 12:00 Noon</b>	<b>Concurrent Sessions</b> Room 10A Room 10 Room 4 Room 15 Room 5 Room 6 Room 18 Room 19 » <b>W2A:</b> Water Supply and Demand Issues » <b>W2B:</b> Exploring Methods of Monitoring and Inventorying Natural Heritage » <b>W2C:</b> Robots and Drones: The New Workforce for Conservation? » <b>W2D:</b> Is Environmental Stewardship Working? » <b>W2E:</b> Green Opportunities in the Marketplace » <b>W2F:</b> Making Environmental Connections with Kids » <b>W2G:</b> Closing the Gap: Studies Reveal the Success of Aggregate Rehabilitation in Ontario » <b>W2H:</b> Growth and Transformation through Mentorship [Workshop]
<b>12:00 Noon - 1:45 PM</b>	<b>Luncheon</b> » Young Conservationist Professional (YCP) Graduation Ceremony » Keynote Speaker <b>Ziya Tong</b>
<b>2:00 PM - 4:00 PM</b>	<b>Concurrent Sessions / Workshops / Field Trips</b> Room Lobby Room 15 Room 18 Room 10A Room 4 Room 5 Room Lobby Room 10 » <b>W3A:</b> Tour of Schomberg WPCP and WTP via Holland Marsh » <b>W3B:</b> Conserving Habitat with a Landscape Approach » <b>W3C:</b> WISKI Training [Workshop] » <b>W3D:</b> The Right Place at the Right Time: "Better" Best Management Practices for Agriculture » <b>W3E:</b> Ecosystem Approach to Farm Production [Panel] » <b>W3F:</b> Engaging New Audiences through Storytelling » <b>W3G:</b> Rock to Wetland Aggregate Tour » <b>W3H:</b> Tools and Practices for Environmental Protection in Urban Areas
<b>4:00 PM - 6:30 PM</b>	<b>Student Poster Display and Competition</b>
<b>4:00 PM - 7:00 PM</b>	<b>Dream Auction</b>
<b>6:30 PM - 9:30 PM</b>	<b>Gala Banquet</b>
<b>8:30 PM - 9:30 PM</b>	<b>The Annual Thursday Night Entertainment</b> » Drum Café
<b>10:00 PM - 1:00 AM</b>	<b>Hospitality Suite (Room 41)</b>

#### The following events take place in the Conservation Dome:

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 Thursday luncheon.

## 2014 PROGRAM AT A GLANCE – DAY 3

### DAY 3 - THURSDAY, NOVEMBER 20

<b>7:00 AM - 8:30 AM</b>	Registration
<b>8:30 AM - 10:00 AM</b>	<p><b>Concurrent Sessions</b></p> <p>Room 15 » <b>TH1A:</b> Changing Climate, How Do We Improve Our Flood Mapping?</p> <p>Room 10 » <b>TH1B:</b> Latest in Invasive Species Management: Collaborating against an Invasive Threat, Promoting Native Growth and Creating Networks</p> <p>Room 4 » <b>TH1C:</b> Weaving Your Web</p> <p>Room 5 » <b>TH1D:</b> The View from Here!</p> <p>Room 10A » <b>TH1E:</b> Natural Capital and Ecosystem Service Assessments in Ontario</p> <p>Room 6 » <b>TH1F:</b> Selling the Extreme Weather Message [Workshop Part 1]</p> <p>Room 18 » <b>TH1G:</b> SOWC: New Approaches to Watershed Monitoring in Urban and Urbanizing Watersheds</p> <p>Room 19 » <b>TH1H:</b> Building Greener Communities</p>
<b>10:00 AM - 10:30 AM</b>	Refreshment Break
<b>10:30 AM - 12:00 Noon</b>	<p><b>Concurrent Sessions</b></p> <p>Room 10A » <b>TH2A:</b> Can YOU Predict a Flood?</p> <p>Room 15 » <b>TH2B:</b> Wetlands: It Takes All Types</p> <p>Room 4 » <b>TH2C:</b> Drone Data Collection: A Practical Demonstration</p> <p>Room 5 » <b>TH2D:</b> Merging Science and Traditional Ecological Knowledge</p> <p>Room 6 » <b>TH2E:</b> Modelling for Ecosystem Services</p> <p>Room 18 » <b>TH2F:</b> Selling the Extreme Weather Message [Workshop Part 2]</p> <p>Room 19 » <b>TH2G:</b> Practical Application of Restoration Techniques</p> <p>Room 10 » <b>TH2H:</b> Creating Liveable, Resilient and Sustainable Communities</p>
<b>12:00 Noon - 2:00 PM</b>	<p><b>RBC Foundation Thursday Luncheon</b></p> <p>» Latornell Leadership Awards Presentation</p> <p>» Keynote Speaker <b>David Miller</b></p>
<b>2:15 PM - 4:30 PM</b>	<p><b>Concurrent Sessions</b></p> <p>Room 10A » <b>TH3A:</b> How to Make a Plan and Stick to It</p> <p>Room 4 » <b>TH3B:</b> Updates in Aquatic Species at Risk Protection and Recovery [Workshop]</p> <p>Room 5 » <b>TH3C:</b> Rags to Riches – The RVCA Story of Science to Stewardship</p> <p>Room 6 » <b>TH3D:</b> Growing through Partnerships</p> <p>Room 18 » <b>TH3E:</b> Biodiversity Offsetting in Ontario [Panel]</p> <p>Room 19 » <b>TH3F:</b> Strengthening Great Lakes Literacy [Panel]</p> <p>Room 15 » <b>TH3G:</b> Water and Life in Balance: Making the Ecosystem-Hydrology Connection</p> <p>Room 10 » <b>TH3H:</b> 2015 Provincial Plan Review</p>

**The following events take place in the Conservation Dome:**

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 Thursday luncheon.



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## 2014 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 250 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 one – three day or one day registration package, including conference meals, and two night's accommodations at the Nottawasaga Inn.

Individuals interested in applying for a 2015 Symposium grant are encouraged to do so at [www.latornell.ca/grant.html](http://www.latornell.ca/grant.html).

### SUCCESSFUL CANDIDATES OF THE 2014 GRANT PROGRAM

**Clara Blakelock**, *Green Communities Canada*

**Lilith Wyatt**, *Algonquin to Adirondacks Collaborative*

**Thorsten Arnold**, *Grey Bruce Centre for Agroecology*

**Kristine Hammel**, *Grey Bruce Centre for Agroecology*

**Mitch Harrow**, *York University*

**Leanne Collett**, *Nottawasaga Valley Conservation Authority*

**Jenn Head**, *Muskoka Conservancy*

**Karen Alexander**, *Lake Huron Centre for Coastal Conservation*

**Patrick Schaefer**, *Conservation Halton*

**Megan Sheremata**, *University of Toronto*

**Damilare Ogungbermide**, *Trent University*

**Qin Luo**, *University of Guelph*

**Alix Taylor**, *Green UP*

**Dorothy Taylor**, *Sacred Water Circle*

**Marika Havekes**, *South Nation Conservation Authority*

**Brittany Hope**, *Credit Valley Conservation*

**David Rainho**, *Trent University*

**Etta Gunsolus**, *Western University*

**Patti Leather**, *Rare Charitable Research Reserve*

**Jack McKee**, *University of Western Ontario*

**Melissa Williams**, *Local Enhancement & Appreciation of Forests*

**Kristen Mabee**, *TRCA*

**Chana Steinberg**, *TRCA & Rouge Park*

**Jennifer Mills**, *Georgian College*

**Aasiya Hussain**, *University of Guelph*

**Rachael Marshall**, *University of Guelph*

**Michael Woo**, *Trent University*

**Alexandra Belaskie**, *York University*

**Nishant Mistry**, *University of Guelph*

**Janice Keil**, *North American Nature Plan Society (NANPS)*



## LATORNELL MENTORSHIP PROGRAM

Looking for a new networking opportunity? Interested in becoming a mentor or mentee in the Environmental Conservation Sector of Ontario? Consider joining the Latornell Mentorship Program! This program launched last year to help connect professionals in the Environmental Conservation Sector. Whether you are just starting in your career, are well established, or are considering a change, this program will facilitate connections between professionals to share experiences, strengthen career building and help build resilience in this sector.



While at the Symposium this year drop by the Mentoring Café between the exhibit halls on the lower level and share your experiences with interested colleagues, pick up a postcard or sticker, and consider signing up to participate in Mentorship Match, an opportunity to be linked with another interested colleague for a one year commitment to act as either a mentor or mentee. We also have a Polaroid frame this year so make sure to take a selfie and share it using the hashtag #LatornellMentorship!

To learn more about the Latornell Mentorship Program and to apply for the Mentorship Match visit: [www.latornell.ca/mentorship.html](http://www.latornell.ca/mentorship.html).



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## VISITING WITH EXHIBITORS

There are two areas where delegates can visit exhibitors during the Latornell Conservation Symposium. Exhibit Halls (Gallery A and B) are located near concurrent session rooms on the lower level of the hotel. This year, there are also booths in the mentoring café, which is located in the area between Gallery A and B.

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

Over the course of the Symposium, delegates can also relax and network in a café area set up between Gallery A and B on the lower level of the Nottawasaga Inn. Wireless internet service is available. Specialty coffee and hot chocolate will be served in this area on the Tuesday.

### TUESDAY, NOVEMBER 18, 2014

8:30 AM	–	11:00 PM	Exhibit Halls Open Hours
3:30 PM	–	4:00 PM	Refreshment Break with Exhibitors
5:30 PM	–	7:00 PM	Wine and Cheese in the Exhibit Halls
8:00 PM	–	9:00 PM	Dessert in the Exhibit Halls
8:00 PM	–	11:00 PM	Mix and Mingle in the Exhibit Halls

### WEDNESDAY, NOVEMBER 19, 2014

8:30 AM	–	6:00 PM	Exhibit Halls Open Hours
10:00 AM	–	10:30 AM	Refreshment Break with Exhibitors
3:30 PM	–	4:00 PM	Refreshment Break with Exhibitors

### THURSDAY, NOVEMBER 20, 2014

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

### SPECIALITY COFFEES AT THE MENTORING CAFÉ PRESENTED BY RBC FOUNDATION

Cappuccino, Espresso and hot chocolate will be available on Tuesday at the Mentoring Café at the following times:



8:00 AM – 10:00 AM	Wake up call
5:30 PM – 7:00 PM	During the Wine and Cheese Reception
8:00 PM – 10:00 PM	During Chart your Own Course and Desserts

### SCALES NATURE PARK COMES TO LATORNELL

Tuesday, November 18th from 5:30 PM – 7:00 PM in Exhibit Hall B



Scales Nature Park, located just south of Orillia, is a facility focused on Canadian reptiles, amphibians, and fish. The park's nature trails wind through a variety of habitats, and the nature centre features the most complete

live collection of Canadian reptiles and amphibians in the country. These animals are used in hands-on educational programs on-site, and around the country- often through partnerships like the Reptiles at Risk on the Road project. Another recent project is the Georgian Bay Turtle Hospital, to be located at the south end of the park. When completed, this will be a centre for rehabilitation, stewardship, and research. Already, it has spawned a turtle research project (Saving Turtles at Risk Today) in Muskoka, which we hope to expand into the Lake Simcoe watershed. There are a lot of great things on the horizon, and our Facebook pages are a great way to keep up with what's going on!

**TUESDAY, NOVEMBER 18, 2014**

## **OPENING PLENARY SESSION**

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

**ADAM KAHANE CHAIRMAN, REOS NORTH AMERICA**



Adam Kahane is a leading organizer, designer and facilitator of processes through which business, government, and civil society leaders can work together to address their toughest challenges. He has worked in more than fifty countries, in every part of the world, with executives and politicians, generals and guerrillas, civil servants and trade unionists, community activists and United Nations officials, clergy and artists. Adam is the author of *Solving Tough Problems: An open Way of Talking, Listening, and Creating New Realities*, about which Nelson Mandela said:

"This breakthrough book addresses the central challenge of our time: finding a way to work together to solve the problems we have created." He is also the author of *Power and Love: A Theory and Practice of Social Change and Transformative Scenario*

**Planning: Working Together to Change the Future.**

In 1991 and 1992, Adam facilitated the Mont Fleur Scenario Exercise, in which a diverse group of South Africans worked together to effect the transition to democracy. Since then he has led many such seminal crosssectoral dialogue-and-action processes, throughout the world. He was one of the sixteen outstanding individuals featured in *Fast Company's* first annual "Who's Fast," and is a member of Global Business Network, the International Futures Forum, and the World Academy of Art and Science. Adam has a B.Sc. in Physics (First Class Honours) from McGill University (Montreal), an M.A. in Energy and Resource Economics from the University of California (Berkeley), and an M.A. in Applied Behavioural Science from Bastyr University (Seattle). He has also studied negotiation at Harvard Law School and cello performance at Institut Marguerite-Bourgeoys.



**Ministry of Natural Resources and Forestry,  
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is a proud supporter of the Latornell  
Conservation Symposium**



# DAY ONE

11:00 AM – 12:30 PM

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

T1A – ROOM 10A

T1B – ROOM 4

T1C – ROOM 5

T1D – ROOM 10

### Source Protection Plans: Integrating the (Geo)Science into Planning

How do Source Protection Plans stack up against other provincial policies, how will these plans affect provincial programs that are already in place and how will they be implemented at a local level? A few questions which remain to be answered.

### Vulnerable Areas: How Source Protection Mapping Stacks up to ORMCP and Other Legislation?

**Kristina Anderson**  
(Toronto and Region Conservation)

### Integrating Findings from Water Budgets into the Permit to Take Water Process

**Don Ford**  
(Toronto and Region Conservation)

### Risk Management Plans: Roles for Conservation Authorities and Municipalities

**Alison McDonald**  
(South Nation Conservation)

### From Field to Boardroom – Survey Work Influencing Urban Conservation

This session will discuss how Natural Areas Survey data is used to implement a more proactive approach to conservation within the City of Mississauga. This session will first present on the strategy, criteria and development of the City of Mississauga Natural Areas Inventory Monitoring Program. Secondly, the session will illustrate how this data is used to generate conservation solutions by prioritizing woodlot management needs.

### Development of a City Wide Natural Areas Inventory System

**Eva Kliwer**  
(City of Mississauga) and  
**Sarah Piett**  
(North-South Environmental Inc.)

### City Wide Natural Areas Inventory

**Jessica McEachren**  
(City of Mississauga)

### Open Data: An Untapped Resource [Panel]

Fueled by mounting public interest, Federal, Provincial and Municipal Government as well as private industry, have begun exploring the concept of Open Data – making certain data freely available to use and publish. Scientists, journalists, academics, developers and even private citizens are already using this newly available information in innovative ways. Come to this session and be part of an active conversation and investigate the potential and implications of Open Government and Open Data.

**James Britton**  
(Ministry of Natural Resources and Forestry)

**Bruce Chau**  
(Microsoft Canada)

**Sameer Vasta**  
(MaRS Discovery District)

**Richard Pietro**  
(The Open Government Tour 2014)

### Driving Behaviour Change

“In the end we will conserve only what we love. We will love only what we understand. We will understand only what we value.” This session will explore how to drive change towards positive engagement by tapping into the emotional and intuitive connections that drive people’s behaviour.

**Transforming Sustainability Education**  
**Lisa Roberti and Nancy McGee**  
(Toronto and Region Conservation)

**York Region Water Is Campaign: Changing the Way People Think and Feel about Water**  
**Vicki Puterbaugh**  
(York Region)

**Beyond Behaviour Change: The New Frontier**  
**Hilary Van Welter**  
(Ascentia and The Ontario Water Centre)

# TUESDAY, NOVEMBER 18, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
T1E – ROOM 6	T1F – ROOM 18	T1G – ROOM 19	T1H – ROOM 11
<p><b>Our Well-being Is in Our Nature</b></p> <p>Simply put, nature is good for us. The research has been building for some time now on confirming that our health and well-being is directly tied to the environment around us and our relationship to it. What are some of the key findings and how do we as resource managers (or users) know if we are enhancing or detracting from that relationship?</p>	<p><b>Landing the Landowner</b></p> <p>Landowner communication is paramount to increasing stewardship and conservation project implementation. This session will explore a pilot outreach plan developed by Forests Ontario as well as exploring the psychology and motivations of landowners.</p> <hr/> <p><b>Engaging Landowners - Pilot Project</b></p> <p><b>Shelley McKay</b> (Forests Ontario)</p> <p><b>Mind over Matter - Reducing Psychological Distance, Motivated Reasoning and Checking Your Own Biases</b></p> <p><b>Hassaan Basit</b> (Conservation Halton)</p>	<p><b>Road Ecology: The Intersection of Nature and Infrastructure</b></p> <p>Road ecology focuses on the interactions between road systems and the natural environment and endeavours to find ways to minimize the detrimental effects that infrastructure can have on wildlife and plant populations, air and water quality, and human communities. These sessions will explore best management practices before, during and after construction to mitigate the impacts of roads on the natural landscape.</p> <hr/> <p><b>Assessing Wildlife Movement Potential within the Central Lake Ontario Area</b></p> <p><b>Jackie Scott</b> (Central Lake Ontario Conservation Authority)</p> <p><b>Integrating Road Ecology into the Town of Oakville Transportation Processes</b></p> <p><b>Kari Gunson</b> (Eco-Kare International) and <b>Donna Doyle</b> (Town of Oakville)</p> <p><b>Turtle Road Mortality Mitigation Project</b></p> <p><b>Larry O'Connor</b> (Haliburton Highlands Land Trust) and <b>Paul Heaven</b> (Glenside Ecological Services Limited)</p>	<p><b>Restoring Natural Heritage Systems – Lessons Learned</b></p> <p>This session will discuss a unique case study involving the realignment of 4.5 km of a creek incorporating natural channel design principles, improved aquatic habitat and design elements to extend the range of Redside Dace. Three perspectives will be presented on the topic of: Restoring an Urban NHS - Lessons Learned and the Value of Collaboration.</p> <hr/> <p><b>Restoring a Natural Heritage System in an Urban Context - Lessons Learned and the Value of Collaboration</b></p> <p><b>Melanie Randolph</b> (Savanta Inc.), <b>Jason Elliott</b> (Conservation Halton) and <b>Mark Heaton</b> (Ministry of Natural Resources and Forestry)</p>
<p><b>Green Infrastructure and Health</b></p> <p><b>Steven Peck</b> (Green Infrastructure Ontario Coalition)</p> <p><b>Exploring the Relationship between Urban Natural Landscapes and Emotional and Mental Well-Being</b></p> <p><b>Emily Grant</b> (University of Waterloo)</p> <p><b>Human Well-Being, Ecosystem Services and Watershed Management in the Credit River Watershed</b></p> <p><b>Tatiana Koveshnikova</b> (Credit Valley Conservation)</p>			



# DAY ONE

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

T2A – ROOM 10A

T2B – ROOM 4

T2C – ROOM 5

T2D – ROOM 10

### **The Highs and Lows of Groundwater Monitoring**

This session will focus on the role of the Provincial Groundwater Monitoring Network in low water response, including quality concerns and just how useful groundwater monitoring data can be!

### **Quality Assurance and Quality Control for Groundwater Data**

**Steve Holыш**  
(Oak Ridges Moraine Hydrogeology Program)

### **Groundwater Monitoring for Ontario Low Water Response: A Partnership for Development and Implementation**

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

### **Uses of Groundwater Monitoring Data**

**Dr. Rick Gerber**  
(Oak Ridges Moraine Hydrogeology Program)

### **A Pragmatic Approach to Natural Heritage Systems Planning in Rural Landscapes**

The Middlesex Natural Heritage Study builds on previous work by creating a set of landscape criteria that incorporates a systems approach to assist policy development and rehabilitation initiatives. This session reviews the challenges and opportunities of meeting the requirements of the new Provincial Policy Statement for an agricultural landscape at the County level.

### **Municipal Perspectives on Meeting the PPS with the Middlesex Natural Heritage Study**

**Durk Vanderwerff**  
(County of Middlesex)

### **Watershed Perspectives on Meeting the PPS with the Middlesex Natural Heritage Study and Implementation Challenges**

**Tracy Annett**  
(Upper Thames River Conservation)

### **Science Behind the Natural Heritage Study**

**Tara Tchir**  
(Upper Thames River Conservation)

### **Tools for the Rural Landscape**

This session will look at tools and models that support the implementation of Best Management Practices (BMPs) for runoff in rural areas.

### **A New Tool for Managing Stormwater Runoff in Rural Areas**

**Alec Scott**  
(Ausable Bayfield Conservation Authority)  
**and Nandana Perera**  
(Computational Hydraulics International)

### **Economics-based Investment Decisions in Rural Non-point Source Nutrient Management**

**Ed Hanna**  
(DSS Management Consultants Inc.)

### **Developing a Place-Based Modelling Tool for Evaluating the Cost Effectiveness of Beneficial Management Practices**

**Wanhong Yang**  
(University of Guelph)

### **Open up the LID and Let the Water In**

With increasing urban development, the conversion to hard surfaces has caused countless stresses on waterways. LID's have been offered as a tool to fix these problems; however this connection is not well understood by the public. This session explores the challenges of offering a solution to a problem that many people do not even know exists.

### **Depave Paradise: Free Your Soil and Get Dirty!**

**Clara Blakelock**  
(Green Communities Canada)

### **Transforming Stormwater Management Leadership in the ICI Sectors**

**Cheryl Evans**  
(REEP Green Solutions)

### **Rain Gardens: Soak It up, Slow It down, Keep It Clean**

**Jen Atkinson**  
(Windfall Ecology)

# TUESDAY, NOVEMBER 18, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
T2E – ROOM 6	T2F – ROOM 18	T2G – ROOM 19	T2H – ROOM 11
<b>Urban Green – Critical for Community Health</b>  We know our climate is changing. It is important that we assess the risks and understand the science that connects the environment to our long term health and well-being, but then what do we do about it? How do we apply the science to adapt and get those important co-benefits? How do we get the message across to the public and decision makers that it is in our best interest to protect what we have and restore what we can?	<b>Organizing for Engagement [Workshop]</b>  Based on an extensive body of public opinion research combined with a review of best practices, this workshop introduces the Freshwater Alliance's 5-step method for developing successful public engagement programs. Gone are the days of blanket public promotions.  This workshop will introduce tips and techniques to reach beyond the choir and engage ever increasing numbers in your campaigns, programs and/or organizations and start you down the path of successful engagement planning!	<b>Principles to Practice: Implementing Stream &amp; Coastal Marsh Restoration</b>  On-going or completed restoration projects offer many valuable lessons. This session will explore three unique aquatic restoration projects from the early planning stages to post-implementation monitoring.	<b>Solving Tough Problems through Stakeholder Collaboration (Part 1)</b>  We have all had to deal with problems, conflicts and differences either personally or professionally. This session is the first of a 2 part session combined with session T3H. Learn from a globally recognized expert about a pioneering approach on how engage individuals and diverse groups of stakeholders to overcome differences.  <i>Participants should register for both Sessions T2H and T3H.</i>
<b>Climate Change and Health Vulnerability Assessment</b>  <b>Guidelines for Ontario</b> <b>Vidya Anderson</b> (Ministry of Health and Long-Term Care)  <b>Health and Well-Being Benefits of Urban Green Space</b> <b>Tara Zupancic</b> (Habitat Research)	<b>Raj Gill and Lindsay Telfer</b> (Canadian Freshwater Alliance)	<b>Brewer Park Pond Restoration Project</b> <b>Jennifer Lamoureux</b> (Rideau Valley Conservation Authority)  <b>Crook's Hollow - Dam Removal and Restoration of Spencer Creek</b> <b>Lisa Jennings</b> (Hamilton Conservation Authority)	<b>Rattnay Marsh Restoration</b> <b>Paul Biscaia</b> (Credit Valley Conservation)  <b>Adam Kahane</b> (Reos Partners)
<b>Prioritizing Plantable Areas to Grow Peel Region's Urban Forest</b> <b>Janet Wong</b> (Region of Peel)  <b>Communicating the Benefits of York Region's Urban Forest</b> <b>Barb Davies</b> (York Region) <b>and Lionel Normand</b> (Toronto and Region Conservation)	<p>Members of the <b>Ontario Network on Ecosystem Services (ONES)</b> worked with the Program Committee to develop the Symposium stream of "Environment, Economy and Health".</p> <p>ONES has as its Mission: "To help advance research and the exchange of knowledge and information related to ecosystem services with the goals of:</p> <ul style="list-style-type: none"> <li><b>(A)</b> influencing policies and programs; and</li> <li><b>(B)</b> encouraging the increased awareness and provision of these services for the benefit of society.</li> </ul> <p>It accomplishes this mission by:</p> <ul style="list-style-type: none"> <li><b>(1)</b> providing a platform for people and organizations interested in ecosystem services to work collectively;</li> <li><b>(2)</b> facilitating the exchange of knowledge and information related to ecosystem services;</li> <li><b>(3)</b> raising awareness about ecosystem services and their benefits to society; and</li> <li><b>(4)</b> identifying and acting on needs and opportunities related to the mission of the network.</li> </ul> <p>If you are interested in learning more about ONES and ecosystem services more generally, go to: <a href="http://www.onecosystemservices.ca/">http://www.onecosystemservices.ca/</a> and login to be a ONES member; it's as simple as that!</p>		



# DAY ONE

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

T3A – ROOM 15

T3B – ROOM 10A

T3C – ROOM 4

T3D – ROOM 5

### Changing Hydrology in a Changing Climate

How do we deal with hydrology, hydraulics, and stream response in our changing climate? With changing rainfall, snow events, and temperatures, stream responses are changing, and some man-made channels are being converted back to naturalized systems.

### Impacts of Climate Change on Winter Hydrology

**Trevor Dickinson**  
(School of Engineering, University of Guelph)

### Streamflow Response to Climate Change in the South Central Ontario

**Lance Aspden**  
(Lake Simcoe Region Conservation)

### Back to Nature - Replacing Concrete Channels with Naturalized Channels

**Melissa Ryan**  
(City of Kitchener)

### Going beyond the PPS: Preserving Natural Heritage with Municipal Policy

The Regional Municipality of York and the City of Guelph both exercise advanced strategies for protecting natural areas. This session outlines the different paths that led to the creation of the Natural Heritage System in Guelph and the Greening Strategy in York, the benefits the plans bring to their respective municipalities, and particularly focuses on novel land securement initiatives being conducted in York Region.

### Preserving Natural Heritage with Municipal Policy

**Barb Davies**  
(York Region)

### Going beyond the PPS: Preserving Natural Heritage with Municipal Policy

**Robert Orland**  
(Orland Conservation)

### Above and Beyond the PPS. An Enhanced Vision Natural Heritage Systems Protection in Urban Environments

**April Nix**  
(City of Guelph)

### Source Water Protection Modelling: What Next?

Following the Walkerton tragedy in 2000 the province allocated significant resources to better manage Ontario's drinking water. A significant portion of these resources has been directed to groundwater and surface water modelling. This session will explore options for the continued use of the groundwater and surface water models prepared under the Province's Source Water Protection program.

### Dusting off the Source Water Protection Models: Adaptation and Application of Existing Models to New Projects

**Michael Takeda**  
(EarthFx)

### Technical Considerations for the Path Moving Forward

**Steve Holysk**  
(Conservation Authorities Moraine Coalition)

### All aboard the Treatment Train!

Stormwater management (SWM) has become the hot-button issue of our day. Salt, excess nutrients and other contaminants get into waterways via SWM systems that fail to offer promised water quality improvements. This session explores the evolution in thinking about SWM and offers innovative solutions that drive change towards a healthier future.

### Aging Stormwater Ponds: Why We Need to Upgrade Them and Why It Won't Be Easy

**David Lembcke**  
(Lake Simcoe Region Conservation Authority)

### Rethinking Green Infrastructure Solutions for Managing Phosphorus from Non-Point Sources

**Brad Bass**  
(Environment Canada)

### Groundwater and Surface Water Vulnerability to Road Salt: Mitigation Strategies for Improved Water Resource Protection

**Bill Trenouth**  
(University of Guelph)

# TUESDAY, NOVEMBER 18, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
T3E – ROOM 6	T3F – ROOM 18	T3G – ROOM 19	T3H – ROOM 11
<b>EcoHealth Strategies</b>  Through innovative and integrated programming with strategic partners we can help change the current paradigm. Chronic disease and a changing climate put us all a greater risk. We need to think and act differently. The future can be bright given this evidence from local to international scales.	<b>Transforming Audience Targeting with Technology</b>  There are an array of tools that can be used to help outreach programs and communications to identify their target audiences. This session features three presentations which look at the use of demographics and data analysis with two Conservation Authority projects featured.	<b>Pathways to Success: Integrating Opportunities</b>  When it comes to advancing ecological restoration efforts, optimizing opportunities within guidance documents can be as important as technical or biophysical knowledge. This session will take a closer look at integrating enhancements into guidelines, policies and best management practices.	<b>Solving Tough Problems through Stakeholder Collaboration (Part 2)</b>  This session builds on session T2H and will help you gain a deeper understanding of effective responses to stakeholder conflicts or differences. Adam Kahane who has worked with international leaders to resolve conflicts will describe how to design practical responses to the challenges you face, using simple to understand concepts and widely available tools.
<b>Ecosystem Approaches to Health</b> <b>Karen Morrison</b> <i>(International Association for Ecology and Health &amp; York University)</i>	<b>Environics Analytics: Using Demographics and Psychographics for Target Marketing</b> <b>Rosa Rumeo</b> <i>(Environics Analytics)</i>	<b>Building Natural Heritage Resiliency One Crossing at a Time</b> <b>Namrata Shrestha</b> <i>(Toronto and Region Conservation)</i>	<i>Participants should register for both Sessions T2H and T3H.</i>
<b>Ontario EcoHealth Collaborative</b> <b>Helen Doyle</b> <i>(York Region Public Health)</i> <b>and Mike Puddister</b> <i>(Credit Valley Conservation)</i>	<b>Black Creek SNAP Harvest the Rain: Using Demographics to Locate and Target Participants for Program Growth</b> <b>Dr. Cathrin Winkelmann</b> <i>(Toronto and Region Conservation)</i>	<b>Shorelines that Rock: Cobble Beach Restoration on Lake Ontario</b> <b>Samantha Mason</b> <i>(Conservation Halton)</i>	<b>Adam Kahane</b> <i>(Reos Partners)</i>
<b>Being in Nature – A Prescription for Better Health</b> <b>Ashoo Anand</b> <i>(Credit Valley Conservation)</i>	<b>Location Analytics: Use of Business Analyst to Understand Visitors to Conservation Areas</b> <b>Kamal Paudel</b> <i>(Credit Valley Conservation)</i>	<b>Guiding Habitat Improvements for at Risk Fish and Mussels</b> <b>Andrew Schiedel</b> <i>(Natural Resource Solutions Inc.)</i>	



# DAY ONE

## WINE AND CHEESE + CHART YOUR OWN COURSE EVENT

### Latornell Signature Drink

Use your hospitality drink ticket to get the signature Latornell "Green Apple Martini". Your hospitality ticket can also be used for other beverages.



### 5:30 PM – 7:00 PM      **Scales Nature Park @ Latornell Exhibit Halls Wine and Cheese**

Delegates are invited to join us for networking and 'gnoshing' at the Exhibitor's Wine and Cheese event taking place in the lower level of the Nottawasaga Inn Resort & Conference Centre on Tuesday, November 18<sup>th</sup> from 5:30 PM - 7:00 PM. Desserts will be offered in the Exhibit Halls after dinner as well.

### 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 18<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 this year's Wine and Cheese Networking Reception Sponsor:



### 9:00 PM – 11:00 PM      **Chart your Course Event: "Play, Learn, Create, Move"**

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

- » **Continue to Mix and Mingle with Exhibitors until 11:00 PM**  
(Location: Exhibitor's Gallery. Conversation supplied.)
- » **Play:**  
Bring your own instrument and jam with Dave Hadfield and company in the Starlite Lounge  
(Location: Starlite Lounge is located on the 3<sup>rd</sup> floor, past the Registration area up a set of stairs - any time after 9:00 PM)
- » **Learn:**  
Catch a movie. This year we feature Watermark. A film by Jennifer Baichwal and Edward Burtynsky, awarded as the 2013 Best Canadian Feature. These world renowned artists bring together diverse stories from around the globe about our relationship with water.  
(Location: Meet in Amphitheatre 1 – located beside Room 10 – 9:00 PM start.)
- » **Create**  
Unleash Your Creative Side at the Latornell Art Lounge. Professional curators from 4Cats Art Studio will guide us through a group painting masterpiece. No art skills required!  
(Location: Room 11 – 9:00 PM start.)
- » **Move:**  
Either play or cheer for your favourite teams at the 2<sup>nd</sup> annual old fashioned street hockey game. The Stanley Cup will even make an appearance.  
(Location: Parking lot – closest to arena. Sign in time starts at 9:00 PM -Bring your own equipment.)

### 10:00 PM – 1:00 AM      **Hospitality Suite in Room 41**

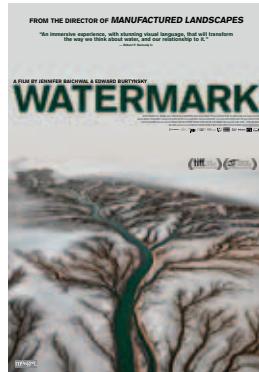
## CHART YOUR OWN COURSE DESCRIPTION

### Desserts in the Exhibit Hall

Desserts will be served in the Exhibit Hall. Continue to Mix and Mingle with Exhibitors until 11:00 PM

### Starlite Lounge

Come join us in the Starlite Lounge for a jam session with Dave Hadfield and company. This will be an informal gathering - so bring your instruments or come to listen and enjoy. The warm lighting and comfortable couches and chairs are sure to entice you to enjoy a pint, an appetizer, a song or indulge in an evening of lounging and chatting over martinis. You will find the Starlite Lounge tucked away on the 3rd floor, past the gift shop and up the stairs - starts anytime after 9:00 PM.



### Movie Night

Watermark is this year's feature film. The screening will begin at 9:00 PM. Meet in Amphitheatre 1 - located beside Room 10.

**Synopsis:** This 92 minute film brings together diverse stories from around the globe about our relationship with water: how we are drawn to it, what we learn from it, how we use it and the consequences of that use. We see massive floating abalone farms off China's Fujian coast and the construction site of the biggest arch dam in the world - the Xiluodu, six times the size of the Hoover. We visit the barren desert delta where the mighty Colorado River no longer reaches the ocean, and the water-intensive leather tanneries of Dhaka.

We witness how humans are drawn to water, from the U.S. Open of Surfing in Huntington Beach to the Kumbh Mela in Allahabad, where thirty million people gather for a sacred bath in the Ganges at the same time. We speak with scientists who drill ice cores two kilometers deep into the Greenland Ice Sheet, and explore the sublime pristine watershed of Northern British Columbia.

### Art Lounge

Enjoy a glass of wine and join Curators from 4Cats Art Studio as we collectively recreate Van Gogh's Starry Night. No previous painting experience necessary. Bring clothes that you don't mind getting paint on.



### Latornell Road Hockey

Lace up your shoes and come join us for an old fashion street hockey game.

The Latornell Road Hockey game takes place on Tuesday evening. Sign up starts at 9:00 PM. 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!



# DAY TWO

8:30 AM - 10:00 AM

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

W1A – ROOM 15

W1B – ROOM 10A

W1C – ROOM 4

W1D – ROOM 5

### What IS so Important About Headwater Streams?

Headwater streams are a very important component to their entire watershed. Hear about the details on why they are important, how to evaluate their importance, and how they have been changed across Ontario.

### Linking Headwater and Watershed Health

**Andrew McCommon**  
(Ontario Headwaters Institute)

### Identification and Assessment of Headwater Drainage Features

**Nyssa Clubine**  
(Natural Resource Solutions Inc.)

### The Hydrology of Headwaters has Changed in Ontario

**Trevor Dickinson**  
(School of Engineering, University of Guelph)

### What's in Your Water? Ecological Applications of eDNA for Species Detection and Monitoring

Environmental DNA sequencing devices have introduced a new paradigm in ecological research by alleviating the need to sample and sort individuals from a habitat. During this session, the speakers will present case studies and discuss the potential for integrating an environmental DNA (eDNA) workflow into a range of applied environmental projects.

### Biodiversity Analysis through Environmental DNA: From Microbes to Mammals

**Dr. Mehrdad Hajibabaei**  
(University of Guelph, Biodiversity Institute of Ontario)

### Application of eDNA Approaches for Detecting Jefferson Salamander in Vernal Pool Systems

**Dr. Ian King**  
(University of Guelph, Biodiversity Institute of Ontario)

### Implications for eDNA in Environmental Impact Assessment: Re-Thinking Species Detection, Monitoring, and Approaches for Ecological Restoration

**Dr. Steve Hill and Jim Dougan**  
(Dougan & Associates)

### Working Collaboratively

This session explores tools that have been developed as a result of creative partnerships and data sharing initiatives.

### Industry: Tools for Conservation

**Erin Jaggard**

(Hydro One)

### The Great Lakes Observing System: a Collaborator and Facilitator for Bi-national Collection, Management and Integration of Great Lakes Data

**Tad Slawecski**

(LimnoTech Inc., and Great Lakes Observing System)

### Using Research as a Tool to Inform Habitat Restoration Design

**Rick Portiss**

(Toronto and Region Conservation)

### Growing Food and Transforming Farms: Farmers and Environmental Stewardship

People who work for change in agricultural landscapes must constantly take the temperature and reassess their target audiences. This session will present some surprising results from research that examines these audiences and suggest some new ideas to consider when designing stewardship targeting and outreach strategies and tactics.

### Rural Landowner Behaviours and Attitudes in the Upper ThAMES River and Grand River Watersheds

**Jeff Brick**  
(Upper ThAMES River Conservation Authority)

### Landowner Preferences for Wetland Conservation Programs in the Grand and Upper ThAMES Watersheds: The Discrete Choice Method

**Ryan Trenholm**  
(Simon Fraser University)

### Farmer Attitudes about Water Use on the Farm: Now and in the Future

**John Vieira**  
(Strategic Research Associates)

# WEDNESDAY, NOVEMBER 19, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
W1E – ROOM 6	W1F – ROOM 18	W1G – ROOM 19	W1H – ROOM 11
<b>Does Our Economy Have a Green Future?</b>  A sustainable future, where we maintain our (natural) capital assets, requires a new way of thinking about how we manage our environment. Our traditional economic models result in increasing the GDP while adversely affecting our environment and community well-being. These presentations will highlight how we need to re-frame our relationship with our natural resources.	<b>Checklist for Effective Marketing [Workshop]</b>  In this workshop, we take a common sense approach to effective marketing. We discuss proven marketing strategies and the importance of building a strong and clear message in your advertising.  <b>Linda Hilton and Sarah Manielly</b> ( <i>Galigraph Design</i> )	<b>Restoration in Action: Case Studies</b>  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 the actions to implement solutions.	<b>Innovative Public Engagement</b>  Learn how the Ontario Science Centre engages the public to make learning about the environment fun and interactive, how Ducks Unlimited has developed a strategy to engage the youth and how the Neptis Foundation has engaged the public with complex information in a meaningful web based approach.
<b>Post-Growth Economics for Ontario</b> <b>Eric Miller</b> ( <i>Consulting Economist</i> )  <b>Building Canada's Clean Economy</b> <b>Keith Brooks</b> ( <i>Environmental Defence</i> )  <b>Recognizing and Fostering the Provision of Ecosystem Services by Private Landowners – Views from the Land</b> <b>Elizabeth Holmes</b> ( <i>University of Guelph</i> )	  <b>Nigel Finney</b> ( <i>Conservation Halton</i> )  <b>Big Block Habitat Restoration at Luther Marsh Wildlife Management Area</b> <b>Kevin Tupman</b> ( <i>Grand River Conservation Authority</i> )  <b>The Durham Region Coastal Wetland Monitoring Project: Making the Connection from Monitoring to Management</b> <b>Heather Pankhurst</b> ( <i>Central Lake Ontario Conservation Authority</i> )	  <b>Restoring North Oakville's Natural Heritage Systems at Glenorchy Conservation Area</b> <b>Mary Jane Conboy</b> ( <i>Ontario Science Centre</i> )  <b>New Passionate Voices: Encouraging Youth to Speak Up for Conservation</b> <b>Krystal Hewitt</b> ( <i>Ducks Unlimited Canada</i> )  <b>Neptis Geoweb: Engagement by Visualization</b> <b>Marcy Burchfield</b> ( <i>Neptis Foundation</i> )	

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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# DAY TWO

10:30 AM – 12:00 PM

## Watershed Management

W2A – ROOM 10A

## Natural Heritage

W2B – ROOM 10

## Tools and Technology

W2C – ROOM 4

## Driving Change

W2D – ROOM 15

### Water Supply and Demand Issues

What do you do when you've got some water, and someone else wants, or needs it? How do you divide it up, and how do you ensure that everyone gets a fair share?

### Comparative Evaluation of the Water Taking Permit and Compliance Management System in ON, Canada & Gansu, China

**Xiao (Shaunna) Zhang**  
(University of Guelph)

### Estimating Ontario's Water Withdrawals and Consumption in the Great Lakes Basin

**Lisai Shen**  
(Ministry of the Environment and Climate Change)

### Innisfil Creek Drought Management Pilot Project

**Ryan Post**  
(Nottawasaga Valley Conservation Authority)

### Exploring Methods of Monitoring and Inventorying Natural Heritage

This session examines three strategies for monitoring natural heritage in Southern Ontario, as outlined in the Credit Valley Conservation's redesigned Integrated Watershed Monitoring Program, the Toronto and Region Conservation Authority's Terrestrial Biodiversity Monitoring Report, and the Carolinian Canada Coalition's Elgin Natural Heritage Inventory. Study design optimizing long-term data and public participation are discussed.

### Integrated Monitoring: A Fresh Approach to a Long-Term Monitoring Program

**Loveleen Clayton**  
(Credit Valley Conservation)

### Assessing Terrestrial Biodiversity in the Toronto Region

**Theresa McKenzie**  
(Toronto and Region Conservation)

### The Elgin Natural Heritage Inventory

**Sarah Hodgkiss**  
(Carolinian Canada Coalition)

### Robots and Drones: The New Workforce for Conservation?

New technology to assist in information collection is becoming more readily available and affordable. This session will showcase a few products that are available. No need to panic - robots are not taking over your job...yet!

### Better Information Starts with Better Data - High Quality Water Data Using Robots

**Andrew Blakey**  
(Echostream Inc.)

### Replacing Expensive Data Collection Methods Using Cutting Edge Technologies

**Brock Kingston**  
(Cansel Inc.)

### Capturing Local Area LiDAR with a Portable Station

**Francis Nepveu**  
(Northern Survey Supply)

### Is Environmental Stewardship Working?

Conservation Authorities, academics, municipalities, government agencies, and NGOs spend a lot of time, effort, and money fostering environmental stewardship. This session will examine three different ways to help answer this question "Is it working?"

### Assessing Beneficial Management Practices to Reduce Phosphorus in a Small Watershed

**Andrew Sinclair**  
(Stantec)

### Best Management Practices Evaluation in an Agricultural Watershed

**Mari Veliz**  
(Ausable Bayfield Conservation Authority)

### Key Performance Indicators for Best Management Practices

**Phil Davies**  
(Lake Simcoe Region Conservation Authority)

# WEDNESDAY, NOVEMBER 19, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
W2E – ROOM 5	W2F – ROOM 6	W2G – ROOM 18	W2H – ROOM 19
<b>Green Opportunities in the Marketplace</b>  Sometimes an opportunity requires us to rethink our traditional approaches or to really think outside our traditional boxes. These presentations illustrate how we can turn our current approaches into winning green solutions!	<b>Making Environmental Connections with Kids</b>  Whether the focus is climate change or watersheds, Conservation Authorities and their partners are piloting new multi-media programs to engage and inspire students to explore and address the impacts of today's environmental issues.	<b>Closing the Gap: Studies Reveal the Success of Aggregate Rehabilitation in Ontario</b>  Aggregate companies are endeavouring to create positive landscape change through their mining operations and site rehabilitation plans. The goal of aggregate site rehabilitation is to restore the land to its former state or an alternative, compatible condition that can achieve ecological, social, and/or economic objectives. Attend this session to learn about the successes of aggregate site rehabilitation in Ontario.	<b>Growth and Transformation through Mentorship [Workshop]</b>  Tackling environmental issues can sometimes seem overwhelming to those who are just starting their careers. Mentorship can help provide the experience and knowledge to take them on. This workshop will benefit both those starting their careers and those who are well established and will build upon the Latornell Mentorship Program. A focus on mentorship skills and the importance of encouraging and engaging in intergenerational learning will be presented in an interactive format.
<b>Timber Stalks or Gold Stocks, Can You Make Your Forest Pay?</b> <b>Chris Gynan</b> ( <i>Silv-Econ</i> )	<b>Water Docs @ School</b> <b>Stan Gibson and Bob Isenberger</b> ( <i>Ecologos</i> )	<b>Climate Change in My Watershed</b> <b>Paul Lehman</b> ( <i>Mississippi Valley Conservation Authority</i> ) <b>and Gordon Harrison</b> ( <i>Green Learning Canada</i> )	<b>Reality Check: The Final Rehabilitation of Ontario's Pits and Quarries</b> <b>Caitlin Port</b> ( <i>Skelton Brumwell &amp; Associates</i> )
<b>Green Opportunities in the Marketplace</b> <b>Robert Orland</b> ( <i>Orland Conservation</i> ) <b>and Erik Lees</b> ( <i>LEES + Associates Landscape Architects</i> )	<b>Bird-Friendly Certified Hay Program</b> <b>Mark Eastman</b> ( <i>Credit Valley Conservation</i> )	<b>From Aggregate to Agriculture: The State of Farmland Rehabilitation in Ontario</b> <b>Caroline Dykstra</b> ( <i>The Ontario Aggregate Resources Corporation</i> )	<b>Dr. Seanna Davidson</b>
		<b>After the Gravel: Blending Rehabilitated Pit and Quarry Sites into the Landscape Mosaic</b> <b>Stephen May</b> ( <i>CBM St Marys Cement</i> )	



# DAY TWO

## WEDNESDAY LUNCHEON PROGRAM + YCP GRADUATION CEREMONY

### 12:30 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 180 emerging conservation leaders.

A total of 16 people will be graduating from the 2014 Young Conservation Professionals program this year, marking the tenth year of the program.

For more information about YCP, please contact Andrew Kett at [andrew@ycpleadership.ca](mailto:andrew@ycpleadership.ca) or Peter Mitchell at [mitchelp@uoguelph.ca](mailto:mitchelp@uoguelph.ca). You can also visit YCP online at [www.ycpleadership.ca](http://www.ycpleadership.ca) to find more details about applying for 2015.

#### **The 2014 YCP program graduates are:**

**Chloe Brown**, *Greenbelt Foundation*

**Diana Wilson**, *Toronto Botanical Garden*

**Jay Adam**, *Farms at Work*

**Jeff Sharp**, *St. Clair Region Conservation Authority*

**Jenn Head**, *Muskoka Conservancy*

**Jennifer van Overbeeke**, *Carolinian Canada Coalition*

**Joshua Wise**, *Ontario Nature*

**Kate Lillie**, *Lake Simcoe Region Conservation Authority*

**Laura McDonald**, *Credit Valley Conservation*

**Lindsay Davidson**, *Hamilton Conservation Authority*

**Matt Lacombe**, *South Nation Conservation Authority*

**Melissa Williams**, *LEAF*

**Renee Brock**, *Credit Valley Conservation*

**Sarah Matchett**, *Conservation Halton*

**Stephanie Durocher**, *Nottawasaga Valley Conservation Authority*

**Victoria Thomas**, *Central Algoma Freshwater Coalition*

WEDNESDAY, NOVEMBER 19, 2014

1:00 PM – KEYNOTE SPEAKER

**ZIYA TONG SCIENTIST AND MEDIA PERSONALITY**



Gemini-nominated Ziya Tong showcases her thirst for curiosity everyday as the co-host of Daily Planet, Canada's daily science show. Bringing a wealth of knowledge, experience, and enthusiasm for science and the environment to the stage, Ziya addresses issues such as the shifting nature of time and space, and our place within the universe, in her riveting and eye-opening talks.

Before co-hosting Daily Planet, Ziya served as host and field producer for PBS' national primetime series, Wired Science, produced in conjunction with Wired magazine. In Canada, Ziya hosted the CBC's Emmy-nominated series ZeD, a pioneer of open source television, for which she received a Gemini Viewer's Choice Award nomination. Ziya also served as host, writer and director for the Canadian science series The Leading Edge and joined the team at NOVA scienceNOW as a new contributor in 2009.

In New York, Ziya served as a senior producer for Orientation.com, a +global internet news portal for developing countries partnered with the BBC and UNDP. In 2003, Ziya launched the Ethical Media Division for Cowie and Fox Creative, one of Vancouver's leading interactive agencies, to promote green branding for non-profit and environmental groups. A strong supporter of public broadcasting, Ziya also participates in Media that Matters, a conference that promotes social change and media activism.

Ziya received her Masters Degree in communications from McGill University, where she graduated on the Dean's Honour List. She also serves on the Board of Directors of the World Wildlife Fund.



**Ontario**

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



# DAY TWO

2:00 PM – 5:00 PM

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

W3A – LOBBY

W3B – ROOM 15

W3C – ROOM 18

W3D – ROOM 10A

### Tour of Schomberg WPCP and WTP via Holland Marsh

Join us for a visit to York Region's Water Pollution Control Plant and Water Treatment Plant in Schomberg. The Schomberg WPCP was built to replace the existing lagoon treatment system, which has since been converted to an engineered wetland. Tertiary treatment on-site includes an extended aeration process, filtration and ultraviolet disinfection. The Schomberg WTP was built to address the current water quality concerns and to meet future growth needs. With methane strippers, ceramic filters and ultraviolet disinfection, this facility treats the challenging raw groundwater source. This tour will include running commentary by David Lembcke from Lake Simcoe Region Conservation Authority as we travel through the Holland Marsh, and a 10-15 min stop where Frank Jonkman from the Town of Bradford West Gwillimbury, will talk about some of the drainage works done over the years to improve flood protection, and farming activities, as well as some details about the effects of Hurricane Hazel. Please arrive at 1:30 PM to register for the tour, the Nottawasaga Inn is our start and end point for this 3-hour tour.

### Conserving Habitat with a Landscape Approach

Years of human development and expansion around the Great Lakes has impaired habitat connectivity and dramatically reduced the number of remaining natural heritage features. This session will address the history of the area; current conservation concerns; new techniques for evaluating and maintaining habitat connectivity, and partnership building.

### Mapping Landscape Connectivity Across the Great Lakes Basin

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

### Legacy for a Lost Lake: Towards New Conservation Priorities for the Lake Iroquois Plain

**Mark Stabb**  
(Nature Conservancy of Canada)

### Algonquin to Adirondacks (A2A): Lessons Learned and Looking Forward

**Lilith Wyatt**  
(Algonquin to Adirondacks Collaborative) **and Megan Sheremata**  
(University of Toronto)

### WISKI Training [Workshop]

This training workshop will be delivered by KISTERS North America, Inc. in two time blocks. Please register to one or both of the sessions according to your experience. Each session has a maximum of 30 participants.

Pre-requisites for all attendees:

- must be a licensed WISKI User
- can bring a laptop with ability to remotely connect to own WISKI system

### 2:00 PM – 3:00 PM WISKI for Intermediate Users (6+ Months)

This 1 hour workshop will cover some fundamentals of time series, copying and rolling out new stations/parameters/time series to the system, review of the agent framework and how the agents interact with your data, and finally developing standard graphs and templates.

### Phil Stefanoff

### 3:15 PM - 4:15 PM WISKI for Advanced Users (2+ Years)

This 1 hour workshop will cover how to utilize the operations framework, the use of time series transformations, as well as time series statistics for flood management and operations.

### Matt Ables

### The Right Place at the Right Time: "Better" Best Management Practices for Agriculture

Beneficial or Best Management Practices are practical, affordable voluntary actions that farmers "adopt" to conserve a farm's soil and water resources without sacrificing productivity. This session will explore "BMPs" and how they can be improved.

### What Are Best Management Practices for Agriculture?

**Gabrielle Ferguson**  
(Ontario Ministry of Agriculture, Food and Rural Affairs)

### Defining Sustainable Agricultural Practices

**Crosby Devitt**  
(Grain Farmers of Ontario)

### 4R Nutrient Stewardship and Best Management Practices to Improve Water Quality

**Tom Bruulsema**  
(International Plant Nutrition Institute)

# WEDNESDAY, NOVEMBER 19, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
W3E – ROOM 4	W3F – ROOM 5	W3G – LOBBY	W3H – ROOM 10
<b>Agroecology – An Ecosystem Approach to Farm Production [Panel]</b>  Agroecology is an approach to agri-food systems that is based on the principles of conserving and recycling resources by managing ecological relationships, adapting to local environments, diversify systems, and adopting a whole system perspective. This forum will use the agroecological lens. The panel will discuss challenges and opportunities to stimulating agroecology with a focus on disseminating knowledge and enabling policies.	<b>Engaging New Audiences through Storytelling</b>  The language of science and policy can be rather difficult to connect with. Yet to be successful in our work we need to be able to engage new communities within the broader public on our projects and campaigns. Our stories and how we tell them are key. This session explores storytelling as a way to build meaningful connections with new audiences. The session will also explore new methods and tools to communicate watershed issues and educate the local public.	<b>Rock to Wetland Aggregate Tour</b>  Join us for an afternoon bus tour to visit several aggregate sites and learn about their unique rehabilitation success stories. The Nottawasaga Inn is our start and end point for this 2-hour tour that will highlight local aggregate rehabilitation projects.	<b>Tools and Practices for Environmental Protection in Urban Areas</b>  Environmental protection in urban areas relies on effective tools, approaches and collaboration. This session will outline the importance of site alteration by-laws, environmental friendly infrastructure planning and successful collaboration in a highly complex natural channel design projects.
<b>Microbially Active Soils and Nutrient Cycling</b> <b>Jeri Parent</b> (Ecologist)  <b>Agroecological Practices on an Organic Farm</b> <b>Alvaro Venturelli</b> (Plan B Organics Farm)  <b>Food Systems That Foster Agroecology</b> <b>Kristine Hammel</b> (Grey Bruce Centre for Agroecology)  <b>Agroecological Principles at Multiple Scales and Disciplines: A Knowledge Perspective</b> <b>Thorsten Arnold</b> (Grey Bruce Centre for Agroecology)	<b>Building Meaningful Connections with Audiences</b> <b>Raj Gill</b> (Canadian Freshwater Alliance)  <b>Using UAV to Tell the Watershed Story</b> <b>Jacqui Empson Laporte</b> (Ontario Ministry of Agriculture, Food and Rural Affairs) <b>and Rob Boyce</b> (Your Life in Stills)  <b>Here Be Dragons : The Making of a Wetland Documentary</b> <b>Ramya Jegatheesan</b> (Ramya J Images) <b>and Greg Bunker</b> (Henry Kortekaas & Associates)		<b>A New Site Alteration By-law: Change for a Growing City</b> <b>Jacob Reid</b> (City of Barrie)  <b>Embracing Change: Adapting Capital Infrastructure Delivery to Enhance Environmental Protection and Due Diligence</b> <b>Jeff McNeice</b> (York Region)  <b>A Perfect Confluence of Environmental Collaboration - Part 1: Challenges and Solutions</b> <b>Ron Scheckenberger</b> (AMEC)  <b>Part 2: The Regulator's Role</b> <b>Amy Mayes</b> (Conservation Halton)  <b>Part 3: The Owner's Perspective</b> <b>Scott Hamilton</b> (City of Burlington)



# DAY TWO

## STUDENT POSTER DISPLAYS AND COMPETITION

4:00 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. This year, a total of 19 presenters are featured. They include:

NAME	AFFILIATION	POSTER PRESENTATION
<b>Meredith Purcel</b>	Trent University	Phylogeographic Assessment of Subspecies Ranges of North American Moose
<b>Graeme MacDonald</b>	University of Guelph	Developing In-situ Groundwater Nitrate Sampling Methods
<b>Andrea Boyer</b>	Western University	Effects of recurrent inclement weather on a songbird species
<b>Claire Coombs</b>	University of Guelph	Legume cover crops to reduce nitrogen losses in corn systems
<b>Neil Taylor</b>	University of Waterloo	Ecohydrology of regenerating cutover peatlands
<b>Roger Holmes</b>	Western University	Adoption of Agricultural BMP's to Protect Receiving Stream Invertebrate Populations
<b>Jennifer Mills</b>	Georgian College	Impacts of Chloride Use in the City of Barrie on Stormwater Ponds
<b>Jack McKee</b>	Western University	Gauge-radar precipitation merging methods for reliable flood forecasting
<b>Shegufa Merchant</b>	Trent University	Transforming plastics into green materials: Replacing crude oil with vegetable oil
<b>Beke Brinkmann</b>	Trent University	The effects of hydroelectric corridors on Newfoundland caribou ( <i>Rangifer tarandus</i> ) distributions
<b>Damilare Ogungbemide</b>	Trent University	The Efficacy of water-spraying as a fugitive dust control strategy
<b>Tricia Stinnissen</b>	Trent University	Roads, Reptiles and Amphibians on the Bruce Peninsula: Toward Prediction, Mitigation and Recovery
<b>Stephanie Masina</b>	University of Guelph	Environmental Health Risks in the Canadian North: Acute and Chronic Gastrointestinal Illness in Rigolet, Nunatsiavut
<b>Nishant Mistry</b>	University of Guelph	Trends of nitrate concentrations in groundwater for variable geological settings in agricultural watersheds
<b>Sarah Endicott</b>	University of Waterloo	Predicting the Spread of European Buckthorn
<b>Ricardo Poulat</b>	University of Toronto	Carbon offset markets towards conservation of semi-urban forests in southern Ontario
<b>Rachael Marshall</b>	University of Guelph	Protection of First Nations' water resources: A groundwater-focused study for decision-making and long-term planning relating to alternate drinking water sources
<b>Gilles Pansin</b>	University of Toronto	The role of multi-purpose inventory information in sub-watershed planning and forest management on Georgina Island
<b>Sarah Plant</b>	Fleming College	Exploring Ontario hay management options and their effectiveness at balancing the farming industry and the ecological needs of grassland birds

# WEDNESDAY, NOVEMBER 19, 2014

## DREAM AUCTION

**4:00 PM to 7:00 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 – 1 card for \$20 (see below for details)

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:**

- \$1,000 Landscape Design Package with Shirley den Houdyken
- Flight with Dave Hadfield in his classic airplane, a 1946 Fairchild 24W
- Golf passes to Turnberry Golf Club
- Tent from Mountain Equipment Co-op
- 2 Adult passes to Ripley's Aquarium
- VIP tour of Niagara College Teaching Winery and Brewery
- One round of golf and lesson for 3 at Arnprior Golf
- 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. The card draw will be for an amazing weekend getaway donated by Beacon Environmental. Stay Tuned - the details will be revealed during the Symposium.

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 helps 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 conference. With over **\$14,000 raised at last year's auction**, our awards will enable up to 30 students and/or representatives of smaller environmental non-governmental organizations to attend this year's conference.

**Thinking of making a donation for the 2015 Symposium?** Please contact Shelley McKay (Forests Ontario) or Shelley Macpherson (Rideau Valley Conservation Authority) via email [smckay@treesontario.ca](mailto:smckay@treesontario.ca) / [shelley.macpherson@rvca.ca](mailto:shelley.macpherson@rvca.ca).



# DAY TWO

## ENTERTAINMENT + GREENING INFORMATION

### 7:00 PM – GALA BANQUET DINNER

### 8:00 PM – ENTERTAINMENT



Music is a universal language — there's rhythm in all of us — that allows us to communicate, work together and experience a common sense of belonging. Through music, we learn to be receptive and creative at the same time.

Drum Café is a world leader in all types of drumming entertainment, interactive drumming for team building, and drumming interactive shows for fun and party events.

Drum Café's interactive drumming is a powerful way to make any event unforgettable! It's an event where everyone gets to play a drum. It is an interactive event where each individual is not a spectator, but a performer who is involved at the same level as his/her colleague, enforcing a cooperative, non-competitive relationship amongst the group.

## 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 Latornell Conservation 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

As part of Greening the Symposium, the Latornell Steering Committee has added a bus Shuttle Service from Downsview TTC Station to the Nottawasaga Inn Resort & Conference Centre daily. Participants can jump on the shuttle bus at the Downsview Station and travel to and from conference daily at \$10.00 per trip.

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 conference 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 conference 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!



## WE ARE PLEASED TO PLANT TREES

In Honour of the Delegates of the 2014 Latornell Conference

Toronto: 416.646.1193  
Toll Free: 1.877.646.1193  
[info@forestsontario.ca](mailto:info@forestsontario.ca)  
[www.forestsontario.ca](http://www.forestsontario.ca)



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# DAY THREE

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

TH1A – ROOM 15

TH1B – ROOM 10

TH1C – ROOM 4

TH1D – ROOM 5

### **Changing Climate, How Do We Improve Our Flood Mapping?**

As the climate is changing, our long used techniques of having the past inform the future are no longer reliable. Hear from a number of floodplain mapping experts on what could/should be done to improve our mapping products now to make them more reliable as we move forward.

### **Improving Our Identification of Flood Vulnerable Area - Recent Floodplain Mapping Updates at HCA**

**Jonathan Bastien**  
(Hamilton Conservation Authority)

### **Flood Plain Mapping for 2020, 2050 and 2080**

**Peter Nimmrichter**  
(AMEC Environment & Infrastructure)

### **Working Together for a More Sustainable Future**

**Sandra Mancini**  
(South Nation Conservation) and **Matt Craig**  
(Mississippi Valley Conservation Authority)

### **Latest in Invasive Species Management: Collaborating against an Invasive Threat, Promoting Native Growth and Creating Networks**

This session explores the latest in Invasive Species Management. We will present: a collaborative strategy to prepare for a new invasive threat, the Hemlock Woolly Adelgid; discuss the restoration of native forest ecosystems in otherwise-altered urban environments; and review opportunities to expand the invasive species network.

### **Stopping the next Emerald Ash Borer – a Proposal for Collaboration**

**Kathleen Ryan**  
(Silv-Econ Ltd.)

### **Fostering Urban Forest Health through Native Planting and Invasive Control**

**Alex Karney**  
(Urban Forest Associates Inc.)

### **Weaving Your Web**

Web-based tools allow for data to be centralized and accessible over the Internet from any computer at any time. This session will explore some larger scale web-based tools along with a smaller scale practical application of web-based technology.

### **Advancing the Development of a Web-based Integrated Watershed Management Decision Support System**

**Trevor Boston**  
(Greenland International Consulting Ltd.)

### **Ontario Flow Assessment Tool Version III: Estimating Water Quantity for Ontario to Assist with Environmental Management**

**Steve Damaia**  
(Ministry of Natural Resources and Forestry)

### **Frozen in the Field: A Practical, Web-Based Solution for Collecting Winter Field Data**

**Bill Trenouth**  
(University of Guelph)

### **The View from Here!**

Sometimes learning to play in the same sandbox involves listening to the needs of others. This session will provide an overview of educational and outreach efforts that have inspired action on the shorelines of Lake Huron and Lake Ontario.

### **Coastal Stewardship: How to Make it Happen**

**Karen Alexander**  
(Lake Huron Coastal Centre)

### **Taking Action in Huron County: Investing in People and Projects to Protect Lake Huron**

**Susanna Reid**  
(Planner, Huron County)

### **Transformation of the Toronto Shoreline from Tommy Thompson Park to Frenchman's Bay**

**Liz Trenton**  
(Toronto and Region Conservation)

# THURSDAY, NOVEMBER 20, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
TH1E – ROOM 10A	TH1F – ROOM 6	TH1G – ROOM 18	TH1H – ROOM 19
<b>Natural Capital and Ecosystem Service Assessments in Ontario</b>  In this session we will explore the use of Natural Capital and Ecosystem Service assessments as a rationale for conservation and a method to support effective resource management policies in Ontario. The session will also address key challenges and needs related to ecosystem services valuation in Ontario.	<b>Selling the Extreme Weather Message [Workshop Part 1]</b>  This two part workshop will explore how to communicate effectively about climate change and extreme weather risk to the media and others.  The workshop is intended for the seasoned professional to help improve communication with the media in conveying key messages on a changing climate.  Participants are expected to register for both parts of this workshop.  In this workshop, participants will work towards: <ul style="list-style-type: none"><li>• Agreeing on 3 - 5 key extreme weather issues that are facing Canadian cities and businesses</li><li>• How to articulate 3 - 5 messages concisely in non-technical terms that anyone can understand</li><li>• How to convey messaging in an engaging manner</li></ul>	<b>SOWC: New Approaches to Watershed Monitoring in Urban and Urbanizing Watersheds</b>  The Southern Ontario Water Consortium (SOWC) is a platform for research, development and demonstration of water and wastewater technologies. This session will give an overview of SOWC, particularly focusing on its Watershed node which enables the investigation of watershed-scale hydrologic processes, and a demonstration of the SOWC data integration platform.	<b>Building Greener Communities</b>  This session provides three examples of initiatives being undertaken to transform communities into more sustainable and environmentally friendly places. You will hear about sustainable programs, policies and practices for both new development and existing communities through retrofits.
<b>Natural Capital Assessment: The Practitioner's Dilemma – Why Hasn't NCA Caught on in Ontario?</b>  <b>Vince Deschamps and Natalie Leava</b> (Stantec Consulting Ltd.)  <b>Ontario's Experience Valuing Nature</b> <b>Andreas Link</b> (Ministry of Natural Resources and Forestry)  <b>Ontario Wetland Carbon Sequestration</b> <b>Eric Enanga</b> (Western University)	  <b>SOWC - A Platform for Water Innovation</b> <b>Evelyn Allen</b> (Southern Ontario Water Consortium)  <b>Addressing Challenges in Watershed Management: SOWC's Node</b> <b>Dr. David Rudolph</b> (University of Waterloo)  <b>Advancing Innovation in Monitoring &amp; Data Management: SOWC's Data Integration Platform</b> <b>Odum Idika</b> (Southern Ontario Water Consortium)	  <b>Priority Green Clarington - Building Liveable Communities</b> <b>Amy Burke</b> (Municipality of Clarington)  <b>Transforming New Residential Communities With Water Efficient Blue Built Homes</b> <b>Julie Anne Lamberts</b> (City of Guelph)  <b>Neighbourhood Transformation in Action</b> <b>Justyna Braithwaite</b> (Toronto and Region Conservation)	
<b>Dr. Blair Feltmate</b> (University of Waterloo)			



# DAY THREE

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

TH2A – ROOM 10A TH2B – ROOM 15

TH2C – ROOM 4

TH2D – ROOM 5

### Can YOU Predict a Flood?

The past few years, Ontario has seen some of the highest flooding in recent history, and the Conservation Authorities have been (mostly) predicting the events. What sort of forecasting/modelling tools are being used to help CAs with their forecasting predictions?

### Keeping an Eye on the Sky (and Stream) – HCA's Approach to Flood and Drought Management

**Jonathan Bastien**  
(Hamilton Conservation Authority)

Real Time Flood Forecasting with PCSWMM, Real-time Radar Data and SWMM5

**Rob James and Karen Finney**  
(Computational Hydraulics International)

Flood Forecasting using WISKI and GAWSER for Snow Accumulation and Melt

**Christine McClure**  
(Quinte Conservation)

### Wetlands: It Takes All Types

Wetlands are some of the most diverse and productive habitats in Ontario. This session will discuss the importance of smaller wetlands, review measures to mitigate the impacts of development on amphibians, and examine large-scale flood plain forest loss and stewardship opportunities in an internationally significant wetland.

### The Importance of Small Wetlands in Southern Ontario

**Steve Varga**  
(Ministry of Natural Resources and Forestry)

Effectiveness of Measures to Maintain Landscape Connectivity for Amphibians in an Urbanizing Area

**Chris Parent**  
(North-South Environmental Inc.)  
**and Dr. Lorne Bennett**  
(University of Guelph)

Floodplain Forest Decline and Opportunities for Reforestation In Minesing Wetlands  
**David Featherstone**  
(Nottawasaga Valley Conservation Authority)

### Drone Data Collection: A Practical Demonstration

This session will feature a live, **outdoor demonstration**. Northern Survey Supply will demonstrate the Aibotix UAV in flight and capture imagery and LiDAR data for LAS point cloud generation. After the flight demonstration, Intergraph will demonstrate the software workflow for generating the point cloud and analytical capabilities of the resultant data.

**Francis Nepveu**  
(Northern Survey Supply)  
**and Brad Schmidt**  
(Intergraph Canada)

### Merging Science and Traditional Ecological Knowledge

Science based solutions to water based threats can often be complex; however, implementation of the solutions can be simple and engaging. This session explores the integration of traditional knowledge holders, traditional ways of knowing and the use of common language to build participation in local community action projects.

**Inspiring Change through the Sacred Dorothy Taylor and Alix Taylor**  
(GreenUP / Sacred Water Circle)

**Connecting Canadian Youth to Indigenous Knowledge and Conservation**  
**Carissa MacLennan**  
(Jane Goodall Institute of Canada)

**The Importance of Vernacular Knowledge For Solving Complex Water Management Problems**  
**Dr. Hugh Simpson**  
(University of Waterloo / Ministry of Agriculture, Food and Rural Affairs)

# THURSDAY, NOVEMBER 20, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
TH2E – ROOM 6	TH2F – ROOM 18	TH2G – ROOM 19	TH2H – ROOM 10
<b>Modelling for Ecosystem Services</b>  This session will demonstrate some leading examples of modelling for ecosystem services, highlight key challenges in linking the economics and biophysical components of ecosystem services, and present new tools to break down those barriers.	<b>Selling the Extreme Weather Message [Workshop Part 2]</b>  This second part of a two-part workshop will continue to explore how to communicate effectively about climate change and extreme weather risk to the media and others.  Participants are expected to register for both parts of this workshop.	<b>Practical Application of Restoration Techniques</b>  Come and spend 90-minutes learning from the professionals that can have the biggest influence in the successful implementation of a project – your contractor! Everyone will leave this session learning something new about what to replicate and what to avoid during the design and construction phases of projects.	<b>Creating Liveable, Resilient and Sustainable Communities</b>  How to plan our communities to make them more sustainable, liveable and resilient? Learn how environment and ecological integrity play a fundamental role in instilling a sense of place and how community growth should consider cumulative-effects that are based on limits, capacity, and efficacy.
<b>Ecosystem Modeling for Protected Areas with the ARIES Project</b> <b>Will Wistowsky</b> (Ministry of Natural Resources and Forestry)  <b>Using Agent-Based Modeling to Understand Resilience in a Southern Ontario Agroecosystem in the Context of Climate Change and Alternative Agricultural Regimes</b> <b>Martin Bunch</b> (York University)  <b>Modelling Ecosystem Services in Ontario and Canada</b> <b>Wanhong Yang</b> (University of Guelph)	<b>Dr. Blair Feltmate</b> (University of Waterloo)	<b>Creek Construction: How to Plan the Perfect Project to the Last Detail – You Don't!</b> <b>Harry Reinders</b> (R&M Construction)  <b>Project Planning in Areas of Archaeological Significance</b> <b>Jacquie Fisher</b> (Fisher Archaeological Consulting)  <b>Craig Berga</b> (Ducks Unlimited Canada)	<b>The Ecology of Place</b> <b>Richard J.H. Wyma</b> (Essex Region Conservation Authority)  <b>The Cumulative Effects Paradigm: Transforming Our Conceptual Model</b> <b>F. Chris Jones</b> (Ministry of the Environment and Climate Change / Laurentian University)  <b>Understanding and Managing Cumulative Effects in the Context of Watershed Growth</b> <b>Judi Brouse</b> (District of Muskoka)

This event is



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with 100%  
green electricity



# DAY THREE

## RBC FOUNDATION LUNCHEON FEATURING LEADERSHIP AWARDS

NOON to 2:00 PM – RBC FOUNDATION LUNCHEON  
FEATURING DAVID MILLER



12:30 PM to 1:00 PM – LATORNELL LEADERSHIP AWARD CEREMONY

**Master of Ceremonies** - Ron Reid, 2006 Latornell Pioneer Award Recipient

### 2014 LEADERSHIP AWARD RECIPIENTS



#### **Judi Brouse**, *Nominated by: Muskoka Watershed Council*

Judi Brouse started her career in conservation as the Resource Planner for the Catarraqui Region Conservation Authority and wrote their first watershed plan (1983-1984). In 1984, she became District Planner at the District Municipality of Muskoka (DMM), then Director for Long-range Planning and, since 2003, Director of Watershed Programs. She has overseen the evolution of the DMM water quality program from 1984 into today's Lake System Health Program. Throughout her career, Judi has gone well beyond expectations in committing time, energy and talent to achieve objectives.

One of Judi's most significant accomplishments is the instrumental role that she has played in the establishment of and on-going work associated with the Muskoka Watershed Council (MWC), a unique, volunteer-based, public and private sector partnership with the mandate to champion watershed health. In a region lacking a Conservation Authority, Judi has enabled MWC to develop and implement science-based programs to protect watershed health, advocate for environmentally sound planning and management practices and policies to sustain the health of Muskoka's watersheds, and educate the public and municipal councils to promote awareness of the impact of human actions on the environment.

For thirty years, Judi has been an effective role model for environmental stewardship, promoting water quality and watershed health throughout Muskoka. She built a working watershed model for use with school groups, developed lake data sheets making monitoring data accessible to the public, established the shoreline survey program that later evolved into the Love Your Lake program, and developed the benthic-monitoring program to further engage lake residents in lake monitoring. She regularly gives talks to lake associations, service clubs, and school groups.

Judie loves her job, Muskoka and the environment. She is an outstanding role model who demonstrates that it is possible to find jobs that one is passionate about, all the while making a positive difference in the world.



#### **Debbe Crandall**, *Nominated by: Save the Oak Ridges Moraine STORM*

For 25 years, Debbe Crandall has dedicated herself to the Save the Oak Ridges Moraine Coalition (STORM) as a volunteer, board member, Executive Director, and most recently as policy analyst. As champion of Oak Ridges Moraine (ORM) protection, she provided leadership and support to numerous groups across the moraine landscape through a vibrant coalition model that initially succeeded in influencing decision-makers to protect the moraine through stand-alone legislation (the ORM Conservation Act in 2001 and the ORM Conservation Plan in 2002). In the lead-up to moraine protection, she represented STORM on the ORM Citizens Advisory Committee (CAC) as Chair (part of the ORM Technical Working Committee [TWC] from 1991-1994) and was appointed to the Oak Ridges Moraine Advisory Panel in 2001, which developed the framework for the ORM Conservation Act and Plan. Subsequently, she transformed the coalition into a "planning organization" that maintained focus on the moraine through monitoring activities, capacity building and applied research such as the Loose Threads Workshop in 2004, the Monitoring the Moraine Project in 2005, the York Region Strategic Environmental Assessment Research Project in 2007 as well as numerous conferences and symposia.

Government agencies have called on Debbe's services numerous times. For example, she was appointed to the Central Ontario Smart Growth Panel and Land Exchange Review Panel in 2003. Debbe was also appointed to the Oak Ridges Moraine Foundation's Board of Directors as a Director in 2004, Treasurer in 2005 and the Chair from 2008 to 2010. In 2006 Debbe was appointed to the Greenbelt Council to provide advise to the Minister of Municipal Affairs and Housing on Greenbelt matters. She continues to play a vital role in preparation for the review of the Greenbelt Plan (including the ORM Conservation Plan) scheduled for 2015.

Debbe's enthusiasm for the moraine's diverse landscape inspires both young and old. Her passion for the issues means that co-workers and volunteers become her life-long colleagues. Former employees who started their careers with Debbe in STORM currently hold management positions in the Ontario Public Sector and NGO sector in Ontario, planning positions with Conservation Authorities as well as academic positions. Indeed, Debbe has had a positive impact not only on the environment, but on the people that she has encountered as well.

# THURSDAY, NOVEMBER 20, 2014

## LEADERSHIP AWARD RECIPIENTS + KEYNOTE SPEAKER DAVID MILLER



### **Lorrie Minshall, Nominated by: Grand River Conservation Authority**

The connecting thread of Lorrie's long and busy career has been her commitment to integrated watershed management as the key to a better environment and healthier communities. As the first female engineer to graduate from the University of Guelph, Lorrie was an inspiration at a young age. As a young engineer, she wrote papers for the 1982 Grand River Basin Water Management Study, which examined both water quality and quantity in addition to flooding issues. As a senior water resources engineer, Lorrie had an intimate understanding of how the Grand watershed works as well as extensive knowledge of the best ways to manage floods in order to minimize the impact on people and their communities. Furthermore, Lorrie was the project manager for the "Grand Strategy for Managing the Grand River as a Canadian Heritage River" project, which was developed in a collaborative, watershed-wide process to support the 1994 Heritage River designation.

In the early 2000s, Lorrie saw the need to return to the 1982 Grand River Basin Study and in 2009, she began work on a project to revisit the study, update it, and provide a new guide to water management for the 21st century in three areas: water supply, water quality and flooding. She envisioned the new plan as a collaborative effort involving all levels of government as well as First Nations with a stake in water issues. In 2010, partners signed on: municipalities, provincial ministries, Environment Canada and the Six Nations of the Grand River. After five years of work, the plan is now going through an endorsement process by all of the partners in anticipation of a formal launch in early 2015. The new Water Management Plan is a direct outcome of Lorrie's commitment to watershed planning and an expression of her will to leave a legacy for the GRCA, its partners and the people of the watershed.

### **1:00 PM to 2:00 PM – KEYNOTE SPEAKER**

### **DAVID MILLER PRESIDENT & CEO, WORLD WILDLIFE FUND CANADA**



David Miller is President and CEO of World Wildlife Fund – Canada, Canada's foremost Conservation organization. The WWF creates solutions to the most serious conservation challenges facing our planet, helping people and nature thrive. David Miller was Mayor of Toronto from 2003 to 2010 and Chair of the influential C40 Cities Climate Leadership Group from 2008 – 2010. Under his leadership, Toronto became widely admired internationally for its environmental leadership, economic strength and social integration. He is a leading advocate for the creation of sustainable urban economies, and a strong and forceful champion for the next generation of jobs through sustainability.

Mr. Miller continues to be associated with a variety of public and private boards, and is the Future of Cities Global Fellow at Polytechnic Institute of New York University (NYU-Poly). In his former capacity as Counsel, International Business & Sustainability at Aird & Berlis LLP, he advised companies and international organizations on issues surrounding the creation of sustainable urban economies.

David Miller is a Harvard trained economist and professionally a lawyer. He and his wife, lawyer Jill Arthur, are parents of two children.



**LATORNELL**  
CONSERVATION SYMPOSIUM

**MARK YOUR CALENDAR  
FOR THE 2015 SYMPOSIUM  
NOVEMBER 17, 18 AND 19, 2015**

**Nottawasaga Inn Resort & Conference Centre  
Alliston, Ontario**



# DAY THREE

2:15 PM – 4:30 PM

## Watershed Management

## Natural Heritage

## Tools and Technology

## Driving Change

TH3A – ROOM 10A TH3B – ROOM 4

TH3C – ROOM 5

TH3D – ROOM 6

### How to Make a Plan and Stick to It

When it comes to preparing and implementing watershed plans, planning policies, or source water protection plans to face today's environmental challenges, it's all about balancing competing interests. Up-front communication on your project's intentions and knowing your audience is key to stakeholder buy-in and to avoiding last-minute surprises.

### Partnership, Planning and Implementation

**Pat Kinch**

*(Ministry of the Environment and Climate Change)*

### Risky Business – Implementing Source Protection

**Scott Lister**

*(York Region)*

### Watershed Plans - Providing the Tools for Implementation

**Heather Brooks**

*(Central Lake Ontario Conservation Authority)*

### Developing Watershed Management Plans through Stakeholder Consultations

**Victoria Thomas**

*(Central Algoma Freshwater Coalition)*

### The Living City Policies for Planning and Development in the Watersheds of the Toronto and Region Conservation Authority

**Laurie Nelson**

*(Toronto and Region Conservation)*

### Updates in Aquatic Species at Risk Protection and Recovery [Workshop]

This workshop will present updates on regulatory changes, recovery planning and implementation, stewardship, monitoring, and research for freshwater fishes and mussels.

### Updates in Aquatic Species At Risk Protection and Recovery

**Dave Balint**

*(Fisheries and Oceans Canada)*

### Update on Recovery Planning for Redside Dace

**Shawn Staton**

*(Fisheries and Oceans Canada)*

### Science in Support of the Aquatic Species at Risk Recovery Program in Ontario

**Jason Barnucz**

*(Fisheries and Oceans Canada)*

### Science in Support of Recovery: Modelling Factors That Affect Occupancy and Abundance of the Imperilled Eastern Sand Darter

**Alan Dextrase**

*(Ministry of Natural Resources and Forestry)*

### Rags to Riches - The RVCA Story of Science to Stewardship

The RVCA will present how they are using Monitoring Programs to promote and target Stewardship in the Rideau watershed. This session will describe the monitoring programs in place, the timing and collection of information, the assessment of the information to generate

management, conservation and restoration solutions for private landowners in the Rideau Valley in an effort to ensure natural shorelines, clean water and sustainable development for all.

### Monitoring Programs at the RVCA

**Michael Yee**

*(Rideau Valley Conservation Authority)*

### Septic Re-inspections: Stewardship Through Education

**Eric Kohlsmith**

*(Rideau Valley Conservation Authority)*

### Subwatershed Report Cards: The RVCA Product

**Ewan Hardie**

*(Rideau Valley Conservation Authority)*

### RVCA Stewardship Programs, Targeting Our Efforts

**Derek Matheson and Andrea Klymko**

*(Rideau Valley Conservation Authority)*

### The Otty Lake Smallmouth Bass Habitat Enhancement Project

**Jennifer Lamoureux**

*(Rideau Valley Conservation Authority)*

### Growing through Partnerships

Transformative growth is never achieved by simple chance; it is the result of forces working together. Effective partnerships increase the likelihood of each partner achieving their goal and amplifying their reach throughout Ontario.

### Creating Partnerships and Building a Watershed-Wide Program

**Sue Buckle and Julia Burke**

*(North Bay-Mattawa Conservation Authority)*

### Collaboration, Mergers and Coalitions: Working Together to Increase Reach and Capacity

**Rob Keen**

*(Forests Ontario)*

### Local Agricultural Partnerships for Municipal Source Protection

**Alison McDonald**

*(South Nation Conservation)*

### and Jacqueline Kelly-Pemberton

*(Dundas Federation of Agriculture & Source Protection Committee Agricultural Representative)*

### Partnerships for Capacity Building

**Cameron Miller and Andrew Craig**

*(Royal Bank of Canada)*

# THURSDAY, NOVEMBER 20, 2014

Environment, Economy and Health (in association with ONES)	Communications and Outreach	Protect, Restore and Enhance	Growth and Transformation
TH3E – ROOM 18	TH3F – ROOM 19	TH3G – ROOM 15	TH3H – ROOM 10
<b>Biodiversity Offsetting in Ontario [Panel]</b>  While interest in biodiversity offsetting is growing in Canada, it is not yet widely used, with most experience to date limited to fish habitat and wetlands. Panel participants will discuss their experience with biodiversity offsets, key challenges and barriers and how to address them in the future.	<b>Strengthening Great Lakes Literacy [Panel]</b>  The need to engage and empower communities on Great Lakes issues is a shared priority across jurisdictions. This session will feature a new generation of projects and partnerships underway which will help Conservation Authorities and other environmental advocates better understand options and opportunities to work with Ontario's formal education system.	<b>Water and Life in Balance: Making the Ecosystem-Hydrology Connection</b>  Ecohydrology studies the interactions between water and ecosystems. Land-use changes affect the dynamics and flow of water to these systems. We will examine these effects and discuss various tools and techniques to assess and mitigate negative changes to these systems and their functions.	<b>2015 Provincial Plan Review</b>  This session will examine how Provincial Plans have evolved and how the 2015 review will proceed. Ducks Unlimited will discuss their involvement in sustainable growth management. The CAMC and an ENGO collaborative will conclude with a discussion of their respective report carding and public engagement efforts related to the 3 Plans.
<b>Creating a Framework for Biodiversity Offsetting in Ontario</b> <b>Sarah Hedges</b> (Ontario Nature)  <b>Experience with Habitat Offset Projects to Date</b> <b>Ron Reid</b> (The Couchiching Conservancy)  <b>Offsetting under the Endangered Species Act</b> <b>Carl Bickerdike</b> (South Nation Conservation)	<b>Panel Discussion 1: Great Lakes as Context for Teaching and Learning - Examples of School Boards Working With Conservation Authorities and the Province</b>  <b>Elizabeth Everardus</b> (Ministry of Environment and Climate Change)  <b>Karen Bond</b> (Student Success/ Learning to 18, Ministry of Education)	<b>Advancing Water Balance for the Protection of Natural Heritage Features</b> <b>Laura Del Giudice and Scott Sampson</b>  <b>Applied Ecohydrology for Better Land Management</b> <b>Dr. Tim Duval</b>  <b>Evaluating Water Needs, the Role of Groundwater and Potential Effects of Development in Ontario Wetlands</b> <b>Dr. Andrea Bradford</b>	<b>The Coordinated Provincial Plan Review</b> <b>Robert Pineo</b> (Ministry of Natural Resources and Forestry)  <b>Conservation as Smart Growth in Ontario Municipalities</b> <b>Amanda Warren</b> (Ducks Unlimited Canada)
<b>Regulators Perspective</b> <b>Ian Crawford</b> (Ministry of Natural Resources and Forestry)  <b>Corporate Perspective</b> <b>Brian McCormick</b> (Hydro One)  <b>Moderator:</b> <b>Eric Miller</b> (Consulting Economist)	<b>Dave Lewis</b> (Halton District School Board)  <b>Hassaan Basit</b> (Conservation Halton)  <b>Panel Discussion 2: Taking the Long View - Strengthening Great Lakes Literacy in Ontario</b>  <b>Elizabeth Everardus</b> (Ministry of Environment and Climate Change)  <b>Cynthia Lee</b> (Toronto Zoo)  <b>Jane Lewington</b> (Conservation Ontario)	<b>Development of an Eco-hydrology Monitoring Program</b> <b>Kelsey McNeill</b>  <b>Connecting Wetland Ecology and Hydrology</b> <b>Hannah Ormshaw</b>  <b>Ecological Impacts of Temporal and Spatial Lags in Water Regime Assessments</b> <b>David Stephenson</b>  <b>Hydrologic Assessment Tool and its Applications</b> <b>Dr. Laura Timms</b>  <b>Use of Conceptual Ecosystem Model to Structure Environmental Flow Assessment</b> <b>Dr. Andrea Bradford and Andy Beaton</b>	<b>Building Partnerships for the 2015 Review of the ORMCP and Greenbelt Plans</b> <b>David Burnett</b> (Conservation Authorities Moraine Coalition)  <b>A Participatory 2015 Review: Out of the Boardroom and into the Public Arena</b> <b>Debbe Crandall</b> (STORM)  <b>An Integrated 2015 Review: Connecting Land-use Policies with Climate Change and Growth</b> <b>Joyce Chau</b> (EcoSpark)

# growth & TRANSFORMATION

## CONTINUE LEARNING AFTER THE SYMPOSIUM + EXHIBITORS

### 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 Conference 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).

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### THIS YEAR'S EXHIBITORS



**terrafix**  
geosynthetics inc.

Ontario  
Conservation  
Natural Champions

AHYDTECH GEOMORPHIC



**Matrix Solutions Inc.**  
ENVIRONMENT & ENGINEERING

Conservation  
Natural Champions

**NATURAL RESOURCE SOLUTIONS INC.**  
Aquatic, Terrestrial and Wetland Biologists



**SAVANTA**

**reep**  
Green Solutions

**Green Communities**  
CANADA



**Ontario Nature**  
Conservation of Ontario's Natural Environment

**FORESTS**  
ONTARIO

**Cansel**  
Improving field to finish productivity



**water's edge**  
Waterfronts of Ontario Association

**75th**  
Anniversary  
Gardens of Innovation Since 1939

**NILEX**  
CIVIL ENVIRONMENTAL GROUP



**Hanson**

**Winkelmolen**  
Nursery Ltd.

**WATER**  
CANADA

THE COMPLETE WATER MAGAZINE



**KISTERS**  
Pioneering Technologies.

**CWRA**  
Canadian Water Resources Association

**ACRH**  
Association  
Canadienne des Ressources  
Hydrogéniques

MINISTRY OF  
NORTHERN  
DEVELOPMENT,  
MINES AND FORESTRY  
ONTARIO GEOLOGICAL  
SOCIETY



**WIN**  
Weather INnovations Incorporated



NORTH AMERICAN  
NATIVE PLANT SOCIETY



**AQUATIC**  
INFORMATICS™

**INTERGRAPH**

**Verbinne's Nursery**  
your natural choice for native trees and shrubs



Environmental  
Commissioner of  
Ontario



OAK RIDGES MORaine  
LAND TRUST



Ducks Unlimited Canada  
Conserving Canada's Wetlands

**DIG**  
DRAINAGE INVESTMENT GROUP

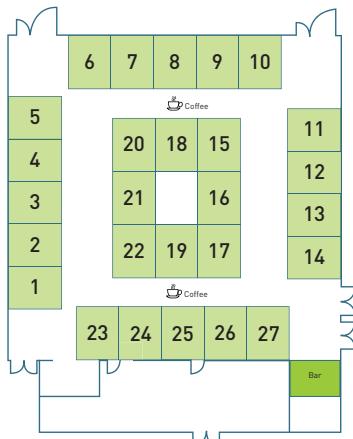


**UNIVERSITY**  
of GUELPH

# THIS YEAR'S FLOORPLAN

## EXHIBITOR GALLERY A

### Crystal Ball Room



1. Solinst Canada Ltd.
2. AHYDTECH Geomorphic
3. Ontario Soil and Crop Improvement Association
4. Savanta Inc.
5. Ducks Unlimited Canada
6. Environmental Commissioner of Ontario
7. Drainage Investment Group
8. Canadian Water Resources Association (CWRA)
9. Forests Ontario
10. Water Resources Information Program (Ministry of Natural Resources)
11. Cansel
12. Matrix Solutions Inc.
13. Hoskin Scientific Ltd.
14. Hoskin Scientific Ltd.
15. Natural Resource Solutions Inc.
16. Campbell Scientific Canada Corp.
17. Aquatic Informatics™ Inc.
18. Nilex Inc.
19. Intergraph
20. strataWORKS Canada Ltd.
21. Water Canada
22. Forest Technology Systems (FTS)
23. KISTERS North America, Inc.
24. Hanson Pipe & PreCast
25. Oak Ridges Moraine Foundation
26. Ministry of Agriculture, Food and Rural Affairs
27. Water's Edge

## MENTORSHIP CAFÉ

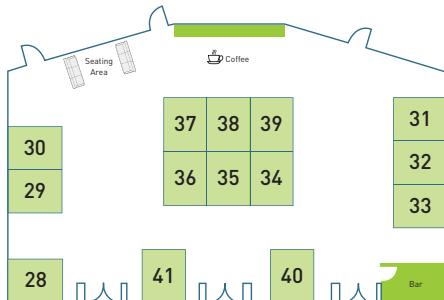
### Between Exhibitor Gallery A & B

I. Young Conservation Professionals (YCP)  
Leadership Program

II. Latornell Mentorship Program

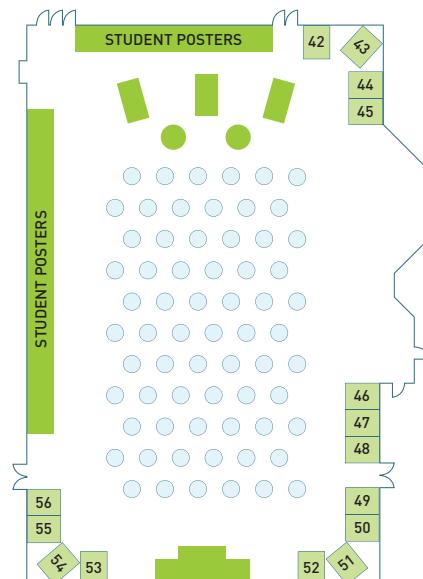
## EXHIBITOR GALLERY B

### Rooms 1-2-3



28. Allset Inc.
29. Conservation Ontario
30. Ontario Nature
31. GEO Morphix Ltd.
32. Winkelmolen Nursery Ltd.
33. Ontario Geological Survey
34. Ontario Partner Environmental Network (OPEN) Portal Project
35. terrafix® Geosynthetics Inc.
36. REEP Green Solutions & Green Communities Canada
37. Verbinne's Nursery Ltd.
38. Conservation Ontario
39. University of Guelph, Co-operative Education & Career Services
40. Book this booth next year!
41. Book this booth next year!

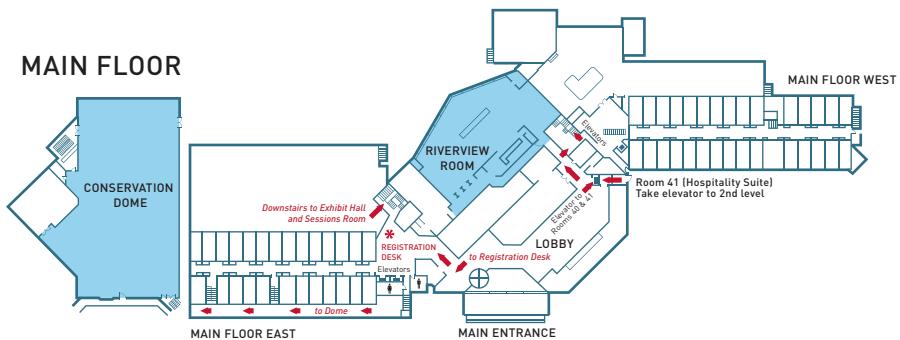
## CONSERVATION DOME



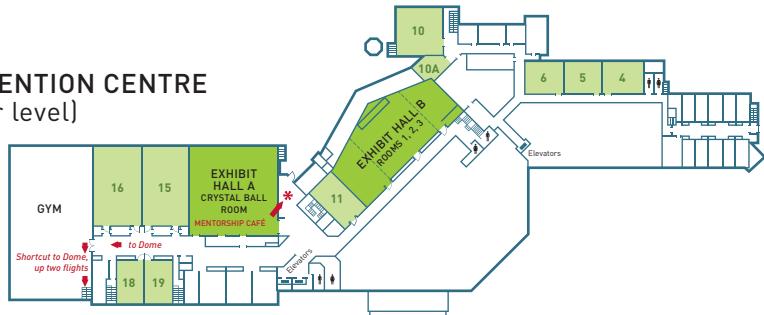
42. Book this booth next year!
43. Book this booth next year!
44. CoCoRaHS & Weather Innovations Inc.
45. Book this booth next year!
46. Quality Seeds Ltd.
47. North American Native Plant Society
48. Book this booth next year!
49. Book this booth next year!
50. Book this booth next year!
51. Conservation Ontario
52. Conservation Ontario
53. Oak Ridges Moraine Land Trust
54. Book this booth next year!
55. Ministry of Natural Resources and Forestry - Stewardship and Conservation Incentives
56. 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	10A	Graeme MacDonald	W1A	15	Bill Trenouth	TH1A	15	Andrea Boyer
T1B	4	Sarah Endicott	W1B	10A	Meredith Purcell	TH1B	10	Laura DeCoste
T1C	5	Lena Vanden Elsen	W1C	4	Katie Kish	TH1C	4	Monika Rau
T1D	10	Laura DeCoste	W1D	5	Claire Coombs	TH1D	5	Claire Coombs
T1E	6	Roger Holmes	W1E	6	Monika Rau	TH1E	10A	Katie Kish
T1F	18	Andre Breberina	W1F	18	Lauren Banks	TH1F	6	Ashley Stewart
T1G	19	Meredith Purcell	W1G	19	Isabelle Mailes	TH1G	18	Lauren Banks
T1H	11	Andrea Boyer	W1H	11	Ashley Stewart	TH1H	19	Sarah Endicott
T2A	10A	Isabelle Mailes	W2A	10A	Roger Holmes	TH2A	10A	Bill Trenouth
T2B	4	Monika Rau	W2B	10	Sarah Endicott	TH2B	15	Meredith Purcell
T2C	5	Lauren Banks	W2C	4	Laura DeCoste	TH2C	4	Lena Vanden Elsen
T2D	10	Ashley Stewart	W2D	15	Lena Vanden Elsen	TH2D	5	Roger Holmes
T2E	6	Katie Kish	W2E	5	Andrea Boyer	TH2E	6	Graeme MacDonald
T2F	18	Claire Coombs	W2F	6	Ashley Stewart	TH2F	18	Andre Breberina
T2G	19	Bill Trenouth	W2G	18	Katie Kish	TH2G	19	Isabelle Mailes
T2H	11	Graeme MacDonald	W2H	19	Meredith Purcell	TH2H	10	Claire Coombs
T3A	15	Meredith Purcell	W3A	Front Lobby	N/A	TH3A	10A	Sarah Endicott
T3B	10A	Sarah Endicott	W3B	15	Lena Vanden Elsen	TH3B	4	Laura DeCoste
T3C	4	Laura DeCoste	W3C	18	Graeme MacDonald	TH3C	5	Bill Trenouth
T3D	5	Roger Holmes	W3D	10A	Andrea Boyer	TH3D	6	Roger Holmes
T3E	6	Lena Vanden Elsen	W3E	4	Monika Rau	TH3E	18	Isabelle Mailes
T3F	18	Andrea Boyer	W3F	5	Lauren Banks	TH3F	19	Andre Breberina
T3G	19	Isabelle Mailes	W3G	Front Lobby	N/A	TH3G	15	Graeme MacDonald
T3H	11	Ashley Stewart	W3H	10	Andre Breberina	TH3H	10	Lauren Banks