



SUCCESSION

the nature of change



2017 Program

NOVEMBER 21-23, 2017



UNIVERSITY
OF GUELPH

LATORNELL 2017

SYMPOSIUM MANAGEMENT

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Symposium Co-Coordinator & Website Coordinator: Mario Maillet, Allset Inc.

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SYMPOSIUM PARTNERS



WELCOME: CHAIR'S MESSAGE



As Chair of the 24th annual A.D. Latornell Conservation Symposium I would like to welcome all of our delegates, sponsors and exhibitors to this year's event: Succession – the Nature of Change.

Over the next three days we will explore the challenging theme of succession of science, knowledge, policy and organisations and the nature of this change on the environment. The idea for this theme was rooted in discussions of natural succession.

The progressive change that happens in an ecological community is a metaphor to the way we have adapted aspects of our work in the conservation community over time. Our collective work in conservation has matured in purpose and our knowledge is continuously expanding. This ongoing growth happens through research, monitoring, observation, analyses and education. Succession of science and knowledge constantly informs our actions on the ground, the policies we developed and our legislative responses to emerging challenges.

Through our plenary, breakout sessions, workshops and field trips you are invited to explore where we have been, how that has informed who we are today, and where we are headed. We have 46 sessions with over 150 speakers available to delegates along with outstanding keynotes on all three days.

Years of feedback from our attendees has told us that delegates come to Latornell not only for the quality of the sessions and speakers but also for the amazing networking opportunities. I encourage you to take advantage of every opportunity you can to reconnect with colleagues and build new relationships. And for those of you so inclined, make sure you participate in the larger discussion through social media - [#Latornell2017](#)

This year, midway through our event planning, I got a surprise and was asked to return for a third term to Chair the Symposiums' Steering Committee. It is hard to find the words to once again express my thanks and sincere gratitude to the Committee members for their dedication along with their friendship over the last six plus years. Planning for this Symposium is a year-long process. It is only a matter of weeks after the end of the event when this Committee will get together again, pour through Symposium feedback and begin preparation for 2018. It literally takes a small village to grow the seed of Latornell throughout the planning year. Every Committee member plays a critical role and it has been an honour to play my small part in it all.

In addition to the Steering Committee members I would like to recognize all of the sponsors, exhibitors, volunteers and their organisations. Your contributions to the Symposium are what make this event a success year after year.

A handwritten signature in black ink that reads "Lisa Turnbull". The script is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Lisa Turnbull

Chair, 2017 Latornell Conservation Symposium

LATORNELL CONSERVATION SYMPOSIUM

SUCCESSION - THE NATURE OF CHANGE

Welcome to the 24th annual Latornell Conservation Symposium co-hosted by Conservation Ontario and the University of Guelph. This event provides a forum for practitioners, policy makers, nongovernment organisations, academics and businesses to network and discuss the challenges and opportunities in Ontario's conservation field.

Through this year's theme of Succession, we explore the topics of ecological, policy and organisational succession, and continuing contributions to knowledge.



ARTHUR D. LATORNELL



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

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

The University of Guelph manages the A.D. Latornell Endowment Fund and provided a contribution to the 2017 Latornell Conservation Symposium.

LATORNELL LOGO



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

LATORNELL PROFESSIONAL DEVELOPMENT

THE LATORNELL PROFESSIONAL DEVELOPMENT PROGRAM

The Latornell Professional Development Program fosters opportunities for career growth and networking. This year, we would like to acknowledge the support of R.J. Burnside Associates Ltd. and the University of Guelph's A.D. Latornell Endowment Fund for sharing in our passion for professional development and mentorship. The generous support of both organisations has allowed us to build new partnerships with groups like Emerging Leaders for Biodiversity (ELB), and to host rich professional development events, like our June Field N' Meal Day at the Terra Cotta Conservation Area. We are also excited to announce our next event, which will be held in the Greater Toronto Area in late January 2018. Be sure to sign up for the Latornell newsletter to stay connected as details are finalized!

If you are unable to make it to our events we encourage you to join our secure LinkedIn forum – the Latornell Mentorship group – which provides a safe space for mentorship and networking. The Latornell Mentorship group is a welcoming space where all members have declared their willingness to support professional development opportunities through sharing experiences and advice with others in a variety of formats (social or professional meetups, emails, phone calls, etc.). It is also a hub where current job postings from across Ontario's environmental and conservation sector are shared. A key strength of the Mentorship group is that it allows participants to form and pursue the relationships which are most enriching to them. It also allows for varying degrees of engagement, so professional development opportunities suit participant's schedules.

To request to join the Latornell Professional Development Program, sign up using the link below, and a group moderator will be happy to approve your request to join. And remember - it's all free! What's even more exciting is that you will be able to connect with people beyond the Latornell Community in other sectors.

Join us now at www.linkedin.com/groups/8317800

There are a couple of great professional development activities at this year's Latornell Symposium including:

1. The Latornell Grant Recipients Reception on Tuesday, November 21st at 5:30 PM (by invitation)
2. The young Conservation Professionals (YCP) Graduation Ceremony on Tuesday, November 21st at 12:00 Noon in the Conservation Dome following our opening plenary keynote speakers.
3. Join us on Tuesday, November 21st from 1:30 – 5:00 PM for our professional development sessions “How to Manage Your Career in Turbulent Times” (T1E), and “Conservation Authorities Success with Succession” (T2E)

For more information about the program, visit Latornell's Professional Development Page at www.latornell.ca/general-info/professional-development/

If you have any questions or would like to request access to the LinkedIn Group, please message Bill Trenouth using LinkedIn messenger. The Latornell Professional Development Program can also be reached at ADLMentorship@gmail.com

Thank you and we look forward to welcoming you into the Professional Development Program!

-The Latornell Steering Committee

2017 PROGRAM AT A GLANCE

DAY ONE - TUESDAY, NOVEMBER 21

8:00 AM - 9:30 AM	Registration Refreshments – provided in the Conservation Dome
9:30 AM - 12:00 PM	Welcome, Introductions and Opening Remarks » Traditional Opening, Song and Blessing by Kim Wheatley » Lisa Turnbull , Symposium Chair and Master of Ceremonies » Dick Hibma , Chair of Conservation Ontario » Keynote Speaker Kim Wheatley , Anishinaabe Cultural Consultant » Keynote Speaker Leona Dargis , Inspirational/Motivational Speaker - Leadership - Advocate
12:00 PM - 1:15 PM	Luncheon Young Conservation Professionals (YCP) Graduation Ceremony
1:30 PM - 3:00 PM	Concurrent Sessions » T1A: What's Next for Integrated Watershed Management » T1B: Building Confidence – Critical Processes for Successful LID Implementation » T1C: Hunting and Trapping Ontario's Species at Risk » T1D: New Horizons or Déjà Vu? » T1E: How to Manage Your Career in Turbulent Times » T1F: Talking Nerdy
3:00 PM - 3:30 PM	Refreshment Break with Exhibitors
3:30 PM - 5:00 PM	Concurrent Sessions » T2A: Telling Stories Through Subwatershed Monitoring » T2B: The Evolution & Succession of Flood Management & Community Protection in a Changing Climate » T2C: Scanning the Horizon: What Invasives Are Next? How Can We Learn from the Mistakes of the Past? » T2D: Transcending Generations: Soil Health as a Matter of Succession Planning » T2E: Conservation Authorities Success with Succession » T2F: Communicating Effectively about Biodiversity and Climate Change
5:30 PM - 7:00 PM	Exhibitor Galleries A and B Wine & Cheese / Live Animal Exhibit (Gallery B)
7:00 PM - 8:30 PM	Harvest Banquet Dinner » Minister Kathryn McGarry , Ministry of Natural Resources and Forestry » Soil and Water Conservation Society (SWCS) A.D. Latornell Award of Merit Presentations
8:30 PM	Wine + Craft Beer Prize Ticket Sale and Draw in the Conservation Dome
Approximate 8:30 PM start time	Choose Your Own Adventure Social Events (see pages 19 & 20) » Latornell Brewmaster Session with Barnstormer Brewery » Traditional Bonfire Storytelling with Brian Charles » Jungle Quest Team Mini-Golf Tournament » Continue to Mix and Mingle in the Exhibit Halls & Ontario Café » The Latornell After Party (The LAP!)
9:00 PM - 1:00 AM	The Latornell After Party (The LAP) in Starlite Lounge (see page 20)

The following events take place in the Conservation Dome on Tuesday and Wednesday: Morning Refreshments (Tuesday only), Welcome and Introductions, all Plenary Sessions and Keynote presentations, Lunches and Dinners, Young Conservation Professional (YCP) Graduation, Post Graduate Student Poster Display and Competition, Silent Auction, Gala Banquet, Gala Evening Entertainment

2017 PROGRAM AT A GLANCE

DAY TWO - WEDNESDAY, NOVEMBER 22

7:00 AM - 8:30 AM	Registration Refreshments – provided on Convention Level (lower level)
8:30 AM - 10:00 AM	Concurrent Sessions » W1A: Chemical Changes in Lakes and Rivers » W1B: Water Services Management » W1C: Biodiversity Offsetting - Issues and Opportunities, Including a First Nations Perspective » W1D: Soil Biology - The New (but Old) Frontier! » W1E: Bringing It Back: Building Support for Forest Canopies » W1F: Tools of Engagement
10:00 AM - 10:30 AM	Refreshment Break with Exhibitors
10:30 AM - 12:00 PM	Concurrent Sessions » W2A: Understanding Fluvial Systems - Succession in Practice » W2B: An Integrated Monitoring and Modeling Approach for Water Cycle Management » W2C: Succession on the Niagara Escarpment » W2D: Farm Sustainability from Soils to Economics - The Good, The Bad and The Ugly » W2E: Succession in Action: Restoring and Regenerating Forests » W2F: Before the Flood: Engaging the Community in Stormwater Management
12:00 PM - 1:45 PM	Luncheon » Keynote Speaker Terry O'Reilly , Radio Broadcast Host, Keynote Speaker, and Author
2:00 PM - 3:30 PM or 5:00 PM	Concurrent Sessions / Field Trips » W3A: Brook Trout - Past, Present and Future » W3B/W4B: Centennial Pond/Lovers Creek Restoration Tour (meet in hotel front lobby for bus boarding) [until 5 PM] » W3C/W4C: On a Wing and a Prayer: The Plight of Our Birds [until 5 PM] » W3D: Building Grazing Back into Farming for Soil Health » W3E/W4E: It Takes a Forest Tour (meet in hotel front lobby for bus boarding) [until 5 PM] » W3F: 5 Brain Gardening Practices for Cultivating Effective Teams » W3G/W4G: Conserving Our Future: A Modernized Conservation Authorities Act [until 5 PM]
3:30 PM - 5:00 PM	Concurrent Sessions » W4A: Biological Changes in Lakes and Rivers » W4D: We Manage Water Through Regulation and Policy - What About Soil? » W4F: Conservation Philanthropy - Values in Action
5:00 PM - 6:30 PM	Post Graduate Student Poster Display and Competition
5:00 PM - 8:00 PM	Dream Auction
6:30 PM - 9:30 PM	Gala Banquet & Entertainment - Comedy Hypnotist Robert Maxwell
10:00 PM - 1:00 AM	Latornell After Party (LAP) in Starlite Lounge (see page 20)

2017 PROGRAM AT A GLANCE

DAY THREE - THURSDAY, NOVEMBER 23

7:00 AM - 8:30 AM	Registration Refreshments – provided on Convention Level (lower level)
8:30 AM - 10:00 AM	Concurrent Sessions <ul style="list-style-type: none"> » TH1A: Floodplain Management - Modelling, Policy and Practice » TH1B: Modernizing Water Management in the Face of Uncertainty » TH1C: Making the Data Work: The Value of Long Term Data Collection » TH1D: Holding The Line: Tools for Managing Landscape Erosion » TH1E: Restoring Rivers in the Nottawasaga Valley and Credit River Watersheds » TH1F: EcoHealth: Designing Communities for Healthy Living
10:00 AM - 10:30 AM	Refreshment Break with the Exhibitors
10:30 AM - 12:00 PM	Concurrent Sessions <ul style="list-style-type: none"> » TH2A: Successional Changes in Stormwater Management » TH2B: Old Dogs, New Tricks: Overcoming Barriers to Green Infrastructure » TH2C: Achieving 17%: Strategies to Meet Canada's Protected Areas Target » TH2D: Soil Health Sampling and BMP Adoption » TH2E: Growing Your Targeted Stewardship Program » TH2F: Conserving Biodiversity is a Public Health Imperative
12:00 PM - 2:00 PM	Luncheon Latonnell Leadership Awards Presentation
2:00 PM - 4:00 PM	Plenary Panel: Water Takings in Ontario – Facilitated by TVO's Steve Paikin (see pages 41-42)
4:00 PM – 4:15 PM	<ul style="list-style-type: none"> » Traditional Closing Ceremonies » Wrap up » Meet the Panelists (see below)

Meet the Water Takings Panelists

After the Symposium wrap-up, you are welcome to stay and chat with the panelists. In addition, two of Steve Paikin's books will be available for purchase and Steve will be available to sign and personalize your copy.

Bill Davis: Nation Builder, and Not So Bland After All (2016) [Cost \$40]

A biography of one of Ontario's most popular premiers, who is remembered as the 'father of community college system', TVO and the Ontario Institute for Studies in Education (OISE). He also appointed Ontario's first Minister of the Environment (George Kerr, Halton West MPP).

2016 Ontario Historical Society Donald Grant Creighton Award Winner

Paikin and the Premiers: Personal Reflections on a Half Century of Ontario Leaders (2013) [Cost \$20]

'Paikin and the Premiers offers a rare, uniform perspective on John Robarts, Bill Davis, Frank Miller, David Peterson, Bob Rae, Mike Harris, Ernie Eves, Dalton McGuinty, and Kathleen Wynne – from the vantage point of one of Canada's most astute and respected journalists.'

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

Lunch, Leadership Awards Ceremony, Plenary Water Panel with Steve Paikin and Wrap Up

STUDENT MODERATORS

MEET THIS YEAR'S STUDENT MODERATORS

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

This year's moderators are from a broad range of disciplines including Geography, Landscape Architecture, Rural Planning, Engineering and Biology. Guided by Sara Epp, one of our Steering Committee members and herself a PhD candidate, our student moderators will play an instrumental role in the success of the Symposium and the Steering Committee is honoured to be working with them.

2017 STUDENT MODERATORS

Laura Brodey, University of Toronto

Ryan Carlow, University of Waterloo

Thadsha Chandrakumaran, University of Waterloo

Brianna Collis, University of Guelph

Cameron Curran, University of Guelph

Sara Epp, University of Guelph

Khuram Farrukh, Brock University

Jordan Graham, University of Guelph

Kirsten Grant, University of Waterloo

Alysse Mathalon, Dalhousie University

Meaghan Mechler, University of Waterloo

Sarah Minnes, Memorial University of Newfoundland

Stephen O'Neill, University of Guelph

Sarah Rixon, University of Guelph

Sarah Yuckin, University of Waterloo

DREAM AUCTION SNEAK PEEK

Join Us for Our Dream Auction at the Wednesday Gala Banquet

Check out this Silent Auction item! Valued at over \$3,500 this special addition canoe package will be showcased on Tuesday and Wednesday. With the generous support of Aquatech and GEMS, we were lucky enough to secure one of only 150 made. Here's your chance to to own a limited edition Swift Canada 150 canoe.



VISITING WITH EXHIBITORS

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

The first area is on the Lower Level (Galleries A, B and Ontario Café space).

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

TUESDAY

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

WEDNESDAY

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

THURSDAY

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

VISIT THE ONTARIO CAFÉ

Make this one of your gathering spots! With the support of the Government of Ontario, we have created an interactive space in the corridor between Exhibit Gallery A and B where you can experience hands on activities and exciting new displays. Some provincial staff will be on hand to encourage your participation and discuss new provincial initiatives.

Check This Out!:

- Hey! It's time to "Soil Your Undies". Come see how Bill and Bernadeta soiled theirs.
Meant to promote soil conservation awareness, this experiment was conducted to raise awareness of soil health across our country. Come see our display of white tighties and how they fared after being buried in different locations in southern Ontario.
- Who says only kids can play in a sandbox! A hands on virtual reality sandbox where you can manipulate the "land" and "rain" to see how it affects the flow of water across the landscape.
- To the kid in all of us – come participate in a scavenger hunt and have a chance to win some PRIZES. The hunt will take place throughout the Inn over the 3 days. You can get your registration card and rules in the Ontario Café area.
- Let's chat – come learn about several initiatives such as the Conservation Authorities Act review, the new Wetland Conservation Strategy for Ontario, and Ontario Biodiversity Council's [#BiodiversityMakesUs](#).



Ontario

The Province of Ontario is proud to support the Latornell Conservation Symposium, building on our commitments to protecting the environment, strengthening biodiversity and leading conservation efforts.



MOUNTSBERG RAPTOR CENTRE COMES TO LATORNELL

**Tuesday, November 21st from 5:30 PM – 7:00 PM in Exhibit Hall B
(Wine & Cheese)**



The Mountsberg Raptor Centre, operated by Conservation Halton and located at Mountsberg Conservation Area, is a facility dedicated to raising awareness about the diversity of Ontario native birds of prey, and the challenges they face due to human activity. Mountsberg's raptors are permanent residents and are unable to be released into the wild.

Many of the birds came to the Raptor Centre from rehabilitation situations where their injuries prevented a successful return to the wild. Other residents are imprinted on humans rather than on their own species, or were raised in captivity and have never known life in the wild.

The Centre's goal is to provide visitors with a unique "nose-to-beak" experience with these wonderful creatures. These birds are ambassadors for their species and we hope that by meeting them, everyone gains a greater respect and understanding for birds of prey in the wild.

GEO

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Observations

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SERVICES

- Geomorphological Characterization of Rivers and Shorelines
- Restoring Rivers and Shorelines
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- Emergency Environmental Mitigation
- Modelling Dynamic Landforms
- Sediment Transport, Hydrometric and Water Quality Monitoring
- Outreach and Training
- Remote Sensing and Telemetry-based Environmental Observation

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DAY ONE

OPENING PLENARY SESSION

KEYNOTE SPEAKERS 9:30 AM - 12:00 PM

Grandmother Kim Wheatley **Anishinaabe Cultural Consultant**

Kim Wheatley is an Anishinaabe Traditional Grandmother from Shawanaga First Nation Reserve. She has worked in Southern Ontario for over two decades providing traditional teachings utilizing song, storytelling and Anishinaabe Traditional Knowledge. She is turtle clan and carries the spiritual name “Head or Leader of the Fireflower”.



She received the City of Pickering Heritage Award in 2015 and hopes to leave a legacy of pride, respect and understanding of the Indigenous People of Canada. Kim has represented Canada internationally and locally as a First Nations Cultural Ambassador in sports and citizenship. She has appeared on TV, radio and magazine spots.

Currently Kim is an active Anishinaabe Cultural Consultant & the Southern Regional Vice Chair for the Provincial and territorial organisation called the Aboriginal Sport & Wellness Council of Ontario (ASWCO), with whom she assisted in securing the North American Indigenous Games (NAIG) 2017 which took place in Toronto in July.

Leona Dargis **Inspirational/Motivational Keynote Speaker -** **Leadership – Advocate**

Leona is the eldest of five daughters raised on their family farm in northeastern Alberta near St. Paul. At one point Dargis Seed & Feed Ltd. owned and fed 4,000 head of cattle all while managing over 7,000 acres of land, both in pasture and crop. Together they learned the values of hard work, perseverance and gratitude from their parents the late Jean & Joanne Dargis.



Leona graduated from Olds College with a Bachelor of Applied Science in Agribusiness and in 2011 was awarded a Canadian Nuffield Scholarship. This enabled her to study succession planning around the world. As a new resident of the Yukon Territory, Leona embarks on a new farming adventure. She strives to breakdown the barriers within Canada's agricultural industry and is a proud Advocate. She will share her global stories that exemplify how to take unimaginable change, adapt to it and succeed.

THIS EVENT IS

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TUESDAY LUNCHEON PROGRAM

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 organisations 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 217 emerging conservation leaders.

A total of 15 people will be graduating from the 2017 Young Conservation Professionals Leadership Program this year, marking the 13th year of the program.

The 2017 YCP program graduates are:

- **Delaina Arnold**, Education & Stewardship Coordinator, Georgian Bay Biosphere
- **Sasha Benevides**, Community Outreach Coordinator, Conservation Halton
- **Normand Castanos**, Projects Designer, Hamilton Conservation Authority
- **Michael Fry**, GIS / Forestry Technician, Grey Sauble Conservation
- **Spencer Macdonald**, Lands and Operations Technician, Nottawasaga Valley Conservation Authority
- **Sophia Maio**, Specialist, Environmental Outreach, Credit Valley Conservation
- **Sean Norman**, Environmental Planner, Conservation Halton / Niagara Region
- **Kaitlyn Read**, Integrated Watershed Management Specialist, Lake Simcoe Region Conservation Authority
- **Karissa Reischke**, GIS Environmental Data Coordinator, Conservation Ontario
- **Jennifer Robinson**, Network Manager, NSERC Canadian Network of Aquatic Ecosystem Services (University of Toronto)
- **Rachael Scholten**, Stewardship Technician, Ausable Bayfield Conservation Authority
- **Ravi Singh**, Outreach Coordinator, Forests Ontario
- **Amy Tenbult**, Environmental Programs Assistant, Ontario Soil & Crop Improvement Association
- **Jenna Turgeon**, Wildlife Biologist, Natural Resource Solutions Inc.
- **Adam Wilford**, Coordinator, Community Outreach, Credit Valley Conservation

For more information about YCP, please visit us at www.ycpleadership.ca.

DAY ONE

Watershed Management

T1A ROOM 15

What's Next for Integrated Watershed Management

This past year has seen a lot of change for conservation authorities with the Conservation Authority Act Review and for municipalities with the Coordinated Land-Use Planning (Four Plan) Review. Watersheds are a central theme in both of these initiatives and new watershed planning guidance is being developed by MOECC and MNRF. This session will update us on expectations and emerging guidance for watershed planning in Ontario and explore how CAs are preparing to help deliver the next generation of watershed planning.

Watershed Planning and the Coordinated Plan Review for the Growth Plan, Greenbelt Plan, Oak Ridges Moraine Conservation Plan and the Niagara Escarpment Plan

John Taylor
(Ministry of Municipal Affairs)

Developing New Watershed Planning Guidelines for Ontario

Ryan Stainton
(Ministry of Natural Resources and Forestry)
and Nisha Shirali
(Ministry of the Environment and Climate Change)

Evolving Watershed Planning at TRCA: Adapting to a New Context

Ryan Ness
(Toronto and Region Conservation)

Water and Climate Change

T1B ROOM 2

Building Confidence – Critical Processes for Successful LID Implementation

Join us as we highlight the critical processes and ‘lessons learned’ for successful LID implementation. A synopsis of the critical processes and integrative approaches needed will be reviewed, followed by a summary of practical lessons garnered from projects implemented within the Lake Simcoe Watershed.

Kyle Vander Linden and Bill Trenouth
(Credit Valley Conservation)

Steve Auger and Brook Piotrowski
(Lake Simcoe Region Conservation Authority)

Natural Heritage

T1C ROOM 1

Hunting and Trapping Ontario's Species at Risk

Join us to examine how policies related to hunting of two species at risk (snapping turtles and wolves) have changed over time, the impacts on those species and how to move forward.

Games with Game: A Story about Snapping Turtles

Anne Bell
(Ontario Nature)

Mistaken Identity: Why Killing Threatened Wolves Is Still Allowed

Hannah Barron
(Earthroots)

Public Participation in Protecting Species at Risk

Rebekah Church
(Environmental Commissioner of Ontario)

1:30 PM – 3:00 PM

Soil and Soil Health

T1D ROOM 7

New Horizons or Déjà Vu?

Soil conservation has been at the heart of agricultural stewardship for nearly a century - the '30s, '80s and again today. But this time it's different. Soil conservation today views soil as an ecosystem, and understanding this system may very well dictate the future of farming under a changing climate.

Evolution of past Soil Policies and the New Soil Strategy

Paul Smith

(Ministry of Agriculture, Food and Rural Affairs)

Conservation Authorities – A Role to Play in Soil Conservation?

Tracey Ryan

(Grand River Conservation Authority)

The Great Lakes Agricultural Stewardship Initiative: A Story of BMP Adoption for Soil Health

Amy Tenbult

(Ontario Soil and Crop Improvement Association)

Soil 2050 - Where Can We Go From Here?

Don McCabe

(Ontario Federation of Agriculture)

Professional Development

T1E ROOM 8

How to Manage Your Career in Turbulent Times

The work world today is in the midst of change. Individuals of all ages are struggling to find their way. Traditional career paths are no longer options today.

In this practical and participatory workshop, you will learn essential strategies and skills that will help you to manage your career in these challenging times. Emphasis will be placed on building career resiliency and practical next steps. This material is especially helpful for those early in their career as well as individuals involved in career coaching and mentoring relationships.

Rob Straby

(Career Development Professional)

Marketing, Outreach and Communications

T1F ROOM 9

Talking Nerdy

Somewhere between society's stereotype of solitary scientists working away in their laboratories and the research they struggle to convey, lie the discoveries, the aha moments, the messages. So why is there such a disconnect? Why are evidence-based findings and the significance of them getting lost? This session explores how we all can communicate scientific data in clearer, more effective ways.

Lost in Translation - Science-based Storytelling that Makes an Impact

Elizabeth Oakley

(Toronto and Region Conservation)

Marketing the Environment

Aileen Barclay

(Resource Management Strategies Inc.)

Connecting People to Nature

Brad Fauteux

(Consultant)

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Visitez le kiosque 44 ou oag-bvg.gc.ca



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DAY ONE

3:30 PM – 5:00 PM

Watershed Management

T2A ROOM 15

Telling Stories Through Subwatershed Monitoring

Subwatershed planning hinges on understanding past and current conditions, and predicting future changes. Presenters in this session share how information – from Traditional Ecological Knowledge to environmental monitoring – is helping to guide subwatershed planning and implementation in rural and urbanizing areas.

Sub Watershed Planning Put into Action

Kerry-Ann Charles
(Cambium Aboriginal)

Benthic Invertebrate and Fish Communities in an Urbanizing Stream in the South Nation Watershed
Katherine Watson and Brent Harbers
(South Nation Conservation)

Cumulative Effects Monitoring: Lessons Learned from Development Monitoring in the Grand River
Cameron Irvine
(Grand River Conservation Authority)

Water and Climate Change

T2B ROOM 2

The Evolution & Succession of Flood Management & Community Protection in a Changing Climate

Future forecasting or historic insight? Maybe a bit of both. This topic will explore predictive approaches that communities and conservation authorities are using to understand and reduce flood risks, and improve flood protection while facing the uncertainties of a changing climate.

Flood Risk Mapping in Eastern Ontario – Challenges and Lesson Learned
Sandra Mancini and Golam Sharif
(South Nation Conservation)

AgriRisk: Tools to Assess and Reduce the Risk of Changing Climate on Agricultural and Rural Infrastructure
Ronda Boutz
(South Nation Conservation),
Travis Juffinger
(ISM Canada)
and **Steven Frey**
(Aquanty)

Protecting Urban Communities from Flooding in a Changing Climate - Making the Case for Transposing Observed Storm Events
John Kinkead
(J. Kinkead Consulting)

Natural Heritage

T2C ROOM 1

Scanning the Horizon: What Invasives Are Next? How Can We Learn from the Mistakes of the Past?

What are the next big invasives to look out for? How can we learn from past mistakes to proactively manage these new pests and protect our lands? This session explores some newly emerging invasive species and explores some key approaches to thwarting further devastation of our lands.

Detection, Correction, Prevention - Lessons Learned From EAB Management
Bryana McLaughlin
(Credit Valley Conservation)

DFO's Asian Carp Program – Lessons Learned after Five Years
Becky Cudmore
(Fisheries and Oceans Canada)

Another Layer of Detection: Leveraging Citizen Science to Prevent the Next “Big” Invasive Species
Colin Cassin
(Ontario Invasive Plant Council)

Soil and Soil Health

T2D ROOM 7

Transcending Generations: Soil Health as a Matter of Succession Planning

How do different generations of the same family view and manage a resource like healthy soil? Join IFAO member Eric Kaiser, his son Max and grandson to find out what has changed and what stays the same on their family farm near Napanee.

Soil Health from Generation to Generation - Challenges and Opportunities

Kaiser Family - Eric, Max & Rob
(Kaiser Lake Farms)

Professional Development

T2E ROOM 8

Conservation Authorities Success with Succession

Succession in the environmental sector doesn't just apply to ecosystems but also to the organisational and human resources which support it. This session intends to look at how to ensure effective corporate succession by examining administrative strategies and two case studies: Conservation Authority Universities program and the Young Conservationist Professionals program.

Nurturing New Leaders

Deb Martin-Downs
(Credit Valley Conservation)

Where They Are Now – and How They Got There!

Andrew Kett
(Young Conservation
Professionals)

Corporate Administrative Knowledge That Can Help Succeeding Staff

Steve Knechtel
(Consultant)

Marketing, Outreach and Communications

T2F ROOM 9

Communicating Effectively about Biodiversity and Climate Change

According to surveys and polls, we're making some progress on awareness about these issues, but are we making progress on lifestyle changes or other actions that are necessary to move forward. This session will look at some of the issues and solutions to talking about two of the bigger issues of our times – biodiversity and climate change.

The Evolution of Biodiversity and Climate Change Communications

Sandra Johnson
(Ministry of Natural Resources
and Forestry)
and John Ryan
(Office/Bureau Inc.)

DAY ONE

HARVEST BANQUET DINNER EVENTS

KEYNOTE ADDRESS 8:00 PM

Hon Kathryn McGarry
Minister of Natural Resources and Forestry

Kathryn McGarry was first elected to the Ontario legislature in 2014 as the MPP for Cambridge. She currently serves as Minister of Natural Resources and Forestry. Ms. McGarry was previously Parliamentary Assistant to the Minister of Transportation.



In her private life, she has been a care coordinator in the community and a nurse for 30 years. Ms. McGarry is very active in her community, particularly as an advocate for health care and cultural heritage. She is a founding member of the Hospice of Waterloo Region, and a past president of Heritage Cambridge.

Ms. McGarry received the YWCA Woman of Distinction Award in 2009, and a Bernice Adams Memorial Award in 2011 for her community service.



NATURAL CHANNELS Sustaining Connectivity

6th Conference on Natural Channel Systems
May 23-25, 2018 · University of Guelph

Next spring, we will take a multidisciplinary look at natural channel systems with a widened view of cause and effect, employing the knowledge of past work with present research to connect the landscape to the channel.

CALL FOR ABSTRACTS – deadline is December 4th, 2017

We welcome applications in the following conference streams:

- Collaborative Design
- Communications
- Economics
- Environmental Flows
- Innovation
- Monitoring and Lessons Learned
- Policy and Regulation
- Resilience
- Urban Hydro-modification

www.naturalchannels.ca

A.D. LATORNELL AWARD OF MERIT 8:20 PM

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



The award is available to students at the diploma, bachelor or master program level. The winner of the Award receives a one year membership to SWCS, a cash award of \$600 and a one day registration to the A. D. Latornell Conservation Symposium. On occasion, such as this year, we have also awarded a runner-up prize that is a one year membership in SWCS.

This Year's Award Recipient Is:

Jocelyn Pitcher, Plant Agriculture (M.Sc.), University of Guelph

Jocelyn Pitcher is beginning a Masters degree in Plant Agriculture at the University of Guelph, studying the potential benefits of multi-species cover crop mixtures. Upon completing her undergraduate degree in Molecular Biology and Genetics at Guelph, Jocelyn was determined to turn her growing passion for the environment and sustainable agriculture into her career. She explored this goal, by taking a year off to complete an ecological farming internship at Shaw's Creek CSA, work for a greenhouse, and complete open online courses in climate change, food security, and sustainable soil management.

Jocelyn also loves to take part in her community, and has shown her commitment to natural resource conservation through her volunteering for the Guelph Organic Conference, environmental science workshops for secondary school girls, a reading week program with a First Nations elder, and the City of Guelph's "Wacky Water Week" and Speed River Project.

Additionally, this is her second year tending a modest vegetable and herb garden where she practices rotation, cover cropping, and mulching. Jocelyn is passionate about sustainable agriculture and conservation practices and loves viewing soil as a living ecosystem that deserves nurturing and protection. She especially loves cover cropping, seeing it as one of the main solutions to both healthy soil and clean water.

Jocelyn is thrilled that her switch in career direction and her dedication are leading to opportunities she had only dreamed of regarding soil health and conservation initiatives. She looks forward to the connections she will make through being recognized by the Soil and Water Conservation Society, and the knowledge she will build through her membership.

This Year's Runner-Up Is:

Jaclyn Clark, Plant Agriculture (M.Sc.), University of Guelph

Jaclyn is in her second year of a Masters Program at the University of Guelph focussing on sustainable cropping systems. She has worked for the Toronto Region Conservation Authority in restoration services and Camp Wenonah in outdoor education. She hopes to grow as "a member of a larger community eager to protect water and soil resources for future generations."

DAY ONE

WINE AND CHEESE + CHOOSE YOUR OWN ADVENTURE EVENTS

WINE AND CHEESE NETWORKING RECEPTION

5:30 PM – 7:00 PM

Delegates are invited to join us for networking and ‘noshing’ at the Exhibitor’s Wine and Cheese event taking place in the lower level of the Nottawasaga Inn & Conference Centre on Tuesday, from 5:30 PM - 7:00 PM.

SHOREPLAN

MOUNTSBERG RAPTOR CENTRE @ LATORNELL EXHIBIT HALL B 5:30 PM – 7:00 PM

Come join us in Exhibitors’ Gallery B for our annual live animal exhibit. Each year an Ontario facility provides us with a “show and tell” display of animals of various species. This is sure to provide a fun and interactive way of showcasing animals in an educational and safe manner.

Their profile can be found on page 10.

VQA WINE DRAW AND ONTARIO CRAFT BEER DRAW

8:30 PM

A limited number of ‘hot’ tickets will be available for a ‘timed sale’ at the Harvest Banquet. Tickets will be \$20. The draw will take place at 8:30 PM in the Conservation Dome, and you must be present to win.

Prize – A Selection of Fine Ontario Wine and Ontario Craft Beer. The Winning card will be drawn by Shoreplan Engineering Limited, this year’s sponsor of the Wine and Cheese Networking Reception.

CHOOSE YOUR OWN ADVENTURE Just after 8:30 PM

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

» **Traditional Bonfire Storytelling – Wampum Belts Woven through Anishinaabe History**

(Location: the fire pit located in the gardens in front of the hotel)

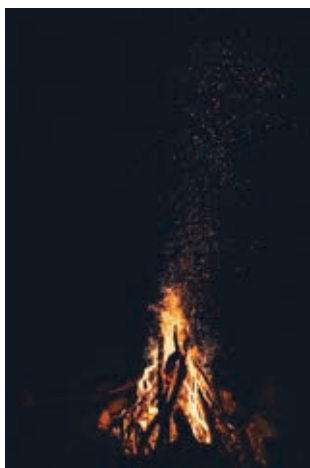
Pull up a seat fireside and enjoy roasted marshmallows for Traditional Bonfire Storytelling with Brian Charles of the Chippewas of Georgina Island. Brian has been working collaboratively with a small group of knowledge keepers to redevelop an archive and physical repository of wampum belts related to Ojibway history. Using replica wampum belts in this special presentation, he will illuminate a path that not only interconnects the nations and histories of First Peoples in the Eastern Woodland, but also of settler societies in Canada.

Brian is an off-reserve Band member of the Chippewas of Georgina Island and has lived in the Barrie region for over forty years. He has worked as an Aboriginal Liaison at both the provincial and federal levels for over twenty years. He currently resides along the western shoreline of Lake Simcoe on the outskirts of the village of Hawkestone.

This is an alcohol-free event.

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

(Location: Exhibitor’s Galleries A and B)



CHOOSE YOUR OWN ADVENTURE EVENTS

» Jungle Quest Team Mini-Golf Tournament

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

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

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



» Latornell Brewmaster Session with Barnstormer Brewery



Do you already have a passion for craft beer or are you just curious to find out what the big fuss is all about? Sign up and join Barnstormer Brewing & Distilling Company's Brewmaster to learn a little bit about the Ontario craft beer industry and sample eight interesting and unique craft beers. On this journey you will

learn a little bit about the brewing process and how beer is made. Based out of Barrie, Barnstormer is locally-famous for brewing all natural and unfiltered ales, lagers, stouts and porters that blend interesting and daring ingredients to create some really unique flavours. Sweet, sour, bold, smooth, bitter, floral, heavy, light... join us for a tour of the senses. Space is limited to 40.

On-site registration can be found at the Symposium Registration Desk up to 4:00 PM Tuesday November 21st. Cost is \$25. **Get your tickets early: There is limited capacity**

Location: Room 41

Event sponsored by: Hutchinson Environmental Sciences Ltd.



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

The networking and late-night socializing formerly held in the Hospitality Suite (Room 41) has been moved to the Starlite Lounge. You will find the Starlite Lounge tucked away on the 3rd floor, past the gift shop and up the stairs. On Tuesday after dinner and on Wednesday after the Gala Banquet & Entertainment, make your way over to the LAP for music, board games and cards, and plenty of fun.

The bar will be open until 1:00 AM for your fun and amusement.

See you at The LAP!

Location: Starlite Lounge



DAY TWO

8:30 AM – 10:00 AM

Watershed Management

W1A ROOM 15

Chemical Changes in Lakes and Rivers

New phosphorus targets for Lake Erie have refocused interest on evaluating long term trends in water quality. This session highlights examples of assessment of surface water quality in some of Ontario's other streams and in-land lakes.

Ontario's Cottage Country Lakes – Long-term Trends in Water Quality from Ontario's Lake Partner Program

Anna DeSellas
(Ministry of the Environment and Climate Change)

Long-term Changes in Water Quality in Selected Streams Across Ontario

Georgina Kaltenecker
(Ministry of the Environment and Climate Change)

Phosphorous and Nutrient Loading into the Stoney Creek

Imtiaz Shah
(Upper Thames River Conservation Authority)
and Karlo Bobinac
(University of Western Ontario)

Water and Climate Change

W1B ROOM 2

Water Services Management

Who's up for trying to balance the need for water conservation, efficiency, supply, capacity, performance, (and the list goes on)? Municipal leaders will outline how collaboration, innovative programs, and green technologies aim to improve our water service delivery in a changing climate.

The Many Forms of Municipal Collaboration in Water Services

James Johnstone
(Town of Innisfil)

Municipal Climate Innovation Program: Watershed Management

Jim Wren
(Federation of Canadian Municipalities)

Real Time Water Use Monitoring with the Flowie Water Sensor

Amy Martin
(City of Guelph)

Natural Heritage

W1C ROOM 1

Biodiversity Offsetting - Issues and Opportunities, Including a First Nations Perspective

Biodiversity offsetting has been used as a tool for well over 25 years it is increasingly debated and contested. This session will examine a wide range of issues including: policy development and framework; new techniques; lessons learned; checks and balances; issues regarding compensation including the cash-in-lieu approach; and Indigenous communities' interests and perspectives.

Michael Wynia
(Skelton, Brumwell and Associates & Fleming College)

Soil and Soil Health

W1D ROOM 7

Soil Biology - The New (but Old) Frontier!

After decades of using technology and plant genetics to improve growth and production, the use of cover crops has once again become popular and important for water quality, reduction of soil erosion, and crop yields.

Why do BMPs like cover crops, crop rotation and planting green matter? It's the biology!

The Ecosystem of Soils – What We Can See and What We Can't

Nicole Rabe
(Ontario Ministry of Agriculture, Food and Rural Affairs)

What Is Soil Mycorrhizae and Why Does It Matter?

Bob Reeves
(Root Rescue / Landscape Ontario)

The Link Between Soil Biology and Crops

Glenn Munroe
(Compost Council)

Forestry

W1E ROOM 8

Bringing It Back: Building Support for Forest Canopies

Growing forest cover requires a blend of science-based assessment and valuation, strategic planning, and engagement. This session explores best practices in developing and implementing forest cover, urban greening and Emerald Ash Borer plans in rural and urban areas.

Forest Cover Trends Analysis – Putting Report Recommendations to Action

John Mesman
(South Nation Conservation)

Increasing Tree Canopy and Woodland Cover: A New Forest Management Plan Sets the Stage with Strategies and Actions

Heidi Breen
(The Regional Municipality of York)

Georgina Island First Nation's Response to the Emerald Ash Borer

Heather Charles
(Chippewas of Georgina First Nation)
and Chris Gynan
(Silv-Econ Ltd)

Marketing, Outreach and Communications

W1F ROOM 9

Tools of Engagement

Knowing the right tools to use is a good place to start when engaging the public, but depending on your audience and your desired outcomes the tools can vary. Advancing technologies, evolving hot topics, reaching out and engaging the public with complex environmental issues has changed dramatically. What has stayed the same is the desire to include all communities in our engagement initiatives. This session will explore examples of where to focus our efforts.

Engaging Residents to Solve Local Environmental Challenges

Lindsay Telfer
(Fresh Water Alliance)

Indigenous Engagement and Aboriginal Cultural Sensitivity Tools

Gary Pritchard
(Skelton Brumwell & Associates)

From Factsheets to Story Maps: How Our Stewardship Outreach Has Evolved in the past 20 Years

Sue Brocklebank
(Grand River Conservation Authority)

DAY TWO

10:30 AM – 12:00 PM

Watershed Management

W2A ROOM 15

Understanding Fluvial Systems - Succession in Practice

Our understanding of fluvial systems has evolved as practitioners observed, monitored and developed their expertise. As we have learned more, a resurgence of interest is occurring, especially to address the challenges of managing our river systems in light of climate change and urbanization. This session will explore what we have learned over the past decades of fluvial geomorphology and natural channel design implementation and where we are going.

A Review of the Application of Fluvial Geomorphology in Ontario's Conservation Authorities: Taking Stock of Where We Are and Setting the Stage for a Path Forward
Sally-Beth Betts
(Credit Valley Conservation)

Uncertainty in Geomorphology: "What We Know for Sure That Just Ain't So"
Roger TJ Phillips
(University of Toronto)

The Riffle – Succession of the Practice of Natural Channel Design in Ontario
Mark Hartley
(Water Regime)

Water and Climate Change

W2B ROOM 2

An Integrated Monitoring and Modeling Approach for Water Cycle Management

How is Ontario dealing with climate change impacts on water cycle management, specifically groundwater-surface water interactions? This session will emphasize the succession of science with regards to environmental data collection, and contributions from government, academia, and the consulting sector required to achieve an integrated approach.

Scott MacRitchie and Huaxia Yao
(Ministry of the Environment and Climate Change)

Elisha Persaud
(University of Guelph)

Sam Bellamy
(Matrix Solutions Inc.)

Natural Heritage

W2C ROOM 1

Succession on the Niagara Escarpment

The Niagara Escarpment contributes significantly to Ontario's environmental and economic sustainability. In this session, we look to the future, to review the succession of the Niagara Escarpment Plan, and discuss how partners like the NEPOSS Council are working strategically to plan for the challenges that succession brings.

Succession on the Niagara Escarpment: A Place Where People Share a Way of Living with Nature That Builds a Future We're Proud Of
Lisa Grbinicek
(Niagara Escarpment Commission)

NEPOSS - Successful Succession in Landscape Management
Niall Lobley
(Niagara Escarpment Parks and Open Space System Council [NEPOSS])

The Evolution and Succession of the NEC Compliance Program
OJ MacDonald
(Niagara Escarpment Commission)

Soil and Soil Health

W2D ROOM 7

Farm Sustainability from Soils to Economics - The Good, The Bad and The Ugly

Back by popular demand, join this panel of people involved in different areas of agriculture and food production who will share their cropping practices, the challenges they face, and the things that they are doing to improve soil health. How can we as consumers help?

Farming on First Nations Land

Barry Hill
(Six Nations)

Challenges and Opportunities of Organic Production

Thorsten Arnold
(Grey Bruce Centre for Agroecology)

“Buy Local” – What’s Inhibiting Sector Growth and Farm Profitability

Gerard Grubb
(Soil Network)

Forestry

W2E ROOM 16

Succession in Action: Restoring and Regenerating Forests

This session explores strategies for restoration and regeneration of plantations, highlighting practices to jump start succession and build native biodiversity.

Conifer Plantations – Biological Desert or Restoration Oasis?

Ron Wu-Winter
(Grand River Conservation Authority)

Planned Succession from Pine Plantation to Mixed Forest System

Lesley McDonell
(Hamilton Conservation Authority)

Native Herbaceous Companion Plantings in Reforestation

Lindsay Campbell
(Grand River Conservation Authority)

Marketing, Outreach and Communications

W2F ROOM 9

Before the Flood: Engaging the Community in Stormwater Management

Stormwater management and flood risk are not hot topics – until disaster strikes. Learn how three cities engaged residents and businesses early in the stormwater management conversation, and the key messages and strategies that broke down the barriers to understanding and building resilience.

Succession in Reverse: Shifting Outreach from Stormwater Charges to Stormwater Management

Victoria Kramkowski
(City of Mississauga)

Stormwater Utilities - a Destination or a First Step?

Jen Slykhuis
(Town of Newmarket)

Working with Homeowners to Reduce Flood Risk

Rob Leone
(Intact Centre at the University of Waterloo)

DAY TWO

WEDNESDAY LUNCHEON PROGRAM

WEDNESDAY LUNCHEON PROGRAM WITH KEYNOTE

TERRY O'REILLY 12:00 PM - 1:45 PM

Terry O'Reilly

Host of CBC/Sirius Radio's *Under the Influence*

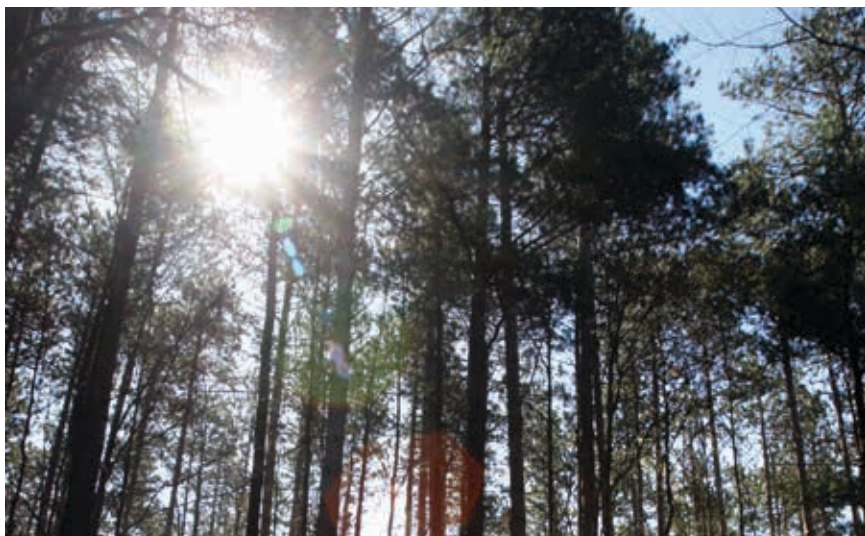
Terry O'Reilly is the familiar voice behind the hit CBC radio shows *O'Reilly on Advertising*, *The Age of Persuasion* and his current program, *Under the Influence*, where he explores the business, the craft, and the promise of promotion. In his intriguing talks, O'Reilly explores how our culture is shaped by marketing, as well as providing his expertise on branding, campaigns, spin, and more.



O'Reilly began his career in radio, and then went on to become an award-winning copywriter for a number of Toronto advertising agencies. He created campaigns for many of the top brands in the country, including Labatt, Molson, Bell, and The Hudson's Bay Company.

O'Reilly has received Lifetime Achievement Awards by the Advertising & Design Club of Canada, The Television Bureau of Canada, and the American Marketing Association. He has also been granted an Honorary Doctor of Laws Degree from McMaster University in 2012, an Honorary Bachelor of Applied Arts Degree from Humber College in 2014, and an Honorary Doctor of Civil Law Degree from St. Mary's University in Halifax in 2015.

He has co-written the bestselling book, *The Age of Persuasion: How Marketing Ate Our Culture*, and recently released his second book *This I Know: Marketing Lessons from Under The Influence*.



WE ARE PLEASED TO PLANT TREES

In Honour of the Delegates of the 2017 Latornell Conference

Toronto: 416.646.1193
Toll Free: 1.877.646.1193
info@forestsontario.ca
www.forestsontario.ca



COME FOR THE SYMPOSIUM, STAY FOR THE FOOD!

It's fair to say that the Latornell Conservation Symposium is built on a foundation of three solid pillars - information sharing; networking; and great food! Each year, our host facility, the Nottawasaga Inn and Conference Centre in Alliston, creates a delicious and delectable menu that never ceases to please. This year will be no exception, with their continued commitment to source locally grown food and deliver new meal ideas and flavour combinations.



Perhaps for lunch, the broccoli and cranberry salad with red onions and pumpkin seeds will catch your interest, followed by a corn crusted pork loin with caramelized onions and arugula pesto sandwich. And maybe for dinner, you'll be queuing up to enjoy the carved, slow roasted beef with a side of vegetable succotash. Or if seafood is more your thing, how about white fish cakes with garlic aioli or a fillet of roast salmon with carrot and leek julienne and maple glaze?



And don't think our vegetarian and food sensitive delegates have been left out in the cold. In our survey feedback we've heard a growing demand for more substantial vegetarian and gluten/dairy free dishes, and the Nottawasaga Inn has responded! A few of the items lined up this year include vegan rice paper salad rolls filled with a delectable array of flavour

combinations; baked corn pasta with spinach tomatoes and mushrooms; and layered vegetables with refried beans and a corn tortilla crust! If it's cold out, you could always warm up with some freshly made leek and potato soup too.

The Gala Banquet evening this year has produced a menu that showcases a variety of indigenous recipes you're sure to enjoy. A veritable buffet of delicious options, including sumac rubbed smoked pork loin; three sister soup; summer squash with red onions and fresh herbs; as well as roasted yams and potato salad with Prairie mustard. Top it all off with delectable desserts, including pumpkin pie, maple pecan flan, wild rice pudding, carrot and walnut cake, and the list goes on!

Check out a sample of local foods that will be part of our daily menus.

Tuesday Lunch:	Tuesday Harvest Dinner:	Wednesday Lunch:
Cracked Wheat – Acton Cranberries – Bala Turkey – Perth Pork – Huron County Carrots – Bradford Eggs – Lyn Pound Butter – Alliston	Peppers & Cucumbers – Kingsville Cranberries – Bala Beets – Bradford Apples – Meaford Pound Butter - Alliston	Cabbage – Exeter Cucumbers – Kingsville Corn – Leamington Mushrooms – Campbellville Potatoes - Alliston
Wednesday Evening Gala Dinner:		Thursday Lunch:
Kale & Cabbage – Exeter Cider – Meaford Chickpeas – Delhi Corn – Leamington Squash – New Scotland		Turkey –Perth Corn – Leamington Cranberries – Bala Cabbage – Exeter Apple – Meaford/Thornbury

DAY TWO

Watershed Management

W3A ROOM 15

Brook Trout - Past, Present and Future

Brook Trout are an important component of Ontario's native aquatic biodiversity. This presentation will identify past and present distribution in the TRCA jurisdiction, tools to protect habitat, monitoring trends in two watercourses in Caledon East and needs and future direction for a strategy for the conservation and management of Brook Trout.

Past and Present Distribution of Brook Trout in the TRCA Jurisdiction and What Legislation, Policies, and Guidelines Do Conservation Authorities Have at Their Disposal to Protect Their Habitat
Jan Moryk
(Toronto and Region Conservation)

The Conservation and Management of Brook Trout in Ontario: Past, Present, and Future
Jacquelyn Wood
(Ministry of Natural Resources and Forestry)

10 Years of Monitoring: Impacts of Groundwater Taking, Sediment Load Events, and Water Temperature Changes on Brook Trout Populations in Two Watercourses in Caledon East
Jan Moryk
(Toronto and Region Conservation)

Water and Climate Change

W3B/W4B LOBBY

Centennial Pond/ Lovers Creek Restoration Tour

Please note this tour takes place from 2:00 PM - 5:00 PM

50 years ago, Canada celebrated its centenary by creating legacy projects across the country. One such project in Innisfil involved damming Lovers Creek and creating a pond for recreation activities. Over the years, Centennial Pond filled in with sediment and the water quality declined. Further, the pond served as a barrier to fish passage and contributed to warming the water in this important cold headwater of Lake Simcoe.

Over the past two years, a significant multi-partner creek restoration project has occurred at this site. This project involved the creation of a new creek channel and various habitat structures. Join some of the project partners for a tour which will focus on natural channel design and stream construction.

Paul Villard and Bryce Molder
(GEO Morphix)

Rob Wilson
(Lake Simcoe Region Conservation Authority)

Silvia Pedrazzi
(South Simcoe Streams Network, Nottawasaga Futures)

Natural Heritage

W3C/W4C ROOM 1

On a Wing and a Prayer: The Plight of Our Birds

Please note this session takes place from 2:00 PM - 5:00 PM

In this special session we will screen Su Rynard's documentary THE MESSENGER that explores our deep-seated connection to birds and warns that the uncertain fate of songbirds might mirror our own. THE MESSENGER brings us face-to-face with a variety of human-made perils that have devastated songbirds. The artful story is about the mass depletion of songbirds on multiple continents, and about those who are working to turn the tide. After the movie, our panel of bird specialists will present some of their own findings with other bird communities, discuss the messages from the movie, and bring examples of actions being taken in Canada and around the world to try and reverse the loss of bird populations. Join us for this unique presentation.

For more session information, please see W3C/W4C listing in 3:30 PM – 5:00 PM time slot.

Soils and Soil Health

W3D ROOM 7

Building Grazing Back into Farming for Soil Health

Historical ecosystem patterns relied on the grazing activities of ruminants to maintain ecological balances. Learn how these farmers attempt to integrate livestock back into their cropping systems, and what does it mean for the consumer?

Building Soils with Grazing - Challenges and Opportunities for Intensive Rotational Grazing
Thorsten Arnold
(Grey Bruce Centre for Agroecology)

Success in Vermont – Using Citizen Science to Monitor Carbon Sequestration
Chuck Mitchell
(U.S. Department of Agriculture Organic Inspector [Retired])

Becoming a Preferred Tenant for Grazing on Rented Farms
Christoph Wand
(Ontario Ministry of Agriculture, Food and Rural Affairs)



We would like to acknowledge Geo Morphix as the Centennial Pond/ Lovers Creek Restoration Tour sponsor.

2:00 PM – 3:30 PM

Forestry

W3E/W4E LOBBY

It Takes a Forest Tour

Please note this tour takes place from 2:00 PM - 5:00 PM

Join Professional Foresters from Simcoe County, Nottawasaga Valley and Lake Simcoe Region Conservation Authority's for a walking field tour of Ontario's largest managed forest. Learn how forest practitioners work with nature to speed up the natural process of succession. From "dustbowl" to pine plantation to self-sustaining mature hardwood forest; the tour will showcase the colourful journey the forest has taken over the past 100 years. Participants will witness firsthand the tools, techniques and strategies foresters use to increase biological diversity in managed forests.

This is an outdoor walking tour on easy to moderate level trails. Please dress appropriately for the weather.

Rob Keen
(Forests Ontario)

Graeme Davis
(County of Simcoe)

Cory Byron
(Lake Simcoe Region
Conservation Authority)

Rick Grillmayer
(Nottawasaga Valley
Conservation Authority)



We would like to acknowledge
Forests Ontario as the
It Takes a Forest Tour sponsor.

Marketing, Outreach and Communications

W3F ROOM 9

5 Brain Gardening Practices for Cultivating Effective Teams

What can bees teach us about highly productive teams? How to create an environment suited to tackle today's complex problems? Drawing from "social physics" research, (the social connectivity of teams), learn the five "brain gardening" practices of the team tool kit. Cultivate idea flow, foster quality decision-making processes, and achieve top performance for your team in the era of adaptation.

Linda Pickard
(Pickard & Laws Consulting
Group Inc.)

Watershed Management

W3G/W4G ROOM 16

Conserving Our Future: A Modernized Conservation Authorities Act

Please note this session takes place from 2:00 PM - 5:00 PM

A multi-year review of the Conservation Authorities Act ended in June...what's next? Hear from MNRF followed by perspectives from Conservation Ontario, development, agricultural and environmental sector representatives on the importance of a modernized framework for conservation authorities. Ask questions, share your experience and gain insights in this interactive session. This session will cover programming and services delivered by CAs in support of provincial, municipal and watershed priorities; open and transparent governance; and collaboration and engagement with stakeholders, the public and Indigenous communities. Panel members will reflect on lessons learned, highlight current best practices, and explore new approaches for the future. Come join the discussion!

Use your laptop or mobile device to ask questions and answer polls during the session by going to www.slido.com and entering event code #R117 (WiFi is available).

Overview of Conserving Our Future A Modernized Conservation Authorities Act Policy Framework

Jennifer Keyes and John
Dungavell
Ministry of Natural Resources
and Forestry

Panel: The Importance of a Modernized Framework for Conservation Authorities – Lessons Learned, Best Practices and New Approaches for the Future

Conservation Ontario
Ontario Federation of
Agriculture
Ontario Home Builders
Association
Ducks Unlimited Canada
Association of Municipalities of
Ontario [Invited]

DAY TWO

3:30 PM – 5:00 PM

Watershed Management

W4A ROOM 15

Biological Changes in Lakes and Rivers

What do the bugs say? The session explores the use of long-term benthic macroinvertebrate datasets from multiple watersheds to inform our understanding of aquatic ecosystem integrity in rural and urban streams and lakes.

Long Term Benthic Community Changes in Lakes and Rivers of the south Precambrian Shield

Chris Jones
(Ministry of the Environment and Climate Change)

Applying a Reference Condition Approach to Evaluating the Integrity of Aquatic Communities in the Credit River Watershed

Patrick Schaefer
(Credit Valley Conservation)

Impacts of Urbanization and Other Anthropogenic Stressors on Stream Dwelling Benthic Macroinvertebrate Communities of the Lake Simcoe Watershed

Brian Ginn
(Lake Simcoe Region Conservation Authority)

Water and Climate Change

W3B/W4B LOBBY

Centennial Pond/ Lovers Creek Restoration Tour

Please note this session takes place from 2:00 PM - 5:00 PM

Please see 2:00 PM – 3:30 PM time slot for full description.

Natural Heritage

W3C/W4C ROOM 1

On a Wing and a Prayer: The Plight of Our Birds

Please note this session takes place from 2:00 PM - 5:00 PM

Continuation of W3C/ W4C listing from the 2:00 PM – 3:30 PM time slot.

Introduction

Su Rynard
(Film Director of THE MESSENGER)
and Joanne Jackson
(SongbirdSOS Productions Inc.)

Threats to, and Conservation Opportunities for, Swallows and Martins at Post-Breeding Roosting Sites on the Lower Great Lakes Coasts

Edward Cheskey and Megan MacIntosh
(Nature Canada)

Multispecies Benefits of Wetland Conservation for Marsh Birds and Other Wildlife

Doug Tozer
(Bird Studies Canada)

Session ends with a panel discussion with:

Joanne Jackson
(SongbirdSOS Productions Inc.)

Bridget J. M. Stutchbury
(York University)

Soils and Soil Health

W4D ROOM 7

We Manage Water Through Regulation and Policy - What About Soil?

While water has enjoyed a number of policy and legislative protections over the years, soil has not. This session will focus on new policies and legislation designed to conserve and remediate soil in a more comprehensive way.

The Need to Regulate the Dumping of Excess Soil

Ian McLaurin
(Ontario Soil Regulation Task Force)

Delivering on Ontario's Excess Soil Management Policy Framework

Laura Blease
(Ministry of Environment and Climate Change)

Tying It All Together – Pieces of Soil Management

Arthur Churchyard
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Forestry

W3E/W4E LOBBY

Playing with Time and Working with Mother Nature - A Field Tour of Ontario's Largest Managed Forest

Please note this tour takes place from 2:00 PM - 5:00 PM

Please see 2:00 PM – 3:30 PM time slot for full description.

Marketing, Outreach and Communications

W4F ROOM 9

Conservation Philanthropy - Values in Action

When contemplating a land or monetary gift, donors are expressing what is important to them. The work of CA's and environmental NGOs has never been more important, but what makes some agencies more successful in fund raising than others? In this session, learn how to develop strong relationships, take a donor-centred approach and navigate the competitive charitable environment for successful campaigns.

Negotiations: From Contact to Close

Robert Orland
(Orland Conservation)

Conservation Fundraising: A 'How To' Guide

Sara Wilbur
(Grand River Conservation Foundation)

Watershed Management

W3G/W4G ROOM 16

Conserving Our Future: A Modernized Conservation Authorities Act

Please note this session takes place from 2:00 PM - 5:00 PM

Please see 2:00 PM – 3:30 PM time slot for full description.



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IMPROVE LIFE.

DAY TWO

LATORNELL GALA BANQUET EVENING

Join us for our annual Latornell Gala Evening. The evening includes a student poster display and competition, dream auction, grand prize card draw, banquet dinner and finishes with our lively Wednesday night entertainment.

STUDENT POSTER DISPLAYS AND COMPETITION

5:00 PM - 6:30 PM

The Latornell Conservation Symposium showcases a variety of original research projects which have either been just completed or are underway within our universities and colleges. This is 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 event is sponsored by R.J. Burnside & Associates Limited.



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

NAME	AFFILIATION	POSTER PRESENTATION
Sarah Rixon	University of Guelph	Agricultural Nutrient and Surface Water-Groundwater Interactions
Ryan Carlow	University of Waterloo	Phosphorus; How Low Can You Go? The Use of Geotextiles as a Filter for Overland Flow in Agricultural Croplands in Southern Ontario
Meaghan Mechler	University of Waterloo	Impacts of Biochar on Soil Health, Crop Yields, and Greenhouse Gas Emissions
Jordan Graham	University of Guelph	Influence of Herbaceous Biomass Crops on Soil Organic Carbon Contents in Ontario Soils
Melisa Kopan	University of Guelph	Estimating Soil Water Budget Uncertainty When Using Discrete Soil Moisture Measurements
Michael March	University of Guelph	Assessing Soil Organic Carbon Levels at the Sub-Field Scale in Southwestern Ontario Using a UAV Mounted Multispectral Sensor
David Browne	University of Guelph	Evaluating the Presence of Neonicotinoids in Ontario Groundwater Resources
Aislin Livingstone	University of Guelph	A Drop in the Bucket: Building a Better Understanding of Investments Made in Community-Based Water Monitoring
Rachel Walton	University of Guelph	A Unified 2-Year Peak Flow Prediction Equation Incorporating Novel Applications of Hydrologic Variables
Alison Feist	Brock University	Dissecting Collaborative Environmental Processes: Examining Qualities, Interactive Effects, and Influences on Outcomes
Sarah Minnes	Memorial University of Newfoundland	Enhancing Source Water Protection in Rural Regions: Exploring the Role of Governance and Capacity Building
Kirsten Grant	University of Waterloo	Phosphorus Movement in Frozen and Unfrozen Soils under No-Till Agricultural Management with Different Fertilizer Applications Strategies
Diamir de Scally	University of Waterloo	Integrating Local Knowledge in Adaptation to Climate Hazards
Eddie Chan	University of Waterloo	The Reintroduction of Malagousia Grapes on Greek Farms
Paulina Marczak	Queen's University	Improving Predictions of Aboveground Forest Carbon Accumulation Rates in Southeastern Ontario Forest

DREAM AUCTION

DREAM AUCTION 5:00 PM - 8:00 PM

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

The Dream Auction supports the Latornell Grant program providing financial aid to people who would not otherwise be able to attend this annual Symposium. With over \$13,000 raised at last year's auction, our awards will enable students and/or representatives of smaller environmental non-governmental organisations to attend this year's Symposium.

The Dream Auction provides a variety of items bound to appeal to everyone in the crowd. It's a perfect opportunity to start your Christmas shopping with many one-of-a-kind items available. There is something for everyone! Entertainment, Family Activities, Wine, Art and Jewelry. We look forward to having you join us for an evening of fun!

There are two ways to take home a great item:

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

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

- » Swift Canoe Prospector 16 Kevlar Fusion Canoe
- » 4 tickets to the RBC Canadian Open
- » Case of Vineland Estates Wine
- » Weekend at the Conley-Drinkwater cottage, McGeachie Conservation Area
- » Pelican kayak with a paddle
- » 2 Canopy Adventure Passes (Zip Lines)
- » 4 tickets (family pack) to A Christmas Carol at the Elgin & Winter Garden Theatres
- » 2 tickets to Grease at the Elgin & Winter Garden Theatres
- » All Access Family pass for Glen Eden ski hill
- » Algonquin Wildlife Tracking Adventure
- » Books, artwork, gift cards, wine, food, maple syrup... and much more!

Thinking of making a donation for the 2018 Symposium?

Please contact Freyja Whitten, Credit Valley Conservation,
fwhitten@creditvalleyca.ca

Thank you to everyone who helps make this such a success.



DAY TWO

LATORNELL GALA BANQUET EVENING

GALA BANQUET DINNER & ENTERTAINMENT

6:30 PM – 9:30 PM

The Latornell Gala Banquet is held on the Wednesday evening during the Symposium. A number of events take place during the Gala Banquet, such as the Student Poster Display and Competition, the Dream Auction, Banquet Dinner, and it is capped off with an entertainment performance. In years past, delegates have shared a laugh with Jessica Holmes, Derek Edwards, The Second City; the Debaters, drummed along with Drum Café; and participated in a trivia game show with Matt O'Brien.

The Latornell Conservation Symposium is excited to announce Comedy Hypnotist **Robert Maxwell** as the 2017 Latornell Gala Banquet entertainment.



Robert Maxwell is of the highest calibre when it comes to Hypnotists and Entertainers. Robert's experience speaks for itself. Robert Maxwell has been performing his comedy show for over 25 years and his comedy performance has reached as far as 200 km's south of the Arctic Circle. Robert is Canada's most sought after entertainer and hypnotist. Robert has made numerous television and dozens of radio guest appearances. At the IBM Awards Gala, Robert Maxwell won the prestigious Entertainer of the Year Award 2012, 2013, 2015, and 2016. Robert Maxwell performs all over the world from Vancouver to the Caribbean, to the North West Territories and of course Las Vegas Nevada.

Robert is an exceptional Hypnotist, is fully insured and is also a Registered Certified Hypnosis Practitioner, so your colleagues are in very good hands. Robert Maxwell receives rave reviews and wonderful comments, such as:

"Robert Maxwell did a fantastic performance and everyone just loved the show" and "Robert Maxwell is the best hypnotist we have ever had!", "I laughed so hard I cried...wonderful performance!"

"We hired Robert Maxwell for an event and have since hired Robert Maxwell again for all our company events....the show only gets better and better.... fantastic comedy show which I highly recommend to all companies looking for great entertainment!"

"Best Fundraiser we have ever had. We have had Robert Maxwell for the last three years and every year gets better response, this year we sold out at maximum capacity! I highly recommend Robert Maxwell for any fundraiser event or any need for great entertainment"

Robert Maxwell's show is professional, corporate based, always clean, performed in good taste and is audience and volunteer friendly.

The LAP

Afterwards, make your way over to the LAP for music, board games and cards, and plenty of fun. The bar will be open until 1:00 AM for your fun and amusement.

Location: Starlite Lounge

GREENING INFORMATION

PLANTING TREES ON BEHALF OF SYMPOSIUM PARTICIPANTS BENEFITS THE ENVIRONMENT

Over 4,000 trees will be planted in the Nottawasaga Valley watershed to help offset the emissions created by participants travelling to the Latornell Conservation Symposium. This unique partnership between Forests Ontario, the Nottawasaga Foundation, the Nottawasaga Valley Conservation Authority, and the Symposium has planted over 50,000 trees since 2006.

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



LATORNELL GREEN BITES – WALKING THE TALK

The Latornell Conservation 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, minutes and Symposium guidelines between SC members using a special members' page on the website.
- Sharing ideas between SC members on a live webpad on the members' webpage.
- Implementing Symposium promotion and registration electronically.
- Promoting the electronic submission of applications for sponsors, exhibitors, grants and Leadership Awards.
- Encouraging local foods to be served at all meals during the Symposium.
- Ensuring over 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 Steering Committee members' travel to and from meetings to organize the Symposium;
- reduce the use of paper in our work; and,
- accept carbon responsibility and reduce our imprint on the planet!

DAY THREE

Watershed Management

TH1A ROOM 15

Floodplain Management - Modelling, Policy and Practice

Floodplains are a central topic in Natural Hazard Management. This presentation will examine new approaches to regulatory flood controls in Ontario and modelling for innovative watershed planning and management. The session will also address remedial flood and erosion control on a landscape basis for flood attenuation and low flow augmentation.

New Approaches to Regulatory Flood Controls in Ontario

Ron Scheckenberger
(Amec Foster Wheeler)
and **Sameer Dhalla**
(Toronto and Region Conservation)

Hydrogeosphere Modelling for Innovative Watershed Planning and Management

Owen Steele
(Ducks Unlimited Canada)
and **Mason Marchildon**
(Oak Ridges Moraine Groundwater Program)

East Escarpment Watershed Restoration Program

Scott Peck
(Hamilton Conservation Authority)

Water and Climate Change

TH1B ROOM 2

Modernizing Water Management in the Face of Uncertainty

Development pressures and climate uncertainty are driving concerns surrounding water resource security. This session will explore ways in which our water quantity management framework can be modernized, and will highlight some of the tools at our disposal which can be used to achieve a sustainable future.

Protecting Water Quantity In Ontario

Zdana Fedchun and **Heather Brodie-Brown**
(Ministry of the Environment and Climate Change)

Green Infrastructure Approaches to Increased Water Resources Resiliency

Tim Van Seters
(Toronto and Region Conservation)

Natural Heritage

TH1C ROOM 1

Making the Data Work: The Value of Long Term Data Collection

What can the data tell us? This session explores the value of long term monitoring and data collection, using Ontario Department of Planning and Development data from the 1950s for streams in the Greater Toronto Area, turtle data from the Algonquin Wildlife Research Station and the MNRF's Natural Heritage Information Centre to show how new findings can come from old research.

ODPD Conservation Report Data Inform Fisheries Management 30 and 60 Years Later

Nicholas E. Mandrak
(University of Toronto)
and **Gord Wichert**
(SLR Consulting)

Lessons From a Long-Term Research Project of Turtles in Algonquin Park

Steven Kell
(Laurentian University)

Canada150/Ontario150 and NHIC205: Mining Records from Documents and Clouds to Create Long Term and Robust Datasets

Jim Mackenzie
(Ministry of Natural Resources and Forestry)

8:30 AM – 10:00 AM

Soils and Soil Health	Restoration	EcoHealth
TH1D ROOM 7	TH1E ROOM 8	TH1F ROOM 9
<p>Holding The Line: Tools for Managing Landscape Erosion</p> <p>Erosion is dynamic, and so too is the evolving suite of tools used to defend against it. This session will review some of the state-of-the-art techniques used to protect urban and rural properties against elevated rates of soil erosion.</p> <p>.....</p> <p>High Strength Geosynthetics as a Low Cost Erosion Protection Solution Robin Wakelin <i>(Bishop Water)</i></p> <p>Structural Solutions for Erosion Control – Success in 100 Year Storm Events Sarah Fleischhauer <i>(Maitland Valley Conservation Authority)</i></p> <p>Solutions for Soil Management and Vegetative Establishment Cathy Wall <i>(Quality Seeds)</i></p>	<p>Restoring Rivers in the Nottawasaga Valley and Credit River Watersheds</p> <p>Restoring rivers is not an easy task. It can take hours of planning, numerous volunteers and innovative designs. This session will discuss a number of river restoration projects in the Nottawasaga and Credit watersheds, including how they were implemented, results and/or future plans.</p> <p>.....</p> <p>Biodiversity Hotspots: Credit River and Hungry Hollow Restoration Preservation Tunde Otto <i>(Willow Park Ecology Centre)</i></p> <p>Putting the Wiggle back in Willow Creek Shannon Stephens <i>(Nottawasaga Valley Conservation Authority)</i></p> <p>Barefoot Box Culvert - Thinking Inside the Box Christopher Pfohl <i>(RJ Burnside and Associates Limited)</i></p>	<p>EcoHealth: Designing Communities for Healthy Living</p> <p>As chronic disease continue to increase in the GTA, there is emphasis to create walkable, healthy communities through design and increased utilization of conservation areas. This session will focus on the success and challenges in applying the Healthy Development Assessment (HDA) and how tobacco-free Conservation Areas can be created.</p> <p>.....</p> <p>Retrofitting the Suburbs: Implementing Healthy Community Design Through the Development Process Christian Binette and Wayne Koethe <i>(Region of Peel)</i></p> <p>Tobacco-Free Conservation Areas – Protecting People and the Environment Theresa Chambers <i>(Simcoe-Muskoka District Health)</i></p>

DAY THREE

Watershed Management

TH2A ROOM 15

Successional Changes in Stormwater Management

Stormwater Management has evolved significantly in the last 40 years. Ecological considerations of naturalized habitat in stormwater management facilities, succession of subwatershed planning and its impact on the evolution of stormwater management and buffer enhancement measures for the mitigation of increased stormwater management will be examined.

Ecological Considerations of Naturalized Habitats in Stormwater Management Facilities

Blair Baldwin
(Natural Resource Solutions Inc.)

The Succession of Subwatershed Planning and its Impact on the Evolution of Stormwater Management

Alexandra Veglio
(Credit Valley Conservation)

Buffer Enhancement Measures for the Mitigation of Increased Stormwater Runoff

Nathan Miller
(Natural Resource Solutions Inc.)

Water and Climate Change

TH2B ROOM 2

Old Dogs, New Tricks: Overcoming Barriers to Green Infrastructure

Despite a growing understanding of the importance of green infrastructure, broad-scale implementation has not occurred. Join us as we evaluate the role of common law surrounding this issue and explore a pre-existing tool - the Drainage Act - for its ability to accommodate enhanced stormwater management on both public and private lands.

Moderator

Jacqui Empson Laporte
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Drainage Water and the Limitations of Common Law

Sid Vander Veen
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Innovative Urban Applications of the Drainage Act

Bill Trenouth
(Credit Valley Conservation)

Natural Heritage

TH2C ROOM 1

Achieving 17%: Strategies to Meet Canada's Protected Areas Target

Protected areas are seen as the cornerstone to successful biodiversity conservation. So how are we doing in terms of creating new protected areas? And what are the things to keep in mind when developing your land securement strategy? These topics and more will be discussed in this session.

Conservation 2020: Pathway to Canada Target 1

Rob Davis
(Ministry of Natural Resources and Forestry)

Protecting Future Natural Heritage Resources

Kate Potter
(Orland Conservation)

Securement Challenges and Successes in Southern Ontario

Sarah Hodgkiss
(Thames Talbot Land Trust)

10:30 AM – 12:00 PM

Soils and Soil Health

TH2D ROOM 7

Soil Health Sampling and BMP Adoption

There are challenges in understanding, measuring and validating the environmental benefits of precision agriculture. Like many technologies, there are a lot of costs and effort put into it, but attaining an environmental objective is still elusive. If precision agriculture engages farmers in new conversations about environmental measurement, is it worth it?

Novel Approaches in Addressing Lake Ontario Shoreline Erosion Using Terrestrial Laser Scanning

Ian Jeffrey
(Ganaraska Region Conservation Authority)

Measuring Soil Productivity - Where Have We Been and Where Are We Heading?

Nicole Rabe
(Ontario Ministry of Agriculture, Food and Rural Affairs)

The New Frontier of Measuring the Effectiveness of Precision Ag

Ian McDonald
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Restoration

TH2E ROOM 8

Growing Your Targeted Stewardship Program

Creative stewardship programs drive change and result in tangible restoration projects on the landscape. Explore the challenges and successes of 3 very different programs; growing a tree planting program, improving pollinator habitat, and putting a price on farm Phosphorus. These programs all recognize the importance of stakeholder and volunteer engagement.

York Region's Tree Planting: The Evolution from Planting Program to Campaign

Kyle Heeley
(The Regional Municipality of York)

Ontario's Pollinator Health Action Plan: Challenges and Opportunities for Pollinator Habitat

Bradley Shaw
(Ontario Ministry of Agriculture, Food and Rural Affairs)
and Lindsay Noyes
(Ministry of Natural Resources and Forestry)

The Great Lakes Agricultural Stewardship Initiative: Putting a Price on Phosphorus

Karen Jacobs
(Ontario Soil and Crop Improvement Association)

EcoHealth

TH2F ROOM 9

Conserving Biodiversity is a Public Health Imperative

There is an intrinsic connection between human health/wellbeing and biodiversity, however, many people, including health professionals, don't fully appreciate how biodiversity supports our quality of life and our health. This session will explore these connections and look at the work underway that connects them.

Conserving Biodiversity is a Public Health Imperative

Sarah Elton
(University of Toronto)

Paths to a Healthier Future

Michelle Kanter
(Carolinian Canada)

Linking Biodiversity to Public Health

Virginia Capmourteres
(University of Guelph)

DAY THREE

THURSDAY LUNCHEON PROGRAM

2017 LATORNELL LEADERSHIP AWARD CEREMONY

1:00 PM - 2:00 PM

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

For further information on our 2017 award recipients please see the Latornell Leadership Awards Program which will be available at the awards luncheon.

Master of Ceremonies:

Carolyn O'Neill

Manager, Great Lakes Office

Environment and Climate Change Ontario

Carolyn is the Manager of the Ministry's Great Lakes Office. Her job is to advance Great Lakes programs and policies including Ontario's Great Lakes Strategy, the Great Lakes Protection Act and Great Lakes agreements. Prior to joining the Ministry, Carolyn was with Environment Canada where she worked to advance protection of the Great Lakes and the Fraser River in British Columbia.

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LATORNELL LEADERSHIP AWARDS

2017 LEADERSHIP AWARD RECIPIENTS

Brian Kelly, Whitby ON

Manager of Sustainability at Regional Municipality of Durham

Nominated by: Regional Municipality of Durham, Whitby ON

Geoffrey Peach (Awarded Posthumously), Blyth ON

Coastal Resources Manager at Lake Huron Centre for Coastal Conservation

Nominated by: Saugeen Valley Conservation Authority, Formosa ON

Mark Heaton, Aurora ON

Fish and Wildlife Biologist at Ontario Ministry of Natural Resources and Forestry, Aurora District

Nominated by: Ontario Streams, Aurora ON

Dr. Steven Cooke, Greely ON

Canada Research Chair and Professor at Carleton University in Ottawa

Nominated by: past and current students of the Fish Ecology and Conservation Physiology Laboratory, Carleton University, Ottawa ON



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DAY THREE

PLENARY DISCUSSION PANEL



Water Takings in Ontario: Are We on Course to a Water Crisis in Ontario?

With a growing opposition to water being treated as a commodity, the Province has changed some of the regulations around water taking permits for water bottlers and others, raising the cost of taking water. Some say this doesn't go far enough and that it doesn't solve the real issues around water. We need to consider water security, water quality and climate change effects as well as ensuring sufficient water to support environmental needs.

Water issues are complicated and polarize communities. Should we be concerned that there won't be enough water to support our needs now and into the future?

Who better to guide our panelists than Steve Paikin from *The Agenda*. *The Agenda* TVO's flagship current affairs program engages public-minded individuals in current affairs and social issues. Join us for what promises to be a lively discussion as our panel of experts educates delegates on water takings in Ontario and explores some of the key issues around water takings.

Steve Paikin, Anchor and Senior Editor of TVO's *The Agenda*

The anchor and senior editor of *The Agenda* on TVO, Steve Paikin has moderated leaders' debates for three federal and two provincial elections, has written multiple books, and has created several documentaries. Whether in front of the camera or a live audience, Paikin always brings his intelligent analysis to top, headlining stories—be they local, national, or international.



PANELISTS

Rob de Loë, University of Waterloo

Rob de Loë is a Professor in the School of Environment, Resources and Sustainability at the University of Waterloo, and Director of the Water Policy and Governance Group. His academic research centres on topics relating to water policy, water governance and water management. During the past two decades, he has explored governance challenges in areas that include trans-boundary water management, protection of drinking water sources, climate change adaptation and water allocation. Rob is becoming particularly interested in more systemic approaches to governance for water and the environment, especially ones that take account of critical external considerations such as changes in demand for food and energy, population shifts, and climate change. Rob's current SSHRC-funded project – Rethinking Water Governance: Towards a New Agenda for Research and Practice— is the first major academic research initiative in this program.



Nelson Switzer, Nestlé Waters

Nelson Switzer joined Nestlé Waters North America (NWN) in January 2016 as Vice President and Chief Sustainability Officer. In this role, Nelson is responsible for the continued growth and implementation of multi-faceted sustainability strategies and programs. Nelson brings more than 15 years of experience working in the public and private sectors at both the local and international level, specializing in sustainable development and management. Before joining NWN, Nelson was Director and Leader of Sustainable Business Solutions at PwC where he designed and led a premium sustainability and stakeholder engagement management advisory practice.



Ellen Schwartzel, Environmental Commissioner's Office

Ellen is currently the Deputy Environmental Commissioner. She has advised commissioners on a broad suite of policy areas, including climate change, urban air quality, sand and gravel extraction, water taking, environmental assessment and municipal wastewater management. One of her current priorities is to help Ontarians use their citizen engagement toolkit under the Environmental Bill of Rights. Prior to joining the ECO, Ellen spent several years in advocacy for environmental organisations and research support for Ontario's Environment Minister. Her academic background is in botany, and she shares a small Toronto garden with her husband, two kids and an ever-changing scramble of native plants, birds and bugs.



Grandmother Kim Wheatley, Anishinaabe Cultural Consultant

Kim Wheatley is an Anishinaabe (Ojibway) band member of Shawanaga First Nation. Kim is deeply committed to creating and promoting awareness of the Indigenous perspective. Kim has provided a wide variety of culture-based workshops throughout the greater Southern region of Ontario that educate, sensitize and expand the minds of those seeking a greater understanding of the Indigenous perspective. Her diverse accomplishments and contributions include membership on the Durham Regional Aboriginal Advisory Circle for the Oshawa Health Center (DRAAC), Aboriginal Sport and Wellness Council of Ontario (ASWCO) as the Southern Regional Vice Chair as well as on the University of Ontario Institute of Technology (UOIT) Aboriginal Advisory Circle. She continues to actively work as an Indigenous Cultural Consultant using her diverse experiences and traditional knowledge for the greater good.



Eric Hodgins, Regional Municipality of Waterloo

Eric has been employed at the Regional Municipality of Waterloo for 23 years and for most of that time has directed implementation of the Region's Water Resources Protection Strategy and quarterbacked its aquifer management program. In 2004, he was a member of the Technical Experts Committee on Source Water Protection for the Ministry of the Environment and has been an active participant in the development and implementation of the Clean Water Act since its inception. Eric has a Master of Science degree from the University of Waterloo in hydrogeology and is a professional geoscientist.



2017 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 289 people have received a grant. Applicants must be a student (college or university) or affiliated with an Ontario not-for-profit/ community conservation organisation either as an employee or volunteer.

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

Individuals interested in applying for a 2018 Symposium grant are encouraged to do so at www.latornell.ca/grants/.

This Year's Recipients Are:

NAME	AFFILIATION
Jen Baron	Western University
Karlo Bobinac	Upper Thames River Conservation Authority
Diamir de Scally	University of Waterloo
Brenda Detfurth	York University
Joanne Di Maio	Conservation Halton
Emily Dutton	Credit Valley Conservation
Erinn Lee	University of Guelph
Andrew McIntyre	Crowe Valley Conservation Authority
Massimo Narini	Lower Trent Conservation Authority
Lucy Szczesniak	City of Toronto's Humber Bay Butterfly Habitat Community Stewardship Team
Amy Whitear	Ontario Nature

CONTINUE LEARNING AFTER THE SYMPOSIUM

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

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

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

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





LATORNELL

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www.ontarioconservationareas.ca

THIS YEAR'S EXHIBITORS

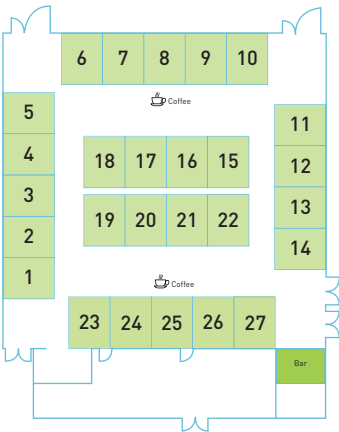
UNIVERSITY
of GUELPH



EXHIBITOR FLOORPLAN

EXHIBITOR GALLERY A

Crystal Ball Room



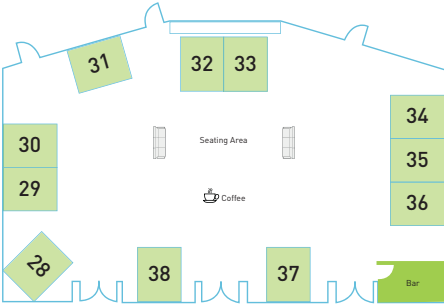
1. Winkelmolen Nursery Ltd.
2. Soleno
3. Forterra
4. Computational Hydraulics International (CHI)
5. Ministry of Agriculture, Food and Rural Affairs
6. Ducks Unlimited Canada
7. Root Rescue Environmental Products Inc.
8. Niagara Escarpment Commission
9. Forests Ontario
10. Skelton, Brumwell & Associates Inc.
11. Land Information Ontario (Ministry of Natural Resources and Forestry)
12. Ontario Geological Survey
13. Hoskin Scientific Ltd.
14. Hoskin Scientific Ltd.
15. ADS Canada
16. Federation of Canadian Municipalities
17. GHD
18. Ontario Soil and Crop Improvement Association
19. Natural Resource Solutions Inc.
20. FTS
21. GEO Morphix Ltd.
22. LID Permeable Paving
23. University of Guelph
24. Aquanty
25. KISTERS North America, Inc.
26. Book this booth next year!
27. Environmental Commissioner of Ontario

THE ONTARIO CAFÉ

Corridor Between Exhibitor Gallery A & B

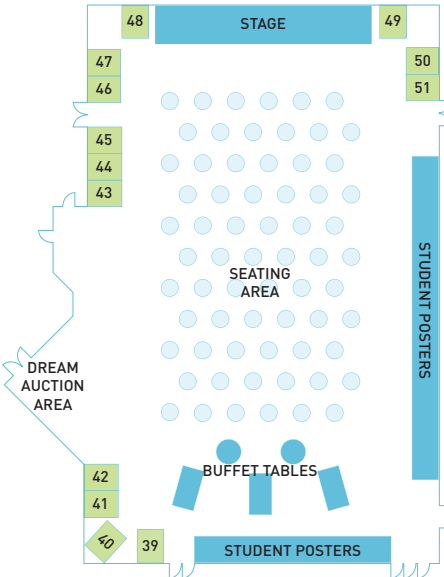
Make this one of your gathering spots! With the support of the Government of Ontario, we have created an interactive space where you can experience hands on activities and exciting new displays. Some provincial staff will be on hand to encourage your participation and discuss new provincial initiatives. They would love to hear your feedback.

EXHIBITOR GALLERY B Room 10



28. Environmental Defence: Responsible Aggregate Project
29. Layfield Construction Products
30. Water Canada
31. Latonnell Professional Development Program
32. Professional Access Into Employment (PAIE) Program TRCA
33. Environment Connections
34. Conservation Ontario
35. Conservation Ontario
36. Source Water Protection, Conservation Ontario
37. Book this booth next year!
38. Book this booth next year!

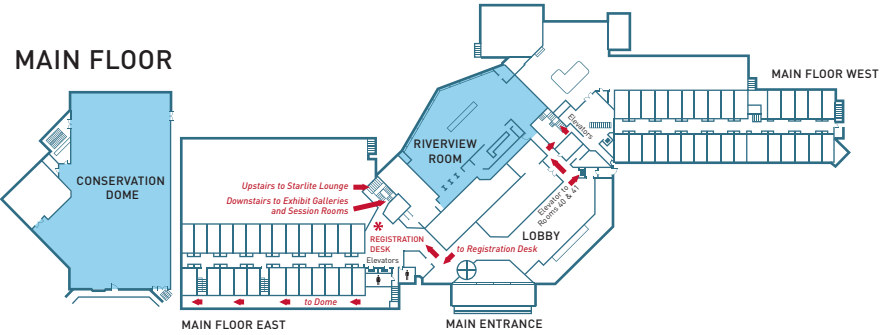
CONSERVATION DOME



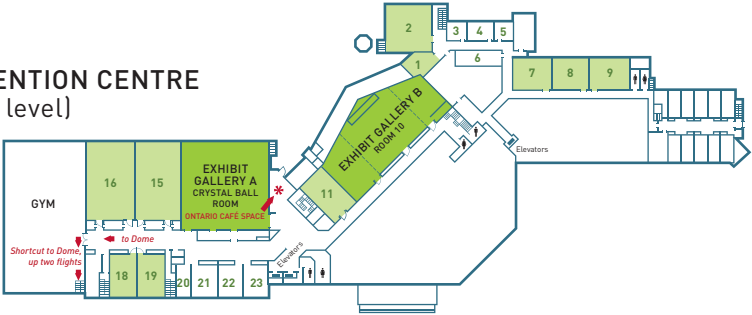
39. OMAFRA Topsoil Display
40. Holland Marsh Growers Association's Market (HMGMA)
41. Association of Professional Geoscientists of Ontario (APGO)
42. Janet Jardine Photography and Fine Art
43. Public Services Health & Safety Association
44. Office of the Auditor General of Canada – Commissioner of the Environment and Sustainable Development
45. Quality Seeds Ltd.
46. Biodiversity Education and Awareness Network
47. R.J. Burnside & Associates Limited
48. Conservation Ontario
49. Ministry of Natural Resources and Forestry
50. McCague Borlack LLP
51. Conservation Ontario

NOTTAWASAGA INN FLOORPLAN

MAIN FLOOR



CONVENTION CENTRE (lower level)



SESSION INFORMATION

SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR	SESSION	ROOM	MODERATOR
T1A	15	Ryan Carlow	W1A	15	Ryan Carlow	TH1A	15	Sarah Rixon
T1B	2	Thadsha Chandrakumaran	W1B	2	Khuram Farrukh	TH1B	2	Laura Brodey
T1C	1	Brianna Collis	W1C	1	Sara Epp	TH1C	1	Ryan Carlow
T1D	7	Jordan Graham	W1D	7	Meaghan Mechler	TH1D	7	Kirsten Grant
T1E	8	Alysse Mathalon	W1E	8	Stephen O'Neill	TH1E	8	Stephen O'Neill
T1F	9	Khuram Farrukh	W1F	9	Sara Minnes	TH1F	9	Sara Minnes

T2A	15	Laura Brodey	W2A	15	Sarah Yuckin	TH2A	15	Thadsha Chandrakumaran
T2B	2	Sarah Rixon	W2B	2	Brianna Collis	TH2B	2	Alysse Mathalo
T2C	1	Sarah Yuckin	W2C	1	Sarah Minnes	TH2C	1	Brianna Collis
T2D	7	Kirsten Grant	W2D	7	Kirsten Grant	TH2D	7	Jordan Graham
T2E	8	Cameron Curran	W2E	16	Cameron Curran	TH2E	8	Meaghan Mechler
T2F	9	Meaghan Mechler	W2F	9	Alysse Mathalon	TH2F	9	Cameron Curran

W3A	15	Jordan Graham
W3B/W4B	Front Lobby	
W3C/W4C	1	Laura Brodey
W3D	7	Stephen O'Neill
W3E/W4E	Front Lobby	
W3F	9	Sarah Rixon
W3G/W4G	16	Thadsha Chandrakumaran
W4A	15	Sarah Yuckin
W4D	7	Khuram Farrukh
W4F	9	Alysse Mathalo