



ontario association for
impact assessment
annual conference



OIAA 2013

23-24 OCT 2013 TORONTO

IMPACT
ASSESSMENT:
STRONG SCIENCE,
WISE DECISIONS,
HEALTHY ECOSYSTEMS

WELCOME

THIS YEAR'S CONFERENCE IMPACT ASSESSMENT: STRONG SCIENCE, WISE DECISIONS, HEALTHY ECOSYSTEMS IS FOCUSED ON THE ROLE OF SCIENCE IN ENVIRONMENTAL ASSESSMENT. THROUGH DEBATE, PANEL PRESENTATIONS AND CASE STUDIES FROM A DIVERSE AND EXPERIENCED GROUP OF EXPERTS IN THE FIELD OF SCIENCE AND ENVIRONMENTAL ASSESSMENT, THE CONFERENCE WILL EXPLORE THE RELATIONSHIPS BETWEEN STRONG SCIENTIFIC RESEARCH AND ANALYSIS, ENVIRONMENTAL ASSESSMENT DECISION-MAKING AND THE HEALTH OF THE ENVIRONMENT. JOIN US FOR SPIRITED DISCUSSION AND AN OPPORTUNITY TO NETWORK WITH PRACTITIONERS IN THE IMPACT ASSESSMENT FIELD AS WE EXPLORE THIS VERY TIMELY AND RELEVANT THEME.

OAIA 2013

23-24 OCT 2013 TORONTO
ONTARIO SCIENCE CENTRE

IMPACT ASSESSMENT: STRONG SCIENCE, WISE DECISIONS, HEALTHY ECOSYSTEMS

THE
OAIA2013
CONFERENCE
IS BROUGHT
TO YOU IN
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WITH :



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THE ONTARIO ASSOCIATION FOR IMPACT ASSESSMENT (OAIA) WELCOMES YOU TO ITS ANNUAL CONFERENCE AT THE ONTARIO SCIENCE CENTRE THIS YEAR, ON OCTOBER 23 AND 24, 2013.

THIS YEAR'S CONFERENCE IMPACT ASSESSMENT: STRONG SCIENCE, WISE DECISIONS, HEALTHY ECOSYSTEMS IS FOCUSED ON THE ROLE OF SCIENCE IN ENVIRONMENTAL ASSESSMENT. THROUGH DEBATE, PANEL PRESENTATIONS AND CASE STUDIES FROM A DIVERSE AND EXPERIENCED GROUP OF EXPERTS IN THE FIELD OF SCIENCE AND ENVIRONMENTAL ASSESSMENT, THE CONFERENCE WILL EXPLORE THE RELATIONSHIPS BETWEEN STRONG SCIENTIFIC RESEARCH AND ANALYSIS, ENVIRONMENTAL ASSESSMENT DECISION-MAKING AND THE HEALTH OF THE ENVIRONMENT.

HAVE ENVIRONMENTAL ASSESSMENT AND SCIENCE CONTRIBUTED TO BETTER DECISION-MAKING? WHAT ARE THE CHALLENGES IN BRINGING SCIENCE TO DECISION-MAKING? WHAT IS THE CONTRIBUTION OF ABORIGINAL TRADITIONAL KNOWLEDGE TO IMPACT ASSESSMENT? IS THERE A ROLE FOR CITIZEN SCIENCE IN IMPACT ASSESSMENT? WHAT IS THE ROLE OF SCIENCE IN ADAPTING TO CLIMATE CHANGE AND HOW IT CAN BE APPLIED IN ENVIRONMENTAL ASSESSMENT? WHAT IS THE ROLE OF SCIENTIFIC EVIDENCE IN DECISION-MAKING FROM THREE DIFFERENT PERSPECTIVES?

THE ONTARIO ASSOCIATION FOR IMPACT ASSESSMENT IS A FORUM FOR ADVANCING INNOVATION, DEVELOPMENT, AND COMMUNICATION OF BEST PRACTICE IN IMPACT ASSESSMENT THROUGH THE EXCHANGE OF IDEAS AND EXPERIENCES AMONG ITS MEMBERS, AND WITH OTHER ORGANIZATIONS WITH COMPATIBLE INTERESTS. THE OAIA PROMOTES DEVELOPMENT OF LOCAL, PROVINCIAL, NATIONAL, AND GLOBAL CAPACITY FOR THE APPLICATION OF IMPACT ASSESSMENT IN WHICH SOUND SCIENCE AND FULL PUBLIC PARTICIPATION PROVIDE A FOUNDATION FOR EQUITABLE AND SUSTAINABLE DEVELOPMENT.

OAIA IS AN AFFILIATE OF THE INTERNATIONAL ASSOCIATION FOR IMPACT ASSESSMENT, AND ITS GOALS AND OBJECTIVES ARE CONSISTENT WITH THOSE OF THAT ORGANIZATION. OAIA IS AN ASSOCIATION OF PROFESSIONALS WORKING IN THE ENVIRONMENTAL INDUSTRY IN ONTARIO WHO MAKE IMPORTANT CONTRIBUTIONS TO THE QUALITY OF EA PRACTICE IN ONTARIO.

FOR MORE INFORMATION ON OAIA AND MEMBERSHIP, VISIT WWW.OAIA.ON.CA

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OAIA

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Speakers and Moderators

ROBERT

Baldwin

Rob Baldwin is the Director, Planning and Development Services and has been with the Lake Simcoe Region Conservation Authority for 12 years. He is responsible for the delivery of a proactive program to ensure a sustainable Lake Simcoe basin with a client focused approach. Rob has focused on applying innovative approaches related to watershed management in several areas across North America.

STUART

Bailey

Dr. Stuart Bailey is a Principal at AMEC Environment and Infrastructure. With specific expertise in the areas of toxicology and risk assessment, Dr. Bailey leads AMEC's risk assessment practice in Ontario and serves as the Discipline Head for the Environmental Site Assessment and Remediation Practice in Ontario. Notable projects include a large scale vapour intrusion project involving some 650 homes affected by the industrial degreaser, trichloroethylene (TCE). Dr. Bailey was the AMEC project sponsor providing a full range of risk assessment and risk communication activities. Long term clients include: General Motors of Canada, Toyota Motor Manufacturing, Honda, Daimler-Chrysler and the Ontario Ministry of the Environment.

DERRICK

Beach

Derrick has worked in the field of water resources engineering for over 21 years. He has worked as an Engineer with Fisheries and Oceans Canada and Environment Canada for 15 years where he has been involved with Environmental Impact Assessment on a wide range of projects across Ontario. Prior to working with the Federal Government he worked in private consulting. Derrick is currently with Environment Canada's Boundary Water Issues Unit which supports the International Joint Commission efforts in protecting shared water between Canada and United States. This includes monitoring and assessment of water levels and flow throughout the Great Lakes basin to ensure compliance with water sharing treaties between Canada and United States. He is currently working on a number of projects in the Lower Great Lakes where he uses his mix of experience in biology and engineering to assess mitigation for impacts from multiple water users on hydro production, navigation, tourism, municipal development and ecosystem function.

FRANÇOIS

Bregha

François Bregha is an experienced analyst, writer, evaluator, trainer, project manager and facilitator who brings 35 years' experience in government, environmental groups and consulting to the development of environmental policy. Since the late 1980s, he has specialised in the analysis and design of tools and approaches that integrate environmental and economic considerations in public policy.

In recent years, François has led major strategic reviews and program evaluations (e.g., evaluation of strategic environmental assessment (SEA) practice across the federal government). He has provided guidance on SEA to several federal Departments and agencies and has served as an external advisor to two audits of SEA processes for the Commissioner of the Environment and Sustainable Development. He has helped several government departments design and implement their sustainable development strategies. François has planned and facilitated numerous internal government or multi-stakeholder workshops on a variety of environmental issues. He has also supported governmental and non-governmental organizations with strategic planning.

PHIL

Brennan

Phil Brennan retired from the Ontario Public Service in June 2013. In the latter part of his career Phil provided leadership as senior manager in MOE in service integration for the approvals program, the environmental assessment program, the Lake Simcoe Project and the program support program. For a number of years Phil also worked with the Ministry of Natural Resources in various capacities as a forester and supervisor in Northeastern and Southern Ontario. Phil is a past president of the OAIA.

HEATHER

Brewer

Heather Brewer is a wastewater treatment process specialist with more than 20 years of experience in the process design, evaluation and optimization of municipal and industrial wastewater treatment facilities in Ontario and internationally. She has an in-depth understanding of wastewater treatment plant processes and she has executed the treatment process planning requirements of numerous projects to expand or upgrade existing treatment facilities under the Municipal Engineer's Association Municipal Class EA. In addition, she also provides process design expertise for the subsequent detailed design and execution of planned projects, providing a comprehensive technical perspective to the project life cycle from inception to operational facility. As a Professional Engineer registered in Ontario, Ms. Brewer actively participates in industry organizations with numerous publications in the wastewater treatment practice area. Ms. Brewer is a Senior Wastewater Engineer with Conestoga-Rovers & Associates

CAROLINE Burgess

Caroline Burgess is a Senior Consultant with AMEC Environment & Infrastructure. She is based in their Ottawa office and leads AMEC's Human Environment Group in Ontario. She has been involved in the planning and implementation of public participation programs that support resource extraction, watershed, energy, transportation and land use planning projects in Canada for over 17 years. Her primary areas of expertise are: Aboriginal and stakeholder participation strategies and their implementation; and, environmental assessment (socio-economics, land and resource use, Aboriginal traditional land use). Caroline has considerable experience managing and conducting socio-economic, resource use and traditional land use environmental assessments for resource development projects in the mining, energy, oil and gas sectors. Caroline is a full member of the Canadian Institute of Planners, the International Association for Public Participation (IAP2), and the Prospectors and Developers Association of Canada.

ADAM Chamberlain

Adam Chamberlain is a partner with the law firm of Borden Ladner Gervais LLP in Toronto. Adam is a member of the firm's Environmental, Energy and Aboriginal practices and Leader of the Toronto Aboriginal and National Team North practices.

Adam's law practice includes issues ranging from renewable energy approval processes to related appeals and judicial reviews as well as Aboriginal consultation required for such project development. He acts as Environmental Assessment counsel on an array of large infrastructure projects in the energy, mining, waste and wastewater sectors. Adam's role as an advisor to projects requiring EAs is varied and includes advice with respect to areas ranging from aboriginal consultation to EA implications of technical project details.

ADRIAN W. Coombs

Adrian W. Coombs spent 12 years with CH2M Hill (formerly Gore & Storrie) mapping, measuring and modelling flows in large municipal trunk sewers with the goal of predicting available capacity for growth and requirements for additional infrastructure.

During the current 11 years with York Region, Adrian has managed several large capital infrastructure projects including:

- The PD6 Stouffville reservoir,
- Georgina feeder main (water) and sewage pumping station,
- Aurora/Newmarket Water Supply, and
- 19th Avenue Interceptor constructed with tunnel boring machines - some of the route under challenging artesian water conditions.

Her current Upper York Sewage Solutions project, still in the Individual Environmental Assessment stage, will set the bar for wastewater treatment – a creative application of proven technologies to benefit the environment and protect Lake Simcoe.

IAN Dobrindt

Ian Dobrindt has over 23 years of planning, environmental assessment, and approvals experience working on behalf of Municipalities, Provincial Ministries, Federal Departments, and the private sector. These projects are often of a large complex nature having controversial issues and political sensitivities that require strategic management for project success. Recent examples of such projects include the Southeast Collector Trunk Sewer EA (also known as the "Big Pipe") on behalf of York and Durham Regions in Town of Markham and City of Pickering (approved and under construction), the 407 East Completion EA for the Ministry of Transportation in Durham Region (approved and under construction), and the Upper York Sewage Solutions EA for York Region in the Lake Simcoe watershed (EA nearing completion).

In addition to leading Individual EAs, Ian has directed over 150 projects of various types under most of the Class EA Parent documents like the Municipal Engineers Association's Municipal Class EA, Ministry of Transportation's Class EA for Provincial Transportation Facilities, Ministry of Infrastructure's Public Work Class EA, etc. He is also very familiar with the Class EA Master Planning and integration provisions and their application to certain projects to secure approvals in a more streamlined and cost effective manner.

SCOTT Findlay

Dr. Scott Findlay is Associate Professor in the Department of Biology at the University of Ottawa and a Research Scientist at the Center for Cancer Therapeutics at the Ottawa Hospital Research Institute. He received his Ph.D. from the Department of Zoology, University of Toronto, where he worked on evolutionary game theory. His main research interests concern the quantification of risks posed to ecosystem structure and function by human activities, the notion of scientific weight of evidence in administrative decision-making and science-informed policy, integration of traditional and western scientific knowledge in aboriginal community health, and the role of Darwinian evolution in cancer progression and cancer therapy.

From 2003-2009, he was the Director of the Institute of the Environment at the University of Ottawa, and in July 2003 he was awarded the University of Ottawa Prize for Excellence in Teaching. In April 2005, he was appointed to the Science Advisory Board of the International Joint Commission, and in 2008 to the Challenge Advisory Panel to advise on the federal government's Chemical Management Plan. In September 2009, he was appointed to the Expert Advisory Panel to the Commissioner of Environment and Sustainable Development. In 2011, he was commissioned by the National Judicial Institute of Canada to produce a manual for Canada's judiciary and litigators on the interpretation of scientific evidence in the courtroom. In May 2012, he was awarded a University Chair in teaching from the University of Ottawa.

HEATHER Garbutt

Heather Garbutt is a Senior Environmental Planner with the Ministry of Transportation with an undergraduate degree in Fisheries Biology from the University of Guelph and graduate diploma in Business Administration from Simon Fraser University. Heather's work with the MTO is primarily related to the carrying out environmental assessment for highway improvements and it is through this that she has been involved in consultation with First Nations and most recently in the application of Traditional Use Studies towards the completion of environmental assessments under the Canadian Environmental Assessment Act 2012.

ERIC Gillespie

Eric Gillespie practices civil litigation and administrative law with an emphasis on environmental issues. He graduated with Distinction from the University of Western Ontario Law School in 1994. He articulated in part with the Canadian Environmental Law Association. Since then he has appeared before all levels of Ontario courts and a wide variety of administrative tribunals including the Environmental Review Tribunal, the Ontario Municipal Board and at the Walkerton Water Inquiry. Since 2009, he has been the principal of Eric K. Gillespie Professional Corporation, a downtown Toronto litigation boutique firm whose clients include corporations, municipalities, developers as well as NGOs, ratepayer and community organizations across Ontario and in Quebec, New Brunswick, Nova Scotia and Newfoundland.

The firm is best known for its work on Pearson now Smith v. Inco, the largest certified environmental class action in Canada to date. His firm also acts for a number of individuals, community based organizations and municipalities involved in green energy and wind. The firm has or currently represents clients in more than 50 different challenges involving wind projects across Ontario including ERT appeals, judicial review applications and civil claims

STEPHEN Hazell

Stephen Hazell is senior counsel with Ecovision Law and part-time professor at the University of Ottawa law school. He has held senior management positions in four national environmental organizations, a federal government agency, and a leading Ottawa-based consulting firm.

Stephen has participated as counsel or participant in numerous panel reviews. He also initiated the precedent-setting law suits concerning the Rafferty-Alameda dams in southern Saskatchewan. In the mid-1990s, Stephen led the team at the Canadian Environmental Assessment Agency that developed the regulations for the implementation of the Canadian Environmental Assessment Act. Stephen has written numerous scholarly articles, as well as Canada v. The Environment, his 1999 book on federal environmental assessment law and policy.

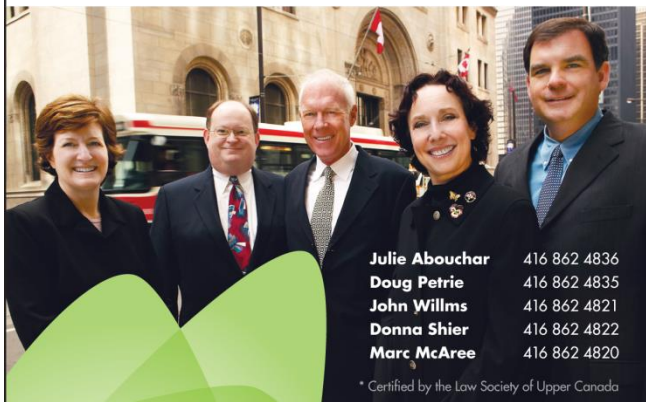
ARIANE Heisey

Ariane Heisey has been a leader in environmental assessment since 1989. She taught planning at Ryerson University from 1982 to 1999 while running an environmental planning practice specializing in social impact assessment and land use planning.

In 1999, Ariane went to the Ontario Ministry of the Environment's Environmental Assessment and Approvals Branch, where she led the implementation of 23 EA Improvements initiatives which fell out of the 2004 EA Advisory Panel. Ariane also led the coordination of EAs and permitting for Ontario's first diamond mine, DeBeers Victor Diamond Project. In 2011, Ariane became a Senior Policy Advisor at the Ring of Fire Secretariat of the Ministry of Northern Development and Mines, where she is responsible for leading the development of policy and a program to guide the coordination of EAs, land use planning and permitting for new mines in the Ring of Fire located in the far north of the province. Ariane holds full membership in the Canadian Institute of Planners and the Prospectors and Developers Association of Canada and is a Registered Professional Planner in Ontario.

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DICK Hibma

Dick Hibma is the Chair of Conservation Ontario, the association of the 36 Conservation Authorities in Ontario, first elected to that position in 2006. He has been chair of the Grey Sauble Conservation Authority since January of 1998. He has been a municipal councillor in the City of Owen Sound for 9 years from 1994 through 2003.

As a result of his role as Chair of Conservation Ontario he was nominated, and subsequently appointed to the IJC's International Upper Great Lakes Study (IUGLS) Public Interest Advisory Group (PIAG) serving from July of 2007 to March of 2012. He was subsequently appointed by the IJC to the Adaptive Management Task Team shortly thereafter to follow up on a key recommendation coming out of the IUGLS final report. His daytime career is in the nuclear energy sector as a program coordinator at Bruce Power.

NEIL Hutchinson

Dr. Neil Hutchinson is President of Hutchinson Environmental Sciences Ltd., a firm of 10 aquatic scientists working across the country since 2009 with offices in Bracebridge and Kitchener ON, and Edmonton AB. Before that, he worked for 11 years as a consultant with Gartner Lee Ltd. and 13 years as an aquatic scientist with the Ontario Ministry of the Environment. He has contributed to Class and Individual EAs in Ontario, Screenings, Comprehensive Studies and Joint Review Panels in the federal process as a technical expert in water quality and in linking outcomes of the EA process to the regulatory process through monitoring and formalized adaptive management. He feels that EA practitioners in Southern Canada could learn a lot from the EA processes in the Northwest Territories and Nunavut.

As a scientist, he sees the need for clear and direct presentation of the necessary information in the EA process and the need to ensure that all voices are heard, and that all voices bring clear presentation, real questions and opinions that are substantiated by information to the process.

GABRIELLA Kalapos

Gabriella Kalapos is Executive Director of the Clean Air Partnership, in Toronto. Over the last 20 years she has been working to motivate and support local government action on clean air and climate change through her work at the Toronto Environmental Alliance, at the Cities for Climate Protection campaign of Local Governments for Sustainability (ICLEI) and, currently, at the Clean Air Partnership.

Clean Air Partnership is a charitable environmental organization whose mission is to help local governments and their partners create sustainable and resilient communities. Gabriella's focus has been on encouraging, supporting and monitoring the implementation of clean air and climate change initiatives, the building of collaborative partnerships between the community and all levels of government, and moving those initiatives from the pilot project stage to business as usual.

LOUISE Knox

Louise Knox's most recent impact assessment work was as Regional Director for Ontario with the Canadian Environmental Assessment Agency, between 1999 and 2012. Prior to that time, she was Environment Canada's co-ordinator of the Hamilton Harbour Remedial Action Plan, where she led a multi-disciplinary team in the drafting a comprehensive study report on a sediment remediation project. Her first role with Environment Canada was as a coordinator of public participation.

ANTHONY Laforge

Anthony Laforge is an Ojibway from Nipissing First Nation, who resides and works in Magnetawan First Nation. He has a Diploma in First Nation Lands Management and has 23 years experience in First Nation governance. Anthony has developed first nation land codes through the Framework Agreement on First Nation Land Management Act, which allows first nations to determine and develop their own land laws by being exempt from 34 Sections of the Indian Act. Anthony is a very passionate lands manager who believes that the "authority having jurisdiction" on first nation lands must be respected and allows first nations to determine their own future with regards to development, conservation and protection.

RICHARD Lindgren

Richard Lindgren is a lawyer with the Canadian Environmental Law Association (www.cela.ca). Since joining CELA in 1986, he has represented individuals and public interest groups before tribunals and in the courts, including the Supreme Court of Canada. On behalf of CELA clients, he has been involved in numerous projects, activities or undertakings subject to federal and/or provincial environmental assessment requirements. He served as counsel for Walkerton residents at the Walkerton Inquiry, and has been a member of the Environment Minister's Advisory Panel on Environmental Assessment; the Environment Minister's Task Force on the Environmental Bill of Rights; and the Attorney General's Advisory Committee on Class Action Reform. He is an editor of the Canadian Environmental Law Reports, and has taught environmental law at Queen's University Faculty of Law and Trent University.

TIME	SESSION	SPEAKERS
8:00 – 9:00 am	Registration	
9:00 – 9:15 am	Welcome, Conference Logistics and Introductions <ul style="list-style-type: none"> • Introduction to the Conference Theme • Overview of Specific Topics • Introduction to the two Panel Debates and their purposes. 	<ul style="list-style-type: none"> • Adam Chamberlain, <i>President, OAIA</i>
9:15 – 9:45 am	Session 1 - Opening Panel Debate – The Contribution of Impact Assessment and Science to Decision-Making Introduction to the Debaters and Topic: <ul style="list-style-type: none"> • Perspective 1: The practice of Environmental Impact Assessment does not add value to decision-making. It does not advance our scientific knowledge about the environment and has failed to present credible scientific evidence to decision-makers. It has not lived up to original expectations. • Perspective 2: The practice of Environmental Impact Assessment has and continues to add value to decision-making by providing science based evidence upon which rational decisions can be made. Impact assessment, and the process of environmental assessment has served to avoid significant environmental effects and has advanced policy and planning decisions that have resulted in positive environmental outcomes for Ontarians. 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> • Dr. Neil Hutchinson, President and Principal Aquatic Scientist, Hutchison Environmental Science Limited (Perspective 1) • Richard Lindgren, Environmental Lawyer, Canadian Environmental Law Association (Perspective 2) <p><i>Moderator</i></p> <ul style="list-style-type: none"> • François Bregha, Environmental Consultant and OAIA Board member
9:45 – 11:00 am	Session 2 - Panel Presentation – What are the Science-based Challenges in Impact Assessment? This session will explore the challenges of collecting and analyzing scientific information as part of an impact assessment. <ul style="list-style-type: none"> • Projects in areas of the Province where we have not collected much information in the past (the North) • Uncertainty - When is good scientific data "good enough" • What are the qualities of a good environmental baseline study. • New technologies for which we do not have sufficient information about environmental effects (e.g., wind)? • Adapting environmental models to fit local conditions. 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> • Paul Sampson, Senior Science Advisor, Far North Branch, Ontario Ministry of Natural Resources • Stuart Bailey, Principal Risk Assessor, AMEC <p><i>Moderator</i></p> <ul style="list-style-type: none"> • Steven Rowe, MCIP, RPP, Environmental Planner and OAIA Board member
11:00 – 11:20 am	Refreshments and Networking	
11:20 – 12:30 pm	Session 3 - Highlighted Case Study – The Lake Simcoe Protection Plan The focus of this session is on the review of the history, status and achievements of the Lake Simcoe Protection Plan with a focus on the following: <ul style="list-style-type: none"> • How important was/is good scientific data/knowledge to the design and implementation of the Lake Simcoe Protection Plan? • What kind of impact assessment was undertaken as part of this initiative? • What kind of scientific information/knowledge was available? How useful was it? • What were some of the major information/knowledge gaps? • What advancements in our knowledge of the environment resulted from this initiative? • Was there any role for community knowledge or citizen science in this initiative? • Was the impact assessment work used/valued by decision-makers? • What are the expected environmental outcomes? Have they been demonstrated? If not, how will they be demonstrated? 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> • Dr. Jennifer Winter, Member, Lake Simcoe Science Committee • Mike Walters, General Manager, Watershed Management Lake Simcoe Conservation Authority • Claire Malcolmson, Program Manager, Environmental Defence Canada <p><i>Moderator</i></p> <ul style="list-style-type: none"> • Phil Brennan, Retired Senior Manager, Ontario Public Service

TIME	SESSION	SPEAKERS
12:30 – 2:00 pm	Lunch with Keynote Speaker Science and the Natural Environment under the Renewable Energy Approvals Process <i>Speaker: Eric Gillespie, Lawyer, Eric K. Gillespie Law Corporation</i>	
2:00 – 3:30 pm	Session 4 - Case Study Session - "The Contributions of Aboriginal Traditional Knowledge to Impact Assessment" A case study of a recent Traditional Knowledge/Traditional Land-Use (TK/TLU) study conducted for and with Magnetawan First Nation, and the contributions of the study to the impact assessment of the Ontario Ministry of Transportation's Highway 69 Four-Laning project. We will provide an overview of the study and the practice, discuss the study results, and provide multiple perspectives from the community, proponent, and lead consulting engineer on the value and lessons learned from the process. We will emphasize both the tangible and intangible benefits and contributions of the study process, and will focus on the following themes: <ul style="list-style-type: none"> The quality and nature of the data gathered during the study process The nature of the impact assessment undertaken How the information was presented to and used by decision-makers The contributions of the study to positive environmental outcomes 	<i>Speakers</i> <ul style="list-style-type: none"> Scott Mackay, MCIP, RPP, Managing Partner, Shared Value Solutions Ltd. (Lead presenter) Anthony Laforge, Director of Lands & Resources, Magnetawan First Nation (Community panel member) Heather Garbutt, Senior Environmental Planner, Ontario Ministry of Transportation Northeastern Region Brian Ruck, Manager of Value Engineering, AECOM <i>Moderator</i> <ul style="list-style-type: none"> Tomasz Wlodarczyk Principal Consultant, SLR Consulting
3:30 – 3:45 pm	Refreshments and Networking	
3:45 – 5:00 pm	Session 5 - Panel Presentation – The Role of Citizen Science in Impact Assessment In this session, the role of "Citizen Science" will be explored from three perspectives. The focus is on: <ul style="list-style-type: none"> What is "Citizen Science"? How does it develop? Examples? How has citizen science and community knowledge been used in impact assessment How valid is it and how is it treated by decision-makers? How can one better connect Citizen Science with the practice of impact assessment? Improving our capacity to use citizen science. 	<i>Speakers</i> <ul style="list-style-type: none"> Lynda Lukasik, Executive Director, Environment Hamilton (academic perspective) Katie Stiel, Project Manager, Environment Hamilton (local group perspective) Alex MacDonald, Manager, Protected Area Program, Nature Canada (national group perspective) <i>Moderator</i> <ul style="list-style-type: none"> Stephen Hazell, Senior Counsel, Ecovision Law and OALA Board member
5:00	Day 1: Announcements and Introduction to Day 2	<ul style="list-style-type: none"> Adam Chamberlain, <i>President, OALA</i>
5:00 - onwards	Network at Granite Brewery Pub 245 Eglinton Avenue East	

TIME	SESSION	SPEAKERS
8:00 – 9:00 am	OAIA AGM with Breakfast and Registration – all welcome to participate	
9:00 am	Announcements	OAIA Board Member
9:10 – 10:30 am	<p>Session 6 - Panel Presentation – The Climate Change Imperative and the Need for Adaptation</p> <p>The evidence of climate change is beginning to be seen around us. This session will investigate how climate change will affect our infrastructure, how we need to adapt and what the role of science is in impact assessment in being able to adapt.</p> <ul style="list-style-type: none"> How will climate change affect Canada's/Ontario's infrastructure deficit and our investments in community infrastructure, emergency planning and resource management. What is adaptation in the context of climate change? Who needs to adapt and who are the decision-makers? How does impact assessment need to be done such that we are climate ready? <ul style="list-style-type: none"> What is the role of science? Who is doing what? How well are we doing? Any evidence? What resources are out there to aid/improve impact assessment for adaptation 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> • Angus Ross, Chairman, L & A Concepts • Gabriella Kalapos, Executive Director, Clean Air Partnership • Caroline Rodgers, Project Manager, Ontario Centre for Climate Impacts and Adaptive Resources <p><i>Moderator</i></p> <ul style="list-style-type: none"> • Simon Miles, Public Policy Consultant and OAIA Board member
10:30 – 10:50 am	Refreshments and Networking	
10:50 – 12:15 pm	<p>Session 7 - Panel presentation: Science in Support of Adaptive Management</p> <p>Through the lens of water levels in the Great Lakes, this panel will explore how science supports adaptive management.</p> <ul style="list-style-type: none"> Overview of the science permitting an understanding of historical water levels The perspective of a Georgian Bay cottage owner, and thoughts on adaptive management. How the science is used by municipalities and conservation authorities to support optimal adaptive response. 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> • Derrick Beach, Water Resources Engineer, Environment Canada: Boundary Water Issues Unit • Adam Chamberlain, Partner, Borden, Ladner, Gervais LLP (cottage owner perspective) • Dick Hibma, Chair, Conservation Ontario <p><i>Moderator</i></p> <ul style="list-style-type: none"> • Louise Knox, EA Practitioner - retired
12:15 – 1:15 pm	Lunch and Networking	

TIME	SESSION	SPEAKERS
1:15 – 2:30 pm	<p>Session 8 - Highlighted Case Study – Upper York Sewage Solutions</p> <p>This session focuses on the presentation of a case study of the recent use of scientific data in carrying out the impact assessment stage of the Upper York Sewage Solutions Environmental Assessment (UYSS EA), which was conducted in close collaboration with regulatory agencies (Ministry of the Environment, Ministry of Natural Resources, and the Lake Simcoe Region Conservation Authority) on behalf of the proponent, the Regional Municipality of York (York Region). The session will include an overview of the UYSS EA, presenting the Minister of the Environment's (Minister's) direction to York Region for the EA, how that direction was acted upon in adapting the project to the Undertaking outcome, how scientific data played a critical role in that outcome and how it continued to play an ever increasing role in the impact assessment stage of the UYSS EA in determining potential adverse environmental effects, developing project specific mitigation/compensation measures, and obtaining regulatory support for the Undertaking. Specifically, we will focus on the following themes:</p> <ul style="list-style-type: none"> The integration/utilization of the concept of adaptive management in design of the Undertaking The importance of good scientific data/knowledge to the design and impact assessment of the Undertaking The kind of impact assessment carried out for the Undertaking The kind of scientific information/knowledge initially available to the Project Team, including its usefulness, what were the major information/knowledge gaps, and what was done to fill in those gaps in order to address Impact Assessment stage of the UYSS EA. The advancements in our knowledge of the environment resulting from the UYSS EA The expected environmental outcomes including how they have been or will be demonstrated 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> Ian Dobrindt, EA and Approvals Practice Lead, Conestoga-Rovers & Associates, (Lead presenter) Heather Brewer, Senior Wastewater Engineer, Conestoga-Rovers & Associates Adrian Coombs, Senior Project Manager, York Region Rob Baldwin, Director, Planning and Development Services, Lake Simcoe Region Conservation Authority <p><i>Moderator</i></p> <ul style="list-style-type: none"> Ariane Heisey, MES MCIP RPP, Team Lead, Ring of Fire Secretariat, Ministry of Northern Development and Mines and OIAA Board member
2:30 – 2:45 pm	Coffee Break	
2:45 – 4:15 pm	<p>Session 9 - Panel and Plenary Debate – The Role of Scientific Evidence in Decision-making – Three Perspectives</p> <p>We end our conference with a spirited debate on three perspectives of the role of scientific evidence in decision-making. Following an introduction to the Panel Topic and Presenters, each speaker will be given 15 minutes to make their case, followed by 10 minutes to challenge each other's position. Conference participants will have the final say with 1 hour to ask questions of the panel. The three perspectives are:</p> <ul style="list-style-type: none"> The Use/Treatment of Scientific Evidence in Decision-making from a Science Perspective The Use/Treatment of Scientific Evidence in Decision-making from Scientist Advising legal Counsel Perspective The Use/Treatment of Scientific Evidence in Decision-making from an Academic/ENGO Perspective 	<p><i>Speakers</i></p> <ul style="list-style-type: none"> Justina Ray, Executive Director/Senior scientist Wildlife Conservation Society Canada(science) Scott Findlay, Associate Professor, Department of Biology, University of Ottawa (scientist advising legal) Mark Winfield Associate Professor, Faculty of Environmental Studies, York University, (academic/ENGO) <p><i>Moderator</i></p> <ul style="list-style-type: none"> Adam Chamberlain, Partner, Borden, Ladner, Gervais LLP and <i>President</i>, OIAA
4:25 pm	Conference Wrap-Up	<ul style="list-style-type: none"> New OIAA President

LYNDA

Lukasik

Dr. Lynda Lukasik is a co-founder and current Executive Director of Environment Hamilton, a not-for-profit environmental organization established in 2001 with a mandate to provide Hamiltonians with the knowledge and skills to protect and enhance the environment around them. She holds a PhD in Planning from the University of Waterloo.

Lynda has extensive experience with the development and implementation of 'hotspot' volunteer environmental monitoring initiatives in the Hamilton area. Her efforts have included working with Dr. George Sorger from McMaster University's Biology Department to implement a student/community volunteer water quality monitoring effort, working with other concerned community members to research, investigate and file evidence for charges for federal Fisheries Act violations along a waterway in east Hamilton, and developing and implementing Hamilton's first 'Stack Watch' industrial air emissions monitoring program.

ALEX

MacDonald

Alex MacDonald is the Manager of Nature Canada's national protected areas program. Alex is leading a new Nature Canada initiative called Naturehood, which is focused on urban Important Bird Areas (IBAs) and is being piloted at the National Capital Region's Lac Deschênes – Ottawa River IBA. That initiative is grounded in citizen science and partnerships with local naturalist clubs, and seeks to connect urban Canadians to nature where they live.

Prior to joining Nature Canada, Alex graduated with an M.Sc in biology and spent 5 years in the ENGO and government sectors working for groups including CPAWS Nova Scotia and departments including Department of National Defence, where he was responsible for overseeing ESAs and remediation projects for contaminated sites (certified in ESA I, II & III). Alex also served on the Board of Nature Nova Scotia and the Nova Scotia Environmental Network (nsen.ca) and also served as a National Councillor for the Canadian Environmental Network.

SCOTT

MacKay

Scott MacKay is a senior consultant and the CEO and CFO of Shared Value Solutions Ltd.- a human environment consulting firm located in Guelph, Ontario, Canada. He has established a strong environmental planning and community engagement practice serving Aboriginal communities and progressive private sector clients in the opportunity-space created by the Duty to Consult and environmental assessments. Scott is a Registered Professional Planner, and has 15 years of diverse "in the trenches" experience working for communities, federal and provincial government agencies, industry, and not-for-profit organizations. Along the way, Scott has learned the value of fostering constructive dialogue amongst parties with diverse interests, and working to create shared value from development and land-use. He holds an M.Sc. in Rural Planning and Development from the University of Guelph.

CLAIRE

Malcolmson

Claire Malcolmson is on maternity leave from her position of Manager of Water Programs at Environmental Defence. She led Campaign Lake Simcoe at Environmental Defence while The Lake Simcoe Protection Act was passed. Her provincial appointments include the Lake Simcoe Stakeholder Advisory Committee, the Lake Simcoe Coordinating Committee, and the Oak Ridges Moraine Foundation Board. She is also the President of the Rescue Lake Simcoe Coalition. Claire has worked in the environmental community for 12 years, in education, outreach, and policy. In 2011 she completed a Masters in Planning and Integrated Watershed Management at York University.



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SIMON Miles

Simon Miles is a consultant on public policy and international development, focusing on institutional analysis and capacity development, policy making, planning, development, and administration. He has worked in over 50 countries providing advice on environmental, natural resource, socio-economic, and technological policies and programmes, with an emphasis on their integration.

Prior to becoming a consultant, Simon founded and served as Executive Director of INTERMET, a world-wide NGO which utilized multi-interest team approaches for moving from research to action in resolving problems confronting large urban regions.

When President of the Conservation Council of Ontario, he led its strategic EA of the Province of Ontario's conservation and development policies and programmes. He has worked to improve institutional capacity for environmental assessment in a number of developing countries; has conducted SEAs of international development programmes; and, has developed environmental guides and management tools for international organizations as the World Bank and the Canadian International Development Agency.

JUSTINA Ray

Dr. Justina Ray is a wildlife biologist and Executive Director of Wildlife Conservation Society Canada. She has been appointed to numerous species-at-risk related government advisory panels, including Ontario Wolverine Recovery Team, Ontario Provincial Caribou Technical Committee, the federal Boreal Caribou Science Advisory Group for the Critical Habitat Science Review, Committee on the Status of Species at Risk in Ontario, the Endangered Species Act Review Advisory Panel for Ontario, and is the co-chair of the Terrestrial Mammal Subcommittee of The Committee on the Status of Endangered Wildlife in Canada (COSEWIC). She has been editor or author of 3 books and is Adjunct Professor at the University of Toronto (Faculty of Forestry) and Trent University (Biology Department).

CAROLINE Rodgers

Caroline Rodgers is a Project Manager with the Ontario Centre for Climate Impacts and Adaptation Resources, housed at MIRARCO in Sudbury, Ontario. She has been working in the field of climate change impacts and adaptation for five years. During this time, Caroline has worked with a number of different organizations and several internationally acclaimed scientists to develop and deliver research and resources specializing in climate change adaptation, disaster risk reduction and climate resilience. Prior to joining OCCIAR, Caroline led and completed the First Phase of the Critical Infrastructure Resilience Study at the Environment and Energy Office of the City of Toronto. This work represents the first time that a large North American municipality has examined their infrastructural interdependency from an operational perspective.

Caroline has authored and contributed to a number of reports and articles that explore extreme weather and security; infrastructure vulnerability and resilience; and disaster risk reduction. Caroline was a contributing author for an Intergovernmental Panel on Climate Change (IPCC) special report on Managing the Risks of Extreme Events and Disasters.

ANGUS H. Ross

Angus H. Ross worked for 36 years in the reinsurance industry, ending as the President of the Canadian operations of SOREMA – then a major French reinsurer. He has been a tireless advocate for the environment for many decades, ranging from climate change, where he was spokesman for the Canadian insurance industry, to pollution and contamination. He has been a member of the Canadian Climate Programme Board, the Natural Hazards Round Table and was an advisor and contributor to the first National Atlas of Canada natural hazards map.

In 1995 he was appointed to the National Round Table on the Environment and the Economy and chaired two task forces on brownfield redevelopment, including the one that created the National Brownfield Redevelopment Strategy for Canada in 2003. He was also a member of task forces on Water and Wastewater Issues, Economic Instruments, Domestic Emissions Trading, and Greening the Budget. He is currently an independent arbitrator and consultant on reinsurance matters and an adviser on environmental issues.

STEVEN Rowe

Steven is Principal of Steven Rowe Environmental Planner, a consulting firm dedicated to improving the fit between projects, communities and nature through resolution of land use and environmental planning issues. Steven's projects include developing environmental assessment (EA) processes and land use policies, peer reviewing EAs and development proposals, and coordinating and facilitating project review by decision-making agencies and specialists.

Project sectors include waste management, energy (including renewable energy), municipal infrastructure, transportation, aggregates, and protected areas. Steven was trained as a land use planner and worked in Malawi and with a British municipality before joining a planning consulting firm in Toronto. While there he was involved in a number of EA processes and hearings for waste management and other plans and projects. In 1997 he established his own planning firm, providing environmental planning services to provincial agencies, municipalities, and non-profit and citizens' groups.

Steven is a member of the Canadian Institute of Planners and a Registered Professional Planner in Ontario, and leads the environmental policy working group of the Ontario Professional Planners Institute. He was a member of the Minister of the Environment's EA Advisory Panel in 2004-5, and is currently on the Lake Simcoe Coordinating Committee which advises the Minister on the implementation of the Lake Simcoe Protection Plan.

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BRIAN Ruck

Brian Ruck is a Professional Engineer with over 31 years of experience including 16 years with Ontario Ministry of Transportation in various progressive positions. For the past 15 years, he has held progressively responsible positions within AECOM and Totten Sims Hubicki (TSH) in senior management roles. He specializes in project management of both preliminary and detail design for roadway and highway projects. He is also a Certified Value Specialist CVS-Life (SAVE International) specializing in Value Engineering and has lead numerous Value Engineering studies throughout Canada and several US states including Florida, Rhode Island, South Carolina, Colorado, and Texas.

PAUL Sampson

Paul Sampson is Senior Science Advisor, Far North Branch, Ministry of Natural Resources. He works with planners, communities, researchers and others to advance science and information in support of land use planning in the Far North. Much of Paul's career has been in science including the Ontario Forest Research Institute in Sault Ste Marie, and leading projects as part of MNR's Inventory, Monitoring and Assessment Section. His background is in forestry, with a graduate degree in geography.

KATIE Steil

Katie Stiel is a Project Manager at Environment Hamilton. Her work focuses on engaging community members in tracking and reporting on local environmental health through projects such as 'Stack Watch' - an industrial air emissions monitoring initiative, and 'Pipe Watch' - a program focused on engaging community in observational monitoring of storm and combined sewer outfall pipes discharging into local creeks. She has also developed outreach and curriculum materials Environment Hamilton's 'Creek Critter' benthic macroinvertebrate monitoring program for tracking local creek health, and a tree lichen monitoring program for tracking local air quality in Hamilton neighbourhoods. Katie worked closely with McMaster Biologist Dr. George Sorger to ensure the scientific rigour of both the Creek Critter and tree lichen monitoring initiatives. Katie is currently completing a Masters in Environmental Education and Communication from Royal Roads University.

MICHAEL Walters

Michael Walters graduated in 1983 with an Honours Degree in Physical Geography from the University of Western Ontario and has co-authored a number of research and journal publications, and a book on watershed monitoring. Throughout his twenty-five year career, Michael has applied his expertise locally and internationally, developing pollution control strategies, planning policy, integrated watershed plans, and subsequently implemented programs to protect and improve ecosystem health. The LSRCA received the prestigious International Thiess Riverprize, the most highly regarded and valuable river management award in the world.

MARK Winfield

Dr. Mark Winfield is an Associate Professor of Environmental Studies at York University. He is also Co-Chair of the Faculty's Sustainable Energy Initiative, and Coordinator of the Joint Master of Environmental Studies/Juris Doctor program offered in conjunction with Osgoode Hall Law School. Prior to joining York University Professor Winfield was Program Director with the Pembina Institute and prior to that Director of Research with the Canadian Institute for Environmental Law and Policy. He has published articles, book chapters and reports on a wide range of environmental and energy law and policy topics, including environmental impact and sustainability assessment. His new book, *Blue-Green Province: The Environment and Political Economy of Ontario* was published by UBC Press in 2012.

JENNIFER Winter

Dr. Jennifer Winter supervises a team at the Ministry of the Environment whose focus includes nutrients, algal communities and associated issues in inland lakes and the Great Lakes, and was the lead research scientist for Lake Simcoe from 2001 to 2012. Her research interests include the influences of human activities on aquatic ecosystems and the modelling of nutrient loading to rivers and lakes. She is currently an adjunct professor at the University of Guelph, Trent University and University of Waterloo. Dr. Winter is a member of the Lake Simcoe Science Committee and previously co-chaired the Lake Simcoe Science Advisory Committee.

TOMASZ Wlodarczyk

Tomasz Wlodarczyk is a Principal Consultant at SLR Consulting Ltd., having 26 years experience in environmental planning, designing and implementing training programs, conducting environmental assessments and stakeholder engagement programs. He is a leading expert regarding cumulative effects assessment methods and application. He has completed cumulative effects assessments for various mining, energy and transportation infrastructure projects subject to the Canadian Environmental Assessment Act. Most recently, he was responsible for the cumulative effects assessment of the Highway 407 East Transportation Corridor project. He has provided expert review of the cumulative effects components of environmental assessments for the Mackenzie Valley Environmental Impact Review Board, the Government of Nunavut and several First Nations. He has designed and delivered training workshops regarding cumulative environmental effects for a Canada-wide program on behalf of the Canadian Environmental Assessment Agency, and for the Ontario Ministry of Transportation, Ontario Power Generation and the Department of Fisheries and Oceans. Currently, Tomasz is completing a cumulative effects study of transportation infrastructure in Ottawa's Greenbelt on behalf of the National Capital Commission and the City of Ottawa.

