



green
INFRASTRUCTURE

Collaborating
with Nature

LATORNELL

CONSERVATION SYMPOSIUM

NOVEMBER 15-17, 2016

NOTTAWASAGA INN RESORT & CONFERENCE CENTRE

2016 Preliminary Program



UNIVERSITY
of GUELPH

LATORNELL 2016

KEYNOTE SPEAKERS



Morning, Tuesday, November 15, 2016

Dr. Faisal Moola

Director General, Ontario and Northern Canada, David Suzuki Foundation



Dr. Faisal Moola is one of Canada's most respected environmental scientists and advocates. His research in conservation science and environmental policy has been published in numerous academic journals and award-winning books and he is a regular contributor to the opinion pages of Canada's leading newspapers. For the past decade Faisal has led an expert team of scientists, policy experts and community organizers at the David Suzuki Foundation, in support of the protection of Canada's cherished wild spaces and endangered species, as well as the greening of our towns and cities. Faisal has

been at the forefront of some of Canada's most iconic environmental battles, including successful efforts to protect B.C.'s Great Bear Rainforest and efforts to pass a national law to protect endangered species throughout the country. After living for several years on the west coast, Faisal has come back to the Greater Toronto Area, where he was born and raised. He is Director General for the Ontario and Canada's North Department at the David Suzuki Foundation and has an adjunct faculty appointment at the University of Toronto and York University. He's an avid cyclist and spends as much time as possible exploring the wonders of nature with his family.

Lunch, Tuesday, November 15, 2016

Dr. Dianne Saxe

Environmental Commissioner of Ontario



Dianne Saxe is the Environmental Commissioner of Ontario, a tough but fair watchdog over government compliance with the Environmental Bill of Rights. The ECO is a bridge between the public and the government on environmental issues.

Before her appointment, Dianne was one of Canada's most respected and best-loved environmental lawyers, with 40 years' experience in environmental and energy law and litigation. After 14 years in the Ontario public service, plus experience in two major Bay Street law firms, she ran one of Canada's top environmental law boutique law firms for 25 years. A Certified Specialist, Dianne was recognized in every Canadian and international legal rating service, and as one of the world's top 25 environmental lawyers by *Best of the Best, 2008*. She was Canada's leading author on environmental law, through her books, columns and www.envirolaw.com blog, and Toronto's first *Environmental Lawyer of the Year*. She received numerous other tributes, including Ontario Bar Association Distinguished Service Award and Osgoode Hall Lifetime Achievement Gold Key. Skilled writer and public speaker, with unparalleled experience writing, interpreting, and litigating Ontario's environmental laws.

Lunch, Wednesday, November 16, 2016

Brent Toderian

Founder and Principal, Toderian Urban Works



Brent Toderian is a nationally and internationally respected thought-leader on cities, and a renowned practitioner in advanced urbanism, city planning and urban design. He consults for cities & forward-thinking developers across Canada and the globe, with current or recent engagements that include cities as far away as Sydney, Auckland, Oslo, Helsinki, and Medellin, and as close as Burlington & London Ontario.

Brent's establishment of TODERIAN UrbanWORKS in 2012 followed 6 years of significant achievement as Vancouver's Chief Planner, with accomplishments that included 2010 Winter Olympics-related planning & design, the award-winning EcoDensity and Greenest City Initiatives, and strategies emphasizing a "complete city," not just a livable one. Brent was also Manager of Centre City Planning + Design, and Chief Subdivision & Neighbourhood Planner, in Calgary Alberta, and an award-winning planning + design consultant for 9 years at the beginning of his career in Ontario, with projects ranging from Toronto to Yellowknife.

Brent is the founding and current President of the Council for Canadian Urbanism, Canada's only regular radio columnist on "City-Making" with CBC Radio, a writer for the Huffington Post and many other publications, and a highly sought-after international collaborator, speaker & teacher on advanced urbanism.

Afternoon, Thursday, November 17, 2016

Avi Friedman

Professor, School of Architecture, McGill University



Dr. Avi Friedman received his Bachelor's degree in Architecture and Town Planning from the Isra Institute of Technology, his Master's Degree from McGill University, and his Doctorate from the University of Montréal.

In 1988, he co-founded the Affordable Homes Program at the McGill School of Architecture where he teaches. He also holds an Honorary Professor position in Lancaster University in the U.K. Avi is known for his housing innovation and in particular for the Grow Home and Next Home designs.

He is the author of 18 books and a syndicated columnist for the Postmedia Chain of daily newspapers. He is the principal of Avi Friedman Consultants Inc. and the recipient of numerous awards including the Manning Innovation Award and the World Habitat Award.

In the year 2000 he was selected by Wallpaper magazine as 1 of 10 people from around the world "most likely to change the way we live."

Watershed Management

T1A ROOM 15

How Much is Too Much? Cumulative Effects of Headwater Stream Loss

Small streams are being lost incrementally to development. These cumulative losses have consequences for water quality, biodiversity and ecosystem services. This session will combine empirical and modelling studies to explore and predict the downstream impacts of headwater stream loss.

An Overview of the Trim the Tribes Research Initiative: History, Objectives and Process

Les Stanfield
(Ecohealth Solutions)

Empirical Models for the Assessment of Biological Condition of Ontario Streams Using Invertebrates and Fish

Bernadette Charpentier
(University of Ottawa)

Modelling Streamflow and Stream Chemistry for Headwater Basins on the Oak Ridges Moraine Using SWAT

Ibrahim Rashid
(Trent University)

Take it From the Top: Predicting Properties of Headwater Drainage Features Using Multiscale Approaches

Brian Kielstra
(University of British Columbia)

Natural Heritage

T1B ROOM 1

Greener Roads and Highways

This session showcases Ontario examples of projects that seek to mitigate the impacts of our ever increasing road network. This session explores a wildlife ecopassage case study, ongoing research to enhance roadside vegetation survival and partnership opportunities with Ministry of Transportation highway infrastructure *Endangered Species Act* overall benefit projects.

The Wildlife Safe Passage Project: Protecting Herpetofauna

Kaitlyn Read
(Lake Simcoe Region Conservation Authority)

Greening Canada's Highways: Remediating Roadside Soils

Jason Henry
(Vineland Research and Innovation Centre)

Mitigating Provincial Highway Infrastructure: Partnership Opportunities for ESA Overall Benefit Projects

Khahy Ho
(Ministry of Transportation)

Public Places & Park Systems

T1C ROOM 8

Design and Placemaking Destinations Using Green Infrastructure

Integrating nature into urban design can create inviting spaces and foster a sense of community. Green Infrastructure projects present an opportunity to 'place make' and create destinations that also perform other important services. This session demonstrates the challenges, successes and uniquely innovative strategies of green infrastructure design in public spaces.

Intensification of Green Stormwater Infrastructure: Using Design to Achieve Social, Economic and Environmental Benefits

Ian Roul
(GeoProcess Research Associates)
and **Chad M. Carreras**
(Dillon Consulting Limited)

Landscape As Catalyst: Integrated Social Ecologies

James Roche
(DTAH)

Toronto's Green Streets

Sheila Boudreau
(City of Toronto)

Agriculture

T1D ROOM 9

The Only Constant is Change

Farming in the Past, Present and Future... what can it tell us about stewardship in the future?

Long Term Agriculture Change in Rural Ontario

Paul Smith
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Measuring Farmland Loss and Impacts on Natural Systems

Sara Epp, Dr. Wayne Caldwell and James Newlands
(University of Guelph)

Trends in Sustainable Agriculture

Nick Betts
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Communications & Marketing

T1E ROOM 11

Social Marketing Around the Home and in the Community

Even when the value and benefits of specific actions are well communicated, behavioural change can be fraught with barriers that keep people stuck in their old routines. Participants in this session share experiences and techniques for achieving environmental change around the home and in the community.

Septic Savvy - A CBSM Approach to Septic Maintenance

Katie Stammer
(Essex Region Conservation Authority)

Creating a Trend in Water Efficient Gardening

Mary Hemmingway
(The Regional Municipality of York)

Testing a Neighbourhood-Based Approach to Mitigating Basement Flood Risk

Cheryl Evans
(University of Waterloo)

Curb The Salt Campaign - Building Awareness on Winter Salt and Water Quality

Leanne Lobe and Colleen Brown
(Region of Waterloo)

Stormwater

T1F ROOM 2

Showcasing Success: Supporting Dynamic Flows Using LID

Dynamic flow regimes play an important role in maintaining riverine ecological health. This session explores how the strategic use of LID helps with this, and also how public spaces can be leveraged to maintain predevelopment hydrology.

Assessing LID Practices on Corporate Grounds - Successes, Challenges and Ongoing Initiatives

Alex Fitzgerald
(Credit Valley Conservation)

Getting Green Infrastructure on Public Lands: Understanding Maintenance through Monitoring to Ensure Long-Term Performance

Alexandra Veglio
(Credit Valley Conservation)

Using Green Infrastructure to Meet Environmental Flow Needs

Cassie Schembri and Wolfgang Wolter
(Ecosystem Recovery Inc.)

Watershed Management

T2A ROOM 15

Au Naturel: Storm Water Management Ponds and Reclaimed Lands

This session will look at storm water management, the natural way and examine the enhancement of the Windermere Basin (14 ha wetland restoration completed in 2012). When different levels of government, developers, landowners, and stakeholder groups work together, the results can be powerful.

Storm Water Management Ponds - The Natural Way

Mike Williams

(Ducks Unlimited Canada)

Enhancement of Windermere Basin - 4 Years After Restoration

Mark Bassingthwaite
(Cole Engineering Group Ltd.)
Gord Wichert
(SLR Consulting Canada)
and John Helka
(City of Hamilton)

Natural Heritage

T2B ROOM 1

Protecting Species at Risk

Habitat loss, degradation and invasive species are impacting Ontario's species at risk. This session will discuss how green infrastructure can benefit these species through regulations and recovery plans, and how long-term monitoring information can influence restoration efforts.

Reducing Anthropogenic Threats to Aquatic Species at Risk Through Green Infrastructure, Mitigation, and Recovery Actions

Shelly Dunn and Dave Balint

(Fisheries and Oceans Canada)

Hine's Sight is 20/20: The Importance of Long-term Species at Risk Data Sets

Heather Polan

(GHD)

Public Places & Park Systems

T2C ROOM 8

Land Securement - Green Infrastructure at the Landscape Scale

Green infrastructure considerations at a landscape scale are important with respect to wildlife movement, climate change and biodiversity. This session will focus on the protection and conservation of large natural areas using experiences from Algonquin to Adirondacks, Cootes to Escarpment Ecopark system, and places of biodiversity value in Southern Ontario.

Protecting Green Infrastructure at the Landscape Scale: The Algonquin to Adirondack Collaborative

David Miller
(Algonquin to Adirondacks Collaborative)

The Cootes to Escarpment EcoPark System; an Innovative Partnership for Preserving, Restoring and Stewarding Natural Lands

Peter Kelly
(Cootes to Escarpment EcoPark System)

Protecting our Living Infrastructure: Places of Biodiversity Value

Graham K. Bryan
(Environment and Climate Change Canada - Canadian Wildlife Service)

Agriculture

T2D ROOM 9

Stewardship Beneath Your Feet

Learn how Ontario is well-positioned to become a low-carbon food production leader

Healthy Soils: The Most Fundamental Form of Green Infrastructure

Glenn Munroe
(Office of the Environmental Commissioner of Ontario)

Sampling for Soil Health and Conservation Strategies

Andrew Barrie
(Ontario Ministry of Agriculture, Food and Rural Affairs)

Communications & Marketing

T2E ROOM 11

The Midst of a Digital Revolution

Now, more than 15 years since the popularization of the web, digital technology has forever changed the way we communicate. Whether marketers, ecologists or administrators, we are confronting powerful forces that are shifting the way we interact with each other and with organizations, how dialogue occurs, how decisions are made, and how relationships are forged.

Meeting the Challenges of a Changing Communications Landscape

Rick Sikorski
(Toronto and Region Conservation)

Mastering the Message in a 2.0 World

Sandi Ramsay
(Lower Trent Conservation)

Online and Interactive: Free Visualization Tools for Communicating the Science on Controversial Projects

Ivana Vouk
(National Research Council Canada)

Stormwater

T2F ROOM 2

Soaking It In: RainScaping to Restore Watershed Hydrology

Learn how a multi-pronged approach to combating the ills of urban stormwater in the Lake Simcoe Basin is working to protect and restore the Lake's health through depaving, disconnection, LID implementation and other initiatives.

Mainstreaming Low Impact Development Within the Lake Simcoe Watershed

Ben Longstaff
(Lake Simcoe Region Conservation Authority)

Setting New Guidelines for Stormwater Management: Treating the 90th Percentile Rain Event

Tom Hogenbirk
(Lake Simcoe Region Conservation Authority)

A Modeling Tool to Assist Incorporation of LID into New Development and Retrofit Opportunities

Steve Auger
(Lake Simcoe Region Conservation Authority)

A Path to Recovery - Developing and Implementing Urban Focused Stewardship Program

Andee Pelan
(Lake Simcoe Region Conservation Authority)

Watershed Management

T3A ROOM 15

A Balancing Act: The Wetland Water Balance Project

Inadequacies of existing development projects have demonstrated the need for preserving wetland form and function through water balance. This project team has advanced their understanding of wetland ecohydrology and used their analysis to support hydrologic modeling tools and monitoring guidelines to help predict and mitigate impacts of an urbanizing landscape.

A Balancing Act: Preserving Wetland Ecohydrological Functions through Water Balance

Neil Taylor
(Toronto and Region Conservation)

Protecting Urban Wetlands Through Hydrologic Modelling Approaches to Support Green Infrastructure Design

Caroline Charbonneau
(University of Guelph)

Comparative Evaluation of Different Continuous Hydrologic Models in Simulating Wetland Hydrology

Dilnesaw Chekol and Nathan Plato
(Toronto and Region Conservation)

Natural Heritage

T3B ROOM 1

Species at Risk Stewardship Fund: Celebrating 10 Years!

Come learn about MNRF's Species at Risk Stewardship Program, including insight into the review process, and tips for submitting a successful funding proposal. Co-delivered by MNRF staff and funding recipients, several stewardship project success stories will be featured. Learn about the work underway to help recover some of Ontario's rarest species.

Species at Risk Stewardship Fund: Overview and Tips for Applicants

Kim Jaxa-Debicki
(Ministry of Natural Resources and Forestry)

Conserving Ontario's Badgers

Josh Sayers
(Ontario Badger Project)

Queen Snake Stewardship in Ontario

Rachel White
(Huron Stewardship Council)

Sydenham River Habitat Stewardship Program

Steve Shaw
(St. Clair Region Conservation Authority)

Public Places & Park Systems

T3C ROOM 8

Public Spaces: Crowded Places

Public parks and open spaces are experiencing a wave of visitation previously unrecorded. Residents and tourists are seeking natural experiences, outdoor recreational pursuits or merely outdoor opportunities in a densely urban environment. Park managers need to find new ways to provide experiences for a growing and increasingly diverse population with limited space and other resources. Listen to the challenges and opportunities faced by municipal, CA and federal parks managers as they battle the growing green infrastructure deficit.

The Municipal Parks Perspective

Paul Ronan
(Ontario Parks Association)

The Conservation Areas Perspective

Chris Hachey
(Grey Sauble Conservation Authority)

The Federal Parks Perspective

John Haselmayer
(Bruce Peninsula National Park / Fathom Five National Marine Park)

Agriculture

T3D ROOM 9

I Don't Know What I Don't Know - Open Source Data Sets

Digital tools can be the bridge between field work and planning. Learn about examples from the local, provincial and federal level that can help you in your project or program design!

2015 SWOOP Data

Tracey McPherson
(Ausable Bayfield Conservation Authority)

Canadian Crop Mapping

Leander Campbell
(Agriculture and Agri-Food Canada)

Updating Soil Maps

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

Communications & Marketing

T3E ROOM 11

Decoding Your Audience

Who are the people that make up your target audience? What do they value? What are their frames of reference? It's easy to ask questions about audiences, but how do you actually find what makes specific groups of people tick, and then what do you do once you've found out?

Communicating with the Right Target Audience in a Shifting Landscape

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

Canadian Attitudes Towards Water: A Decade of Polling

Sarah Thompson
(Royal Bank of Canada)

Using Public Opinion Polling Data to Connect With Watershed Residents on the Health of Lake Erie

Raj Gill
(Canadian Freshwater Alliance)

Google for Green: Targeting Online Audiences, Crafting Google Ads, and Mining Campaign Data

Paul Cassel
(Up Marketing)

Stormwater

T3F ROOM 2

End of the Line for End of Pipe? Comparing Conventional and Low Impact SWM Approaches

The implementation of green infrastructure in Southern Ontario has increased substantially in the last two decades. This session will unpack the vital role that soil health and compaction play in determining the performance of green infrastructure.

Comparative Performance of Green Infrastructure and Conventional Stormwater Management Practices: Insights from over 20 years of Monitoring in the Toronto Region

Tim Van Seters
(Toronto and Region Conservation)

Creating More Absorbent Landscapes Through Soil Management Best Practices

Dean Young
(Toronto and Region Conservation)

Watershed Management

W1A ROOM 15

Water and Wastewater Systems: Managing Today's Issues

Water and wastewater management are critical components for both urban and rural municipalities and landowners. This session will examine water and wastewater systems in an urban and rural context, data management, centralized versus decentralized systems and the importance of integrated watershed management.

Watershed Approach to Management of Water Supply and Wastewater Systems: Gaps and Issues

Stephanie Worrion
(University of Guelph)
and James Johnstone
(Town of Innisfil)

Management of Private Water and Waste Water Systems in Rural Ontario

John Fitzgibbon
(University of Guelph)

Decentralized Wastewater Treatment Is Sustainable Infrastructure

Rick Esselment
(Ontario Onsite Wastewater Association)

Natural Heritage

W1B ROOM 1

Natural Infrastructure in the Big Picture: On-ground Options for a Green and Healthy Future in Canada's Deep South

In Carolinian Canada, where the stakes are high for rare species, human communities and agriculture, natural infrastructure is a cost-effective climate change survival kit. But we need to reverse the centuries-old trend of biodiversity loss. What is feasible starting with <3% protected land? Who is sparking game-changing shifts in landcare from Toronto to Windsor?

Moderator
Michelle Kanter
(Carolinian Canada Coalition)

Big Picture Challenges – Where Do We Go from 6% Natural Habitat?

Don Pearson
(Lower Thames Valley Conservation Authority / Carolinian Canada)

Urban Approaches – Where Do We Go from 13% Natural Habitat?

Patrick Donnelly
(City of London)

First Nations Opportunities – Where Do We Go from 67% Natural Habitat?

Clint Jacobs
(Walpole Island Heritage Centre)

Stewardship

W1C ROOM 19

Restoration isn't Easy; But the Pay-off is Big!

From difficult site conditions to the challenges with harnessing volunteer labour, restoring the ecological value of land is always more difficult and time-consuming than you anticipate. Learn from practitioners as they talk about successes and how to avoid some pitfalls.

Port Granby Nature Reserve: Realizing the Vision

Amy Burke
(Municipality of Clarington)
and Mark Peacock
(Ganaraska Region Conservation Authority)

Improving Green Infrastructure in a School Setting: Peel EcoSchools

Rachel Stewart
(Toronto and Region Conservation)

Get to the Source – How the City of Guelph Protects Its Acreage and Aquifers with Trees

Karen McKeown and Jennifer Gilks
(City of Guelph)

Agriculture

W1D ROOM 9

New Initiatives – Highlights from the Sub-watershed Project

To achieve measurable improvements in water quality, we need to know critical information. Join us to see what they discovered!

Maitland Valley – Garvey Glenn Drain
Sarah Fleischhauer
(Maitland Valley Conservation Authority)

Wigle Creek
Katie Stammer
(Essex Region Conservation Authority)

Medway Creek
Craig Merkley
(Upper Thames River Conservation Authority)

Communications & Marketing

W1E ROOM 2

What Resonates with Governments

Environmental protection and enhancement can be enacted on a much larger scale through policy and legislative changes by governments; but with election commitments and limited resources, which environmental issues gain priority? This session explores the importance of government relations to the environmental sector.

Environmental Communications: Strategic and Political Considerations
Don Huff
(ECO Strategy)

Green Infrastructure Ontario Coalition: Provincial, Federal, and Municipal Policy Progress
Michelle Sawka
(Green Infrastructure Ontario Coalition)

Influencing Canadian Policy on Carbon and Clean Innovation
Andrew Craig
(Royal Bank of Canada)

A Foot in the Door - Leveraging Government Relations
Lisa Turnbull and Elizabeth Oakley
(Toronto and Region Conservation)

Stormwater

W1F ROOM 11

Making It Work: Plans, Guidance and Approaches for Getting LID into the Ground

Forays into the use of LID can seem complicated. Luckily, help and guidance exists. Join staff from Credit Valley Conservation as they review the ins and outs of LID retrofit projects from the design stage all the way through to construction and assumption. Approaches to estimating the long-term costs and savings of LID will be explored.

Grey to Green Road Retrofits for Road Right-of-Ways:

- Principles of LID design for Road Right-of-way Projects
Cassie Schembri
(Credit Valley Conservation)

- Principles of LID Construction for Road Right-of way Projects
Samantha Paquette
(Credit Valley Conservation)

- Principles of LID Inspection and Maintenance
Kyle Vander Linden
(Credit Valley Conservation)

Green Economy

W1G ROOM 18

Stormwater Fees

Stormwater management currently has a number of challenges including increasing permeable surfaces, climate change, and aging infrastructure. To help address these challenges, some local governments have begun implementing stormwater fees or charges. This session will outline a number of these case studies, including the recent initiative in the City of Mississauga.

Using Fees to Address Current Stormwater Management Challenges; Home and Abroad
Jessica Isaac
(Office of the Environmental Commissioner of Ontario)

Collaborate for Success! CA-Municipal Partnerships to Maximize Stormwater Charge and Green Infrastructure Opportunities
Victoria Kramkowski
(City of Mississauga),
Alyssa Cerbu
(Partners in Project Green / Toronto and Region Conservation) and
Deborah Kenley
(Credit Valley Conservation)

Watershed Management

W2A ROOM 15

The One Water Approach: Framework for the Integrated Management of All Water Systems

This session will provide insight into the barriers, challenges and silos that exist in current water management systems that hinder the 'one water' paradigm shift. The session will also highlight lessons learned through steps taken towards implementation of a 'one water' approach as well as integrated holistic assessment approach and case studies demonstrating economic, environmental and social benefits derived by participating facilities.

Towards a "One Water" Approach:

- What is a One Water Approach?

Jayeeta Barua
(Credit Valley Conservation)

- Practical Case Studies and Lessons Learned from Implementing One Water Projects in Ontario

Bruce Taylor
(Enviro-Stewards)

- What's Next? How to Drive Wide Scale Adoption of One Water?

Kyle Vander Linden
(Credit Valley Conservation)

Natural Heritage

W2B ROOM 1

Biodiversity Matters! The Role of Biodiversity in Attenuating Flood Risk

Join the members of the Ontario Biodiversity Council and explore the concept and practice of "natural" green infrastructure and the opportunity it provides to build climate resilience into the conservation fabric of Ontario's communities and landscapes. This session will highlight current work and critical next steps to enhance resilience.

Moderator
Biodiversity Matters! Opening Remarks
Steve Hounsell
(Ontario Biodiversity Council)

Panel
Managing Storm Water with Natural Systems
Deborah Martin-Downs
(Green Infrastructure Ontario)

Weathering the Storm with Wetlands
Lynette Mader
(Ducks Unlimited Canada)

Developing a Business Case for Wetlands Preservation
Natalia Moudrak
(Natural Infrastructure Adaptation Program at Intact Centre on Climate Change Adaptation)

Stewardship

W2C ROOM 19

Engaging Citizens and Homeowners to Take Actions to Enhance Our Natural Systems

One of the biggest challenges in stewardship is that it will almost always be easier to just NOT do the work. This session explores different ways of connecting with landowners and volunteers to inspire them to do projects for the greater good.

Hamilton Harbour Watershed Stewardship Project - 20 Year Summary (1994 - 2014)
Kent Rundle
(Conservation Halton)
and Sheila O'Neal
(Hamilton Conservation Authority)

Insight into Outreach: BlueScaping in the Kawarthas
Greg Bunker
(Kawartha Conservation)

Growing Community by Seed: The Native Plant Propagation Program
Kirushanth Gnanachandran
(The Riverwood Conservancy)

Agriculture

W2D ROOM 9

Using Land as a Means of Stewardship

Learn why soil health is important and what is being done to conserve it. Discover opportunities to adapt land use for food production and to build green infrastructure.

Farmland as Green Infrastructure: Supporting Local Food and Farming on Conservation Lands
Matt Setzkorn
(Ontario Farmland Trust)

Backyard Bounty: Transforming Urban Land into Local Food Havens
Kate Potter
(Orland Conservation)

Communications & Marketing

W2E ROOM 11

Building Green Infrastructure Communities

What compels people to get involved in green infrastructure? The presenters in this session share how they have engaged people, communities and even coworkers to take an active role.

Kingscourt Groundbreakers: A Rain Garden Program for a Flood-Prone Neighbourhood in Kingston, ON
Alec Ross
(Red Squirrel Conservation Services)

Using the Latest Multi-Media Tools to Engage Schools in Green Infrastructure
Julie McManus and Jakub Wrobel
(Credit Valley Conservation)

York Region's Interdepartmental Communication and Collaboration on Healthy Forests and Healthy Communities
Carol Karner and Heidi Breen
(The Regional Municipality of York)

Stormwater

W2F ROOM 2

Multifunctional Rural Infrastructure for Multifaceted Needs

What green infrastructure opportunities and inventories exist on the rural landscape? Join us as we showcase ways in which green infrastructure can shape the overall rural landscape system, and how municipal drains can be an integral component of a rural stormwater treatment train.

The Case for Using Green Infrastructure in Planning Resilient Rural Communities
Paul Kraehling
(University of Guelph)

Use of Drainage Act Assessments to Evaluate Costs of Rural Natural Channel Design
Jacqui Empson Laporte
(Ontario Ministry of Agriculture and Rural Affairs)

Green Economy

W2G ROOM 18

Green Asset Management

Explore how asset management and natural capital principles can be applied to green infrastructure assets. These assets provide important services and by highlighting the social and economic costs of potential engineered replacements, asset management can help improve urban planning processes and increase integration of green assets into communities.

Developing an Asset Management Framework for Eco-Assets
Shauna Dunsford
(Corporation of the City of Barrie)

Incorporating the Value of Municipal Natural Assets into Decision-making
Tatiana Koveshnikova
(Credit Valley Conservation)

Tour - Watershed Management

W3A LOBBY

Tour of City of Barrie's Surface Water Treatment Plant and Wastewater Treatment Plant

Join us for a tour of Barrie's Surface Water Treatment Plant where treatment consists of primary screening, flocculation, membrane filtration, granular activated carbon contactors and disinfection with chlorine gas. Afterwards, we will visit Barrie's wastewater treatment plant, the only wastewater treatment plant serving Barrie which dates to c. 1911. The plant has grown to a capacity of 76 MLD utilizing the activated sludge process as its basis but is supplemented with rotating biological contactors for nitrogen removal and sand filtration for effluent polishing. The plant uses a variation on the conventional aeration process - the "UNOX" process - which uses pure cryogenic oxygen as a source of oxygen rather than atmospheric oxygen provided by blowers.

Please wear safety shoes for this tour

Martin Shaw
(City of Barrie)

Natural Heritage

W3B-1 ROOM 1

Hitting Ontario's Targets: Visualizing Success for Natural Heritage and Protected Areas

The Ontario Biodiversity Council is taking aim at two of Ontario's Biodiversity Strategy targets: (1) Develop and implement natural heritage systems plans and biodiversity conservation strategies; and (2) Conserve at least 17 per cent of terrestrial and aquatic ecosystems. The workshop will assess progress, identify roadblocks and explore how to achieve success.

Part 1 - Moderator
Caroline Schultz
(Ontario Nature)

Part 1 - Panel
Regional and Municipal Best Practices for Natural Heritage Systems Planning
Josh Wise
(Ontario Nature)

Natural Heritage Systems - from Maps to Plans
Ken Towle
(Ganaraska Region Conservation Authority)

Why We Need Provincial Led Natural Heritage Systems Planning
Victor Doyle
(Ontario Ministry of Municipal Affairs)

Establishing Functioning Ecosystems Across Highly Diverse Landscapes
Jarmo Jalava
(Carolinar Canada Coalition)

Stewardship

W3C ROOM 19

Stewardship Strategies for Green Infrastructure

Partnerships are a key factor for success when it comes to growing green infrastructure in your community. In this session you will learn about the diverse perspectives offered by stewardship practitioners on how they are achieving success, building partnerships and gathering funding opportunities to support landscape level green infrastructure projects in their communities.

Moderator
Great Lakes Guardian Community Fund
Faith Sayavong
(Ministry of Environment and Climate Change)

Presentations
A Landscape Approach to Green Infrastructure
Suzanne Barrett
(Stewardship Network of Ontario)

Grow Your Legacy - An Integrated Strategy for Expanding Green Infrastructure
Kyle Heeley
(The Regional Municipality of York)

Panel
Rural Perspective
Mari Veliz
(Ausable Bayfield Conservation Authority)

Urban Perspective
Kent Rundle
(Conservation Halton)

Shoreline Perspective
Holly Shipclark
(Kawartha, Naturally Connected)

Agriculture

W3D ROOM 9

Innovative Farmers Panel

This interactive session will cover relevant questions such as: What farming practices do I use, what's important to me, what challenges do I face and the big question - what am I going to try next?

Facilitator
Melisa Luymes
(Farm & Food Care Ontario)

Panel
Andy VanNiekerk
(Director - Innovative Farmers Association of Ontario)

Jim Patton
(Director on Innovative Farmers Association of Ontario Board)

Communications & Marketing

W3E ROOM 11

Marketing Science - Environmental Visual Communication

Solutions to long-term sustainability are not found solely in the realm of science. Environmental visual communication is an emerging field and its practitioners are key leaders who, through collaboration and deliverables, can build bridges between science and society. The ultimate goal is to motivate the public to care about and become active participants in sustaining our ever-changing world. Short, powerful narratives using video, design elements, online campaigns, and photographic portfolios will inspire you to consider your own work through a new lens.

Faculty
Dave Ireland,
Josh Feltham,
Stacey Lee Kerr,
Brett Forsyth,
Brennan Caverhill,
and Vincent Luk
(Royal Ontario Museum / Fleming College)

Students
Camille Tremblay
Beaulieu,
David Coulson,
Filip Szafirowski,
Jaime Kearnan,
Marlaine Munroe,
Matthew Brocklehurst,
Paul Esposti,
Rhi More,
Shannon Murray,
Teghan Dodds,
Temira Bruce,
Tiffany Moore,
Sally McIntyre,
and Samantha Stephens
(Royal Ontario Museum / Fleming College)

Stormwater

W3F ROOM 2

Strategies and Tools for Building Green Infrastructure Today

Join us as we explore ways to maximize the success of green infrastructure initiatives through collaborative opportunities between communities, municipalities and conservation authorities. Public perceptions, novel policies and innovative mechanisms will be reviewed.

Public Perceptions of LID
Tracy Patterson
(Freeman and Associates)

Soak It Up! Strategies for Local Implementation of Green Stormwater Infrastructure
Alix Taylor
(Green Communities Canada)

The Grid Approach to LID
Kyle Vander Linden and Bill Trenouth
(Credit Valley Conservation)

Achieving Wide Scale Adoption of Green Infrastructure through Public/Private Partnerships
Phil James
(Credit Valley Conservation)

Green Economy

W3G ROOM 18

Valuing Ecosystem Services

Please note session takes place from 2:00 PM - 3:30 PM

This session will draw from different cases of ecosystem service valuation in the Greenbelt, York Region and Lake Erie to explore how people use natural capital, how effects on natural capital affect economic and overall welfare of people, and how forest canopy data is applicable beyond just forest management.

Natural Capital Valuation of Ontario's Greenbelt 2016
Thomas Bowers and Jeff Wilson
(Friends of the Greenbelt Foundation)

The Cost of Doing Nothing
Brad Bass
(Environment Canada)

Urban Forest Study: Quantifying a Range of Benefits
Phil Davies and Gary Grewal
(Lake Simcoe Region Conservation Authority)

Mentorship

W3H ROOM 21

Rethinking Career Development: Stories and Lessons Learned from Green Professionals

Professional development is an ongoing commitment, and mentorship opportunities exist which allow us to develop new skills and learn from friends and co-workers at various stages of their - and our own - careers. Join us for this interactive session where we will explore some of the tools which exist to jump-start and reinvigorate careers, provide insight into the hiring process and share real-world stories about the benefits of two-way learning between senior practitioners and junior staff. Unique ways to develop leadership, interpersonal and other 'soft' skills will be explored.

Accelerating Your Career in Conservation
Gregg McLachlan
(Work Cabin)

Mutual Mentorship
Katherine Wallace
(University of Toronto)

Leadership and Career Development
Andrew Kett
(Credit Valley Conservation / YCP)

Natural Heritage

W3B-2 ROOM 1

Hitting Ontario's Targets: Visualizing Success for Natural Heritage and Protected Areas (Ontario Biodiversity Strategy)

The Ontario Biodiversity Council is taking aim at two of Ontario's Biodiversity Strategy targets: (1) Develop and implement natural heritage systems plans and biodiversity conservation strategies; and (2) Conserve at least 17 per cent of terrestrial and aquatic ecosystems. The workshop will assess progress, identify roadblocks and explore how to achieve success.

Part 2 - Moderator

Mark Stabb
(Nature Conservancy of Canada)

Part 2 - Panel

The Status of Protected Areas in Ontario

Rob Davis
(Ministry of Natural Resources and Forestry)

What May Count As "Other" Protected Lands

Graham Bryan
(Canadian Wildlife Service)

The Bigger Picture – Connecting Protected Spaces

Dan Kraus
(Nature Conservancy of Canada)

How We Move Ahead

Anne Bell
(Ontario Nature)

Green Economy

W4G ROOM 8

Socioeconomics of Parks, Trails & Natural Heritage

Please note session takes place from 3:30 PM - 5:00 PM

This session will explore strategies to increase support for conservation land, urban meadows, green space, nature reserves and parks through demonstrating the socioeconomic benefits of their conservation, as well as income generating practices to help cover costs of public ownership.

Native Meadows as Urban Infrastructure

Stefan Weber
(St. Williams Nursery & Ecology Centre)

Securing Parks and Trails: Enhance Economy, Tourism and Community Benefits

Robert Orland
(Orland Conservation)
and **Wayne Terryberry**
(Ontario Trails Council)

Income Generation from Conservation Land: A Review from North America

Kate Potter
(Orland Conservation)

Watershed Management

TH1A ROOM 15

How Great are the Lakes? Improving Water Quality Monitoring, Modeling and Assessment

Great Lakes challenges include nutrient loading, algal blooms, and impacts on drinking water, resource-based industries, and habitat. Lessons learned from this session will address three aspects of assessing Great Lakes water quality: monitoring protocols and plans, modelling tools, and condition assessments.

Evaluating the Spatial Distribution of Phosphorus in the Middle Grand

Thadsha Chandrakumaran
(University of Waterloo)

Modeling and Monitoring Needs to Understand Nutrient Dynamics from Land to Lake

Amanjot Singh
(Credit Valley Conservation)

Implementing a Monitoring Protocol for the Great Lakes Nearshore Area

Aleksandra (Ola) Panczyk
(Nottawasaga Valley Conservation Authority)

Natural Heritage

TH1B ROOM 1

Lessons from Ontario's UNESCO Biosphere Reserves

Biosphere Reserves are recognized by the United Nations Educational, Scientific and Cultural Organization. This session will explore and highlight how Ontario biosphere reserves are working together through partnerships with Indigenous communities, industry partners, and diverse agencies to successfully address issues of sustainability while connecting people to the benefits of the biosphere.

Biosphere Reserves 101: Connecting People to the Benefits of the Biosphere

Lisa Grbinicek
(Niagara Escarpment Commission)

Partnership Based Vegetation Monitoring: Re-Inventory of the Niagara Escarpment Biosphere Reserve

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

Eco-centric Land Use Planning as a Watershed Scaled Approach to Green Infrastructure: Future Directions for the Georgian Bay Biosphere Reserve

Kendall Flower
(Georgian Bay Land Trust)

Stewardship

TH1C ROOM 19

Work Smarter, Not Harder: Tools of Stewardship

Busy Stewardship Practitioners always seem to be doing more with less these days. Fortunately there are new "tools" being created that help to prioritize projects and ensure that scant time and resources are maximized to get the most "bang for the buck" out of every initiative.

Stewardship Priorities and Opportunities Tool - Identifying and Prioritizing Stewardship Opportunities in the Lake Simcoe Watershed

Bill Thompson
(Lake Simcoe Region Conservation Authority)

Developing a Stream Stewardship Database

Dylan Radcliffe
(Radcliffe Environmental Consulting)

Embracing WebGIS: A Look at How Dillon Consulting Uses WebGIS to Improve Operational Efficiency

Paul Barker
(Dillon Consulting)

Tours

TH1D LOBBY

Sustainability at York Region's Bill Fisch Forest Stewardship and Education Centre

Tour starts at 8:30 AM and returns at 1:00 PM.

Join us as we take a ride in style (coach bus) to tour the Bill Fisch Forest Stewardship and Education Centre (www.vimeo.com/141227639), located at the Hollidge Tract in Whitchurch-Stouffville. The building is pursuing Living Building Challenge certification, a sustainable building certification achieved by only 11 buildings in the world to date! The education centre's green features include a target of net zero energy and water use. Through solar panels, the building is expected to generate more energy than it uses on an annual basis! Presentation on-site will focus on green building design, sustainable forest management, accessible trail design, afforestation and prairie restoration at York Region's Bendor and Graves forest tract. Please dress appropriately for a short hike in the forest afterwards.

A packed lunch will be served on the return bus trip – please advise info@latornell.ca of any food allergies upon registration.

Barb Davies
(The Regional Municipality of York)

EcoHealth

TH1E ROOM 21

Ecohealth Policy Toolkit: Realizing the Benefits of Green Infrastructure for Human Health and Wellbeing

Join us for a workshop on how we can use green infrastructure – including parks, trails, conservation areas, schoolyards and greener neighbourhoods – to benefit health and wellness, both physical and mental. EcoHealth Ontario will present a draft policy toolkit and participants will provide feedback and contribute their own examples of innovative work to incorporate health and wellness benefits into green infrastructure.

Noah Gaetz
(Toronto and Region Conservation)

Suzanne Barrett
(EcoHealth Ontario)

Karen Wiannecki
(Planning Solutions)

Morgan Levison
(Simcoe Muskoka District Health Unit)

Mike Puddister
(Credit Valley Conservation)

Stormwater

TH1F ROOM 2

Stormwater Management in Rural Watersheds - Challenges and Solutions

With a special focus on rural watersheds, this session will examine climate change trends and the associated effects on stormwater quality, and will provide recommendations for addressing degraded water quality from agricultural land uses through the use of emerging technologies and strategies.

Precipitation and Climate Change Trends in the Upper Thames River Watershed

Dr. Imtiaz Shah
(Upper Thames River Conservation Authority)
and Yun Xia
(Western University)

Implementing and Assessing Targeted Agricultural Stewardship

Karen Jacobs
(Ontario Soil and Crop Improvement Association)

Reducing Phosphorus Loss From Farmland Through Improved Water Management and Drainage in the Thames River Basin

Nicola Crawhall
(Great Lakes and St. Lawrence Cities Initiative)

Watershed Management

TH2A ROOM 15

The River's Rising: Monitoring, Mapping and Flood Control

The management of data, monitoring, and the role of climate change is critical in considering floodplain management and flood control. This session will provide an overview of the importance of a monitoring network, updating floodplain mapping using current information, and the role of storm water management in flood control.

Enhancement of a Real-time Hydrometric Network to Support Flood Warning/Vulnerability Initiatives

Tim Kuntz
(Credit Valley Conservation)

Floodplain Mapping under Changing Environmental Conditions – A Case Study from Nova Scotia

Juraj Cunderlik
(GHD Ltd.)

Flood Storage, an Integral Part of Green Infrastructure

Wilfred Ho
(Toronto and Region Conservation)

Natural Heritage

TH2B ROOM 1

Natural Heritage System Tools and Planning

Connected natural heritage systems support the protection and development of green infrastructure. This session first provides an overview of natural heritage systems planning responsibilities, tools and opportunities. This is followed by a case study highlighting lessons learned regarding the development of a natural heritage system through the ongoing work of Kawarthas, Naturally Connected.

Natural Heritage Systems Planning Tools

Michael Wynia
(Skelton, Brumwell and Associates Inc.)

Lessons from Natural Heritage System Planning in Peterborough and the Kawarthas

Amanda Warren
(Kawarthas, Naturally Connected)

Stewardship

TH2C ROOM 19

Low Cost/Low Tech: Solutions for Farm Water Runoff

WASCoBs and biofilters are low tech solutions to protecting rural water quality. This session will present research and results implementing these solutions on farms in the Ausable-Bayfield, Upper Thames and Lake Simcoe watersheds.

Improving Agricultural Runoff Water Quality with WASCoBs

Ross Wilson
(Ausable Bayfield Conservation Authority)

Biofilters to Treat Agricultural Runoff I: Woodchips

Dr. Will Robertson
(University of Waterloo)

Shrimp Shell Biopolymers and Red Sand, Hybrid Materials for Attenuating Soluble Phosphate Generated by Agricultural Activity

Dr. Bulent Mutus
(University of Windsor)

Tours

TH2D LOBBY

Sustainability at York Region's Bill Fisch Forest Stewardship and Education Centre

Continuation of TH1D

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Join us as we take a ride in style (coach bus) to tour the Bill Fisch Forest Stewardship and Education Centre (www.vimeo.com/141227639), located at the Hollidge Tract in Whitchurch-Stouffville. The building is pursuing Living Building Challenge certification, a sustainable building certification achieved by only 11 buildings in the world to date! The education centre's green features include a target of net zero energy and water use. Through solar panels, the building is expected to generate more energy than it uses on an annual basis! Presentation on-site will focus on green building design, sustainable forest management, accessible trail design, afforestation and prairie restoration at York Region's Bendor and Graves forest tract. Please dress appropriately for a short hike in the forest afterwards.

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Barb Davies
(The Regional Municipality of York)

EcoHealth

TH2E ROOM 21

Using Green Infrastructure to Battle Skin Cancer

Skin cancer is the most common cancer in Ontario and represents one third of all new cancer cases. Providing built and natural shade (created by a healthy tree canopy) is universally acknowledged as an essential tool for skin cancer prevention, while providing other co-benefits such as mitigating the urban heat island effect and stormwater management. This session will look at how to achieve effective shade through planning, policy, and design.

Skin Cancer Prevention Through Designing for Shade (Part 1)

George Kapelos
(Ryerson University)

Skin Cancer Prevention Through Designing for Shade (Part 2)

Sheila Boudreau
(City of Toronto)

'Partners in Action' / Toronto Shade Policy Video

Stormwater

TH2F ROOM 2

Adapting Communities to a Changing Climate

Join us as we celebrate the successes surrounding how LID technologies are being incorporated into community designs for flood resiliency, and how they are helping to reduce the costs of stormwater management.

Climate Adaptation: Key Considerations for Building Flood-Resilient Communities in Canada

Natalia Moudrak
(Intact Centre on Climate Adaptation)

Naturescaping- A Community-Led Revolution in the Design of Stormwater Systems

Hilary Van Welter
(ReWilding Lake Simcoe)
and Mitch Harrow
(Ontario Water Centre)

Watershed Management

TH3A ROOM 18

Managing Expectations: Balancing Perceptions, Risks, and Costs in Modified Rivers

River and stream channels have often been engineered, and more recently are being rehabilitated, to address flood and erosion risks and protect nearby infrastructure and habitat. This session will explore how space, costs, uncertainty, and the perceptions of industry and the public are competing factors influencing the design and management of these systems.

Expectations and Uncertainty in the Long-Term, Self-Maintenance of Managed Geomorphic Systems

Roger Phillips
(Western University)

Buried Secrets Exposed within Toronto's River Valleys

Rob Amos
(Aquafor Beech)

Freedom Space for Rivers: An Economical Approach to Sustainable Management in a Changing Climate

Joanna Eyquem
(AECOM)

Natural Heritage

TH3B ROOM 1

Urban Forests

Urban forests are the backbone of a community's green infrastructure system. They require the support of healthy soil systems and provide many benefits to communities, including stormwater management, improved air quality, and reduced temperatures. Learn about how urban forest features, including soils, are being managed and protected.

Mississauga's Woodlot Report Card: an Online Map and Database Tool for Woodlot Management

Jamie Ferguson and Sarah Piatt
(City of Mississauga)

Toronto's Ravine Strategy - A Framework for Protecting and Managing Vital Green Infrastructure

Kim Statham
(City of Toronto)

The Case for Improved Soil Management during Urban Construction

Chris Morrison
(StormWaterForestry Company)

Stewardship

TH3C ROOM 19

Agricultural BMPs: It's Not the Science; It's the Sociology

If you don't tailor your message for the audience, even the most incentivized BEST Management Practices won't get implemented. This session explores how to effectively deliver programs specific to the farming community.

A New Approach to Agricultural Extension

Melisa Luymes
(Farm & Food Care Ontario)

Success and Lessons Learned of the GRCA's Rural Water Quality Program

Louise Heyming
(Grand River Conservation Authority)

Improving Farmland Through Written Farmland Agreements

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

Tours

TH3D ROOM 11

Being Green at the Nottawasaga Inn

Join us for a tour of the Nottawasaga Inn to learn about the facility's 4 Green Key rating. The hotel has multiple programs in place that involve management, employees, guests and the public, which have shown substantial and measureable results. Environmental programs on-site focus on water conservation, energy and waste reduction. Hear how heat from refrigeration equipment is harnessed through heat plate exchangers and used to heat the outdoor pool, greatly reducing energy consumption. See how tertiary treated effluent from 1800 homes is recycled at the private sewage treatment plant on-site and used on the golf course, significantly reducing water needed for irrigation. Through its wide-ranging policies and practices, the Nottawasaga Inn has shown national industry leadership and commitment to protecting the environment.

Peter Biffis
(Nottawasaga Inn)

EcoHealth

TH3E ROOM 21

Health and Wellness Through Nature

Join us for a session on how Green Infrastructure can be a benefit to our overall health and wellness, both physical and mental. From early childhood development, to adulthood, active and passive exploration and enjoyment of Green Infrastructure such as parks, hiking trails, conservation areas, schoolyards and even greener neighbourhoods have been shown to improve our overall health.

Mood Walks: Mental Health & Nature

Jasmine Ferreira
(Canadian Mental Health Association)

The SNAP Rx: Maximizing the Benefits of Green Infrastructure at the Neighbourhood Scale

Cathrin Winkelmann
(Toronto and Region Conservation)

Role of Green Infrastructure in Healthy Childhood Development

Karen Dobrucki
(Evergreen and the Toronto District Catholic School Board / Ecoschools)

Stormwater

TH3F ROOM 2

Building Green Infrastructure to Beat Climate Change

Increasing vulnerabilities within existing infrastructure systems and changes to in-stream water quality are among the impacts of climate changes which have already occurred. This session will explore how real-time water quality monitoring being carried out by CVC is being used to assess these impacts, along with guidance on integrated water management and the tools needed to quantify the benefits of different management options in the face of a changing climate.

Using Continuous Monitoring Technologies as Surrogates to Identify Watershed Vulnerabilities

Lorna Murison
(Credit Valley Conservation)

One Water Vulnerability Approach to Support Green Infrastructure Alternatives, and Making the Business Case for Green Infrastructure Investment - Municipal Decision Tool

Alex Lenarduzzi
(Credit Valley Conservation)

Tools Quantifying the Benefits and Life Cycle Costs of Green Infrastructure

Sakshi Saini
(Credit Valley Conservation)