

NATIONAL BROWNFIELD SUMMIT:

CHARTING THE FUTURE



ONSITE PROGRAM



8th Annual Conference

Wednesday, June 13, 2018

Oakham House, Ryerson University, Toronto, ON

Program at a Glance

7:30 am **REGISTRATION** Sponsored by:  Stantec

8:00 am **CBN ANNUAL GENERAL MEETING**

8:30 am **Welcome & Introduction**
D. Grant Walsom, President, CBN; XCG Consulting Ltd.

KEYNOTE SPEAKERS

Margie Carlson, Deputy Executive Director, ONPHA
Marlene Coffey, Executive Director, ONPHA

9:00 am **EMERGING TECHNOLOGY**

Speakers: Dr. Barbara A. Zeeb - Royal Military College
Sylvia Mancini - Geosyntec Consultants
Parisa Jourabchi - Golder Associates
Bruce Tunnicliffe - Vertex Environmental

10:00 am **NETWORKING BREAK**

Sponsored by:  ARCADIS  Canadian Environmental Association  CHEMCO  EllisDon  Willms & Shier  Environment Canada

10:15 am **LEGAL UPDATE**

Speaker: John Georgakopoulos - Willms & Shier Environmental Lawyers LLP

10:45 am **CROSS-COUNTRY CHECK-UP**

Sponsored by:  TREAD

Speakers: Krista Barfoot - Jacobs Engineering Group, (Ontario)
Lisa Fairweather - Alberta Environment and Parks
Laurent Pilon - Réseau Environnement, (Quebec)
Kerri Skelly - BC Ministry of Environment and Climate Change Strategy

12:00 pm **NETWORKING LUNCH**

Sponsored by:  JACOBS

1:00 pm **"THE BROWNFIELDS INDUSTRY IN CANADA: STATE OF THE UNION" -
CBN/RYERSON RESEARCH**

Moderator: Grant Walsom - XCG
Speakers: Dr. Chris de Sousa - Ryerson University
Reanne Ridsdale - Ryerson University
Angus Ross - L and A Concepts

2:15 pm **NETWORKING BREAK**

Sponsored by:  ARCADIS  Canadian Environmental Association  CHEMCO  EllisDon  Willms & Shier  Environment Canada

2:45 pm **BREAKOUT DISCUSSION GROUPS**

3:45 pm **CHARTING THE FUTURE - PLENARY DISCUSSION**

Facilitator: Todd Latham - Actual Media

4:30 pm **HUB AWARDS** - Sponsored by:  XCG

5:30 pm **NETWORKING RECEPTION AT JOEY RESTAURANT**

1 Dundas Street W., Toronto, ON
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President's Welcome



Dear Colleagues,

It gives me great pleasure to welcome you, on behalf of the Canadian Brownfields Network (CBN) to the National Brownfield Summit: Charting the Future, our 2018 Conference.

Since the 2003 National Round Table on the Environment and the Economy (NRTEE) report, brownfields have definitely made progress and we felt it was time to revisit that report to see how far we've come, what remains to be done, and what new challenges have evolved. This led us to the idea of a National Brownfield Summit – a first of its kind in Canada, in which we've brought together stakeholders from across the country to chart the future of the brownfield agenda. This will constitute our afternoon program, which we've called the Brownfield Industry in Canada: State of the Union.

Before we get to that, however, we have much more planned for you – opportunities to learn and chances to expand your thinking.

We begin with our keynote speakers, Marlene Coffey and Margie Carlson of the Ontario Non-Profit Housing Association. As you know, Canada is undergoing an affordable housing crisis. It's commonly recognized that social housing and non-profit housing are key parts of the solution, but the question of where to build remains. Marlene and Margie will make the link between this crisis and brownfields as a logical place to begin looking for sites.

When building begins, soil is excavated – some of it is contaminated and is cleaned either in-situ or ex-situ. Handling of these excess soils has recently become a focus for regulators, and in our popular Cross-country Check-up, you'll hear about regulatory changes regarding excess soils in Quebec, Ontario and British Columbia. Quebec's approach, known as Traces Québec, is particularly of interest as some organizations in Ontario are considering adopting it; in this session, you'll learn what it is and how it works. We'll also have an update from Alberta Environment and Parks, who are enacting new regulations for brownfields in general.

Complementing the Check-up, which looks at regulations, we will also be presenting another perennial favourite, the Legal Update. Case law evolves continuously, and recent years have seen broadening interpretations of both legislation and regulation. John Georgakopoulos of Willms & Shier Environmental Lawyers LLP will bring you up to date on the latest developments from the courts.

Today will see the return of our rapid-fire Emerging Technology presentation. This year, we have 4 presentations for you: Natural Source Zone Depletion: State of Practice and Applications for Sustainable Brownfields Redevelopment; Electrokinetically-emplaced Amendments for Enhanced Treatment of Chlorinated Compounds in Low Permeability Source Areas; Quebec In-Situ Brownfield Cleanup: Case Studies using Trap & Treat; and The Role of Phytotechnologies in Remediation of Brownfield Sites. I apologize, but I didn't have the name of the presentation when I drafted Grant's letter. I'm sure you will find at least one of these approaches of interest.

All of this leads us to the centrepiece of the day – the Brownfield Industry in Canada: State of the Union. CBN has undertaken a research survey jointly with Ryerson University to determine how

Continued...

President's Welcome cont'd.

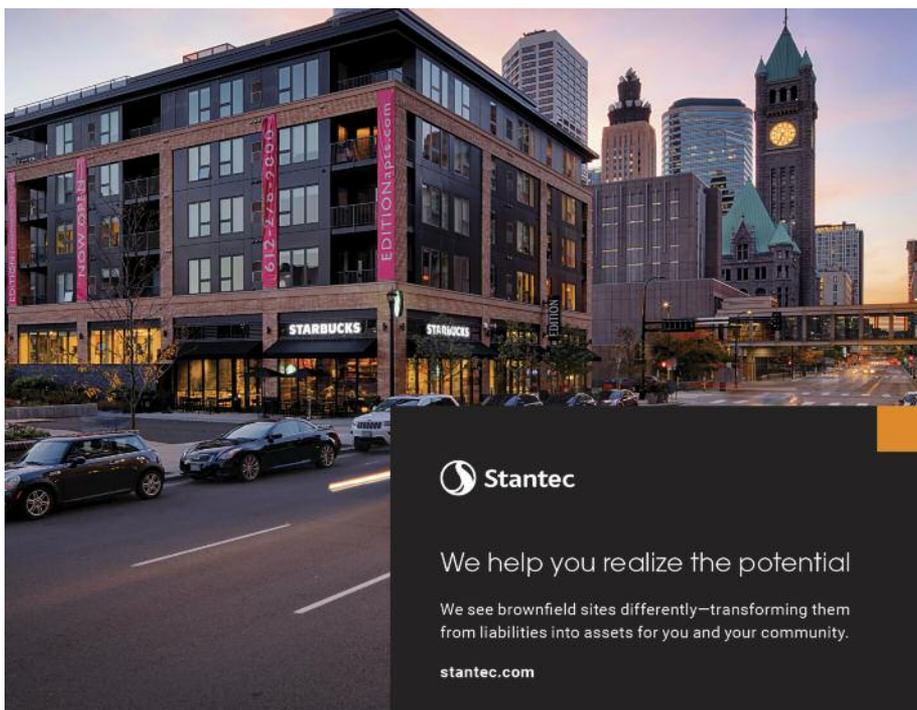
brownfield practitioners view the progress made since the 2003 NRTEE report, and what they identify as work that still must be done. Today, you'll hear about the results of the survey and, in breakout groups, will be able to engage in discussion about what the next steps should be. Then, we'll reconvene and identify recommendations for an action plan to take the brownfield agenda into the future.

We'll end our day with our annual HUB Awards, recognizing individual excellence in brownfields, and what I'm sure will be a much-needed opportunity to relax and chat with other participants at the networking reception.

On behalf of CBN, I'd like to thank our Conference and Award sponsors for their generous financial support – they have made today possible. Deepest appreciation also goes to the hard-working members of the Conference Committee for their dedication in bringing you our program. Finally, thank you for attending today and participating in our discussions; we hope you've found the day informative and, in a positive sense, challenging.



D. Grant Walsom, P.Eng.,
President



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Conference Program

7:30 am

REGISTRATIONSponsored by:  Stantec

8:00 am

CBN ANNUAL GENERAL MEETING

Learn about the programs and initiatives undertaken by the CBN this past year and where the organization is heading in the year to come.

8:30 am

WELCOME AND INTRODUCTION**D. Grant Walsom, President, CBN; XCG Consulting Ltd.****KEYNOTE - "Using Brownfields to deliver on the goals of the National Housing Strategy"**

**Speakers: Margie Carlson, Deputy Executive Director, ONPHA
Marlene Coffey, Executive Director, ONPHA**

Housing costs have outpaced incomes. Affordability is not just a big city problem anymore. 90,000 Ontarians experience homelessness over the course of a year. More and more people are getting left behind including generation squeeze, seniors, indigenous people, individuals with disabilities and people with mental health issues or addictions. These are worrying trends but there has never been a better time to address them. In 2017, the federal government launched Canada's first National Housing Strategy promising to deliver over \$40B over a 10 year period in affordable housing initiatives across the country. With required partnerships between municipalities, the province, developers, communities and non-profit housing providers, there has never been a better time to leverage the available investments to help Ontario address its affordable housing crisis.

9:00 am

EMERGING TECHNOLOGY

Using the popular Peta Kucha format, this session offers rapid-fire discussions of the latest remediation technologies. This year, you'll learn about phytotechnologies and their role in remediation, electrokinetically-placed amendments to treat chlorinated compounds, natural source zone depletion and Quebec's experience with trap and treat.

Speakers:**Parisa Jourabchi - Golder Associates****"Natural Source Zone Depletion: State of Practice and Applications for Sustainable Brownfields Redevelopment"**

The recent advances in the conceptual model of the natural processes acting on LNAPL source zones along with the development of methods for the measurement of natural source zone depletion (NSZD) rates are increasingly leading to the application of NSZD assessment for sustainable management of petroleum hydrocarbon sites. We present tools and methods developed

Continued...



Conference Program

9:00 am

EMERGING TECHNOLOGY CONT'D.

through field trials of the CO₂ efflux method and the vadose zone biodegradation loss (VZBL) model with comparison of estimated rates. Applications of the developed methods for NSZD assessment are demonstrated for multiple LNAPL bodies at a large industrial site. Practical tools for the estimation of NSZD rates provide a performance metric for remedial technologies selection, and informing the point of transition from active remediation such as LNAPL recovery to natural or enhanced bioremediation.

Sylvia Mancini - Geosyntec Consultants***“Electrokinetically-emplaced amendments for enhanced treatment of chlorinated compounds in low permeability source areas”***

Electrokinetics provide a unique delivery mechanism for the enhancement of In Situ Chemical Oxidation, In Situ Bioremediation, and other proven treatment technologies in clays and other long-term sources of contamination to aquifers. The application of low DC voltage gradients to the subsurface through electrodes drives the migration of ions towards the oppositely charged electrode and results in the bulk movement of groundwater from one electrode to another. This process is highly efficient in clay-rich strata, and can result in migration of ions and dissolved compounds at the rate of several metres a month in tight clays. As the processes underlying electrokinetics are independent of soil permeability, the process is particularly suited to environments where hydraulic delivery approaches fail. Pilot and full-scale demonstrations of this technology have been completed throughout North America and Denmark. This presentation will discuss the principles of electrokinetics, the state of the science, as well as showcase a case study.

Bruce Tunnicliffe - Vertex Environmental***“Quebec In-Situ Brownfield Cleanup: Case Studies using Trap & Treat”***

With regards to remediation of soil and groundwater, brownfield practitioners desire certainty. Yet subsurface cleanup can be inherently uncertain, due to lack of understanding of historical sources, current contaminant distribution, and the post-remediation behavior of the subsurface.

A novel remediation approach being increasingly undertaken across North America includes the use of injectable activated carbon. Termed Trap and Treat® the injected material uses both contaminant adsorption and destruction to remove contamination from groundwater and soil. This approach helps to increase remedial certainty for a variety of reasons.

A recent Quebec Brownfield Case Study using Trap and Treat® will be presented, along with data from select other Brownfield sites. Additionally updates will be provided from the recent USEPA talk entitled “In Situ Groundwater Remediation by Activated Carbon (AC)-Based Amendments at Several CERCLA and RCRA Sites”.

Continued...

Conference Program

9:00 am

EMERGING TECHNOLOGY CONT'D.

Dr. Barbara A. Zeeb - Royal Military College

"The Role of Phytotechnologies in Remediation of Brownfield Sites"

It is becoming increasingly important to develop more sustainable remediation technologies to clean up the literally thousands of contaminated Brownfield sites within our communities. Traditional remediation strategies for dealing with many types of contaminated soils involve excavation of the soil followed by transport to an off-site treatment facility or to a hazardous waste disposal site. These methods, although expedient, are typically energy-intensive and costly. Furthermore, they may affect the environment in other adverse ways through spills during transport, and they disrupt the local ecosystem by removing or destroying the native soil. Increasingly, contaminated site owners, government legislators, and environmental consultants are turning to more 'green' technologies which additionally create new green spaces and decrease CO² emissions. Phytotechnologies are clearly 'green' technologies, driven by solar energy. In most cases, the contaminated soil is remediated in place and is then re-usable. By developing these technologies, we are not simply transferring the liability for contaminated matter from one area (the contaminated site) to another (a landfill). Vegetating the land also acts in our favour in terms of greenhouse gas storage which has been estimated at approximately 6 tonnes per hectare. Finally, phytotechnologies can be very cost effective and costs may be spread out over several years. The technology is however very site-specific and it can take years to fully remediate a site using phytotechnologies alone. In many cases, there may be a role they play alongside our more traditional remediation technologies. In every instance, we need to take into account factors including the contaminant type and concentration, the soil make-up, the hydrology of the site, the climate, the native plants at the site, etc. This presentation will highlight examples of phytotechnologies involving metal, organochlorine, petroleum hydrocarbon, and salt-contaminated sites, and will emphasize the integration of plant-based remediation technologies into our portfolio of remediation strategies.

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Conference Program

10:00 am

NETWORKING BREAK

Sponsored by:



10:15 am

LEGAL UPDATE

Speaker: John Georgakopoulos - Willms & Shier Environmental Lawyers LLP

Case law is always evolving. Join us for this discussion of recent and important changes in the interpretation of the law that will affect brownfields practice in the near future.

10:45 am

CROSS-COUNTRY CHECK-UP

Sponsored by:  TREAD

Speakers: Krista Barfoot - Jacobs Engineering Group, (Ontario)
 Lisa Fairweather - Alberta Environment and Parks
 Laurent Pilon - Réseau Environnement, (Quebec)
 Kerri Skelly - BC Ministry of Environment and Climate Change Strategy

Always popular with Conference participants, this year's Check-up will focus on the changing regulatory landscape for excess soils. Learn about BC's new regulations, Ontario's pending guidelines and Quebec's soil tracing program.

12:00 pm

NETWORKING LUNCH

Sponsored by:  JACOBS

1:00 pm

"THE BROWNFIELDS INDUSTRY IN CANADA: STATE OF THE UNION" - CBN/RYERSON RESEARCH

Moderator: Grant Walsom - XCG

Speakers: Dr. Chris de Sousa, Ryerson University
 Angus Ross - L and A Concepts
 Reanne Ridsdale, Ryerson University

It's been 15 years since the National Round Table on the Environment and the Economy (NRTEE) report and its 13 recommendations. In this session, you'll hear about the NRTEE background and CBN's role in moving its recommendations forward from Angus Ross, who chaired the Task Force. Following that will be a presentation from a Ryerson planning studio group on the state of brownfields policy in Canada. Then we'll learn about the CBN/Ryerson survey results, during which you'll discover how the brownfield community views the progress we've made and their views on what remains to be addressed.

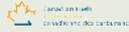


Conference Program

2:15 pm

NETWORKING BREAK

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2:45 pm

BREAKOUT DISCUSSION GROUPS

This is the working part of the Conference. Participants will go into breakout groups to discuss the survey results and policy report. Each group will have one or more "challenge questions" to answer in light of the research findings, and will be tasked with identifying the next steps in moving Canada's brownfield agenda forward. The breakout groups will be facilitated.

3:45 pm

CHARTING THE FUTURE - PLENARY DISCUSSION

Facilitator: Todd Latham - Actual Media

In this session, the culmination of the day, we will regroup, review and discuss the recommendations of the breakout groups, agree on the priority issues to be addressed to ensure brownfield reuse will be the preferred solution for developers (even more so than now), and define what CBN's role could be in making this happen.

4:30 pm

HUB AWARDS

Host: D. Grant Walsom, President

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Join us as we celebrate individual excellence in brownfields through the presentation of the 3rd Annual HUB Awards. Who will be acknowledged?

5:30 pm

NETWORKING RECEPTION AT JOEY RESTAURANT

1 Dundas Street W., Toronto, ON

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Speaker Biographies



Krista Barfoot Jacobs Engineering Group, (Ontario)

Krista Barfoot is a Principal Brownfield Technologist with over 20 years of industry experience. She is a Qualified Person for Risk Assessment under Ontario Regulation 153/04, the Chair of the Ontario Environmental Industry Association (ONEIA) Brownfields Committee, and a member of ONEIA's Excess Soils Sub-Committee. Dr. Barfoot's technical expertise includes human health risk assessment, vapour intrusion, management of excess soil, non-aqueous phase liquid (NAPL), risk mitigation measures, and stakeholder communication. She is actively leading the development of the strategic approach for revitalizing several large, high-profile brownfield sites in Ontario; these efforts have included the development of delivery strategies to facilitate the successful delivery of RA and remediation work under tight timelines.



Margie Carlson Deputy Executive Director, ONPHA

Margie Carlson joined ONPHA as Deputy Executive Director in 2016 bringing her substantial background in social and affordable housing to Canada's largest non-profit trade body. For over 25 years, she has undertaken housing policy, research and best practices work for all three levels of government and the non-profit sector. Margie has always been a change agent, thought leader and idea generator. Her in-depth knowledge of housing programs, legislation, corporate structures and operations matched with her exposure to international best practices in community housing has given her a unique background in Canada. She has worked with non-profit boards, published reports, spoken at conferences and been a regular presence at ministerial working tables. In 2015, she worked with Senator Art Eggleton, Ed Clark and the other members of the Mayor's Task Force on Toronto Community Housing to help create a vision for transformative change for Canada's largest social housing provider. Margie is also the first Canadian to be accredited as a Chartered Member by the UK-based Chartered Institute of Housing (CIH).



Marlene Coffey Executive Director, ONPHA

As ONPHA's new Executive Director, Marlene Coffey brings a fresh perspective and solid experience as a civic leader and collaborator to a sector that is poised for transformation. With a background in leading municipal economic development divisions and non-profit corporations, her portfolio includes the cities of Hamilton, Waterloo, Milton and Stratford where she launched two innovative centres and partnered with numerous stakeholders and business enterprise centers. For the last three years, Marlene was CEO of InvestStratford, where she led the Stratford Economic Enterprise Development Corporation (SEEDco) through the start-up phase, including developing the InvestStratford innovation hub. Prior to that she developed and launched the Milton Educational Village Innovation Centre in collaboration with Wilfrid Laurier University, and served as the Director of Economic Development for the City of Waterloo. Marlene is a Registered Professional Planner with two related master's degrees, and she is currently earning a designation as a Qualified Mediator. Her personal mission is the art of advancement in community-building, and the common thread among her works is innovation and collaboration for building great cities.

Speaker Biographies



Christopher De Sousa, RPP
Ryerson University

Christopher is a Professor in the School of Urban and Regional Planning at Ryerson University. De Sousa's research activities focus on various aspects of brownfields redevelopment in Canada and the United States. He is currently on the Board of Directors of the Canadian Brownfields Network, a Steering Committee Member on the US Agency for Toxic Substances and Disease Registry (ATSDR) Brownfields/ Land Reuse Health Initiative, and on the Executive Committees for Ryerson's City Building Institute and Center for Urban Research and Land Development.



Lisa Fairweather
Alberta Environment and Parks

Lisa Fairweather has been the Brownfield Coordinator at Alberta Environment and Parks since November 2016 and was awarded the Brownfielder of the Year award in 2017. She is looking forward to sharing Alberta's work and learning from her colleagues at this great national event.



John Georgakopoulos, B.Sc. (Hons.), M.Sc., LL.B.,
Willms & Shier Environmental Lawyers LLP

John is a Partner at Willms & Shier Environmental Lawyers LLP and is a Certified Specialist in Environmental Law by the Law Society of Ontario. John resolves complex environmental legal issues for clients, uniquely drawing on his technical knowledge as a former senior environmental scientist with Ontario's environmental regulator. John has particular expertise advising property developers, REITs, industrial manufacturers, and municipalities about managing environmental risks and liabilities associated with brownfields and contaminated sites. John provides strategic advice to help protect clients against corporate and personal environmental liabilities including civil claims, regulatory orders, prosecutions and fines. John is called to the Bar in Ontario and Alberta.



Dr. Parisa Jourabchi
Golder Associates

Dr. Parisa Jourabchi is a senior consultant of Golder Associates with over 20 years of experience in applied research and computational methods for the characterization of soil, sediment, and aquatic environments. At Golder, Parisa provides technical guidance on site investigation and remediation projects, particularly on vapour intrusion, modeling, monitored natural attenuation (MNA) and natural source zone depletion (NSZD). Parisa has led several applied research projects including field trials for NSZD assessment and the development of toolkits for management of petroleum hydrocarbon sites in context of natural depletion and sustainability.

Speaker Presentations

Speaker PowerPoint presentations from the conference may be found at:

<https://canadianbrownfieldsnetwork.ca/events/cbn-conference-2018/presentations>

Presentations will be posted until August 30, 2018.

Speaker Biographies



Todd Latham

Actual Media

Todd is Founder and President of Actual Media Inc., a national creative agency which produces ReNew Canada magazine, the Top100 Projects report, Water Canada magazine and a number of events including the Canadian Water Summit, the Water'sNext Awards Gala, the Top100 Projects Key Player & Owners Dinner and the CBN Brownie Awards. Todd is a business media leader, idea generator, owner, investor and front line communicator with broad practical knowledge and an extensive network in the global business of environment, water and infrastructure.

Todd is a member of the board of directors for the Canadian Network of Asset Managers (CNAM), the Ontario Public Works Association (OPWA) and the Ontario Coalition for Sustainable Infrastructure (OCSI). He is a senior associate of the Canadian Urban Institute and a member of the University of Toronto Environmental Finance Advisory Committee. In 2011 he travelled to Antarctica with Sir Robert Swan and became an alumnus of 2041 - an international group committed the renewable energy and the preservation of the continent.

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Speaker Biographies



Dr. Silvia Mancini, Ph.D., P.Geo. (ON)

Geosyntec

Dr. Silvia Mancini, Ph.D., P.Geo. (ON), is a Senior Geoscientist in the remediation group of Geosyntec Consultants' Toronto office focused on managing soil and groundwater remediation programs. She obtained a doctoral degree from the University of Toronto focusing on innovative technologies including bioremediation and stable isotope analysis. Silvia's consulting experience includes implementing and managing remediation programs using advanced technologies such as smouldering combustion (STAR), in situ chemical oxidation/reduction, gravel bed bioreactors (GBBRs), and permeable reactive barriers (PRBs). Silvia also provides expert opinions and litigation support on litigation cases in both Canada and the USA. Silvia is an author of several journal articles in her field of expertise and continues to manage government research programs focused on innovative methods and technologies for site characterization and remediation. These programs include the Natural Science and Engineering Research Council of Canada (NSERC) as well as the US Department of Defense Strategic Environmental Research and Development Program (SERDP) and Environmental Security Technology Certification Program (ESTCP).



Laurent Pilon

Réseau Environnement, (Quebec)

Laurent Pilon, Manager - Traces Québec and technical coordinator at Réseau Environnement, is the manager of Traces Québec activities. Mr. Pilon holds a bachelor's degree in Environmental geology and a master's degree in Earth Sciences from the Université du Québec à Montréal. He has 11 years of environmental experience, including five years in the environmental consulting sector. Since 2014, he works at Réseau Environnement where he has served as coordinator for various sectors of activity. Since 2016, he has been involved in the creation and management of Traces Québec. With his experience, Mr. Pilon is well acquainted with the environmental context of Québec, including the provincial and federal environmental regulations related to the management of contaminated land. His experience in environmental project management allows him to understand the processes of environmental projects management.



Reanne Ridsdale

Ryerson University

*Ms. Ridsdale is PhD student at Ryerson University, receiving a Ryerson Graduate Fellowship for 2016-2018. She currently holds a Mitacs Accelerate Grant in partnership with the Canadian Brownfields Network. Her research focus on brownfield revitalization, community rejuvenation, and contaminated land management, supervised by Dr. Chris De Sousa. Reanne completed her Master's from the University of Saskatchewan. Her thesis, titled *Assessing Sustainable Remediation Using Sustainability Discourse* is focused on how sustainability contributes to sustainable remediation, and its efficacy in decision-making. Her research also included looking at the components of a sustainable framework, which includes robust stakeholder involvement, maintaining intergenerational goals, and achieving a socio-ecological balance. She interned with the Saskatchewan Research Council (SRC) through a Mitacs Accelerate Grant. She assisted with stakeholder engagement and comprehensive community as a planning intern at PrairieWild Consulting. She is an active member of SuRF Canada, and co-authored an article with the international SuRF Initiative Team.*

Speaker Biographies



Angus Ross Chairman, L and A Concepts

Born in India and educated in the Channel Islands and England, Angus semi-retired in June, 2000 after 36 years in the reinsurance industry, ending as 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 through pollution and contamination to climate change, where he was unofficial spokesman for the Canadian insurance industry.

In 1995 he was appointed by the Prime Minister 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 early 2003.

In 2004 he became the first Chair of the Canadian Brownfields Network's Advisory Panel and in 2005 was the recipient of the CUI "Brownfielder of the Year" Brownie award. Formerly the Spokesperson for the CBN and a member of the board he is now a board advisor and a member of its Finance and Insurance Committee.

He lives with his wife at Lake on the Mountain in Prince Edward County where he enjoys canoeing, sailing, cycling and the many wineries in the area and he continues to give public presentations on climate change and on brownfields.



Kerri Skelly BC Ministry of Environment and Climate Change Strategy

Kerri Skelly is a Senior Contaminated Sites Officer with the BC Ministry of Environment and Climate Change Strategy. Over the past 18 years she has been responsible for a number of business areas including agricultural waste control, hazardous waste and site profile administration. Currently, Kerri's responsibilities focus on regulatory compliance including education/outreach, verification and enforcement, as well as managing soil relocation issues and contaminated soil discharge authorizations. Over her career in government, she has authored a number of guidance documents, fact sheets and operational procedures with current focus on potential changes to the soil relocation legal regime, local government soil bylaw review and the ministry's Land Remediation Section compliance management approach.



Bruce Tunnicliffe, M.A.Sc., P.Eng. Vertex Environmental

Mr. Tunnicliffe is President of Vertex Environmental Inc., is an Environmental Engineer, and has years of experience designing and implementing remediation of chlorinated solvents and petroleum hydrocarbons. Mr. Tunnicliffe founded and runs the SMART Remediation Seminar series. He holds a Master's degree from the University of Waterloo where he studied in-situ chlorinated solvent remediation in fractured bedrock.

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Speaker Biographies



D. Grant Walsom, B.A.Sc., P.Eng., QP

Partner, XCG Consulting Limited

A senior remediation engineer with over 24 years of experience. He is a Partner at XCG Consulting Limited and leads the Remediation and Risk Assessment Business Unit. Mr. Walsom is a Professional Engineer registered in Ontario, Nova Scotia, and Alberta, and a registered Consulting Engineer in Ontario. In addition, Mr. Walsom is a Qualified Person as defined by the Ontario Regulation 153/04.

Mr. Walsom's expertise has included Phase I and II Environmental Site Assessments (ESAs), Site Remediation, and Environmental Compliance Audits (for both external and pre-acquisition purposes). He has completed numerous Brownfield redevelopments and soil and groundwater remediation projects with virtually all contaminant sources, including metals, polychlorinated biphenyls (PCBs), petroleum hydrocarbons (PHCs), chlorinated solvents and volatile organic compounds (VOCs), and polycyclic aromatic hydrocarbons (PAHs) (including coal tar).

Mr. Walsom currently is the Chair of the Board of Directors for the Ontario Environment Industry Association (ONEIA) and is the co-Chair for the Excess Soils Working Group. Mr. Walsom also serves on the Board of Directors for the Canadian Brownfield Network (CBN) as President. He was proudly named the 2015 "Brownfielder of the Year" by the Canadian Urban Institute.

He enjoys participating in speaking engagements and presentations regarding site remediation case-studies, Brownfield redevelopment and excess soil management. He is currently representing ONEIA in the Ministry of the Environment and Climate Change Excess Soils Engagement Group for the implementation of new excess soil management rules and regulations in Ontario.



Dr. Barbara A. Zeeb

Royal Military College

Dr. Barbara Zeeb received her PhD from Queen's University, Canada in 1994. She joined the Environmental Sciences Group (ESG) at the Royal Military College of Canada (RMCC) in 1996 to co-ordinate environmental research projects, supervise graduate students, and manage environmental projects at numerous active and abandoned military installations across Canada. In 2004, Dr. Zeeb accepted a faculty position at The Royal Military College of Canada (RMCC) in the Department of Chemistry and Chemical Engineering where she was awarded a Canada Research Chair (CRC) in Biotechnologies and the Environment, and became a full professor in 2008. Over the last two decades, she has been involved in multidisciplinary phytotechnological studies to remediate metal-, organochlorine-, petroleum hydrocarbon-, and salt-impacted sites in collaboration with government agencies and contaminated site owners. Dr. Zeeb is also an Adjunct Professor in the Department of Biology and cross-appointed to the School of Environmental Studies at Queen's University. She is the 2017 winner of the Milton P. Gordon Award, the highest award granted by the International Society of Phytotechnology, given to the person who has proven themselves to be a dedicated researcher, teacher/mentor and promoter of phytoremediation, and who has worked to move phytoremediation from the laboratory and greenhouse into field application.

Committee Reports

Annual Report 2018

Finance & Insurance Committee




The finance and insurance committee is focused on identifying new issues of concern for Lenders and Insurers, and changes to insurance and lending that impact brownfield proponents. The committee identifies and tracks new issues or developments. The committee has initiated a few projects this year, set out below.

The committee is reviewing an increase in claims arising from infill development and is watching for potential changes to policies that should be brought to the attention of brownfield proponents.

The committee has discussed claims against consultants, and will be posting an FAQ sheet for consultants to identify when coverage is triggered, how to report, and other key items to ensure that coverage is not compromised.

The committee is also tracking emerging areas of potential concern to brownfield proponents, insurers and prospective brownfield lenders.

The committee is continuing to follow the recent Hamilton Beach case. In Hamilton Beach, property owners and occupiers have been ordered to investigate contamination that has migrated offsite. This decision will have potential impacts for insurers and lenders and may impact the coverage available to brownfield proponents.

The committee is also following Ontario's proposed Excess Soil Regulatory Regime, which is of interest to many brownfield stakeholders including lenders and insurers. As this issue is also of interest to other CBN committees, we are focusing on the potential direct and indirect impacts on both Lenders and Insurers.

2017-18 Committee Members:

- George Boire, Former Chair (Marsh Canada)
- James Evans (RBC)
- Andrew Himel
- Joanna Vince, Current Chair (Willms & Shier)
- Carl Spensieri (Berkley Canada)
- Angus Ross (L and A Concepts)

CBN members interested in joining the Finance and Insurance Committee should reach out to Joanna Vince (joannavince@willmsshier.com)

Committee Reports

Annual Report 2018

Government Relations Committee




Government Relations Committee Mandate:

- Government Relations Committee shall be responsible for establishing strategies and policies with respect to government relations work of the Association, supporting the core purpose of the CBN, to effect change by addressing the barriers associated with brownfield redevelopment in Canada.

Government Relations Committee has been meeting with regions / provinces to engage regulators. To date, very useful and engaging meetings were held with Atlantic PIRI and Ontario. We intend to have follow-up engagement to support addressing key barriers to brownfield redevelopment. The desire going forward is to have similar meeting with other provinces. A meeting is planned with BC later this month, and initial discussions have been held with Alberta.

- At these meetings, CBN is reviewing the:
 - CBN Purpose, Vision, Mission and Goal.
 - CBN Government Relations Committee Mandate and Responsibilities.
 - CBN Guiding Principles in support of Brownfield Redevelopment, and listening to feedback.
 - Outlining what CBN's understands to be key barriers to brownfield redevelopment.
- CBN is seeking to understand:
 - Process / organizational structure for how government agencies / ministries work together internally and work externally with stakeholders.
 - Process for identifying barriers, developing solutions, implementing processes.
 - The engagement with municipalities to promote sustainable urban development and combat climate change.
 - Involvement/role of industry, private stakeholders.
 - Potential support / direct involvement for CBN.
 - Understand the top barriers to Brownfield redevelopment, and the plans to address, remove, or reduce these barriers.
 - Understand the uptake of programs/tools that encourage brownfield redevelopment.

2017-18 Committee Members:

- Rob Hoffman, Canadian Fuels Association
- Chris De Sousa, Ryerson University
- Ellen Greenwood, Greenwood & Associates
- Harm Gross, Next Environmental Inc.
- John Georgakopoulos, Willms & Shier
- Bonnie Prior, Royal LePage

We welcome interested CBN members to get engaged and involved with us in our government relations work!

Committee Reports

Annual Report 2018

Technical Advisory Committee




The CBN Technical Advisory Committee (TAC) represents a national network of individuals actively engaged in brownfield site assessment and remediation related activities. The group looks primarily at the regulatory environments within all jurisdictions including provincial, federal and municipal to identify and communicate changes and trends that are occurring and evolving over time. The members of the group represent and participate with information regarding the changes occurring in their geographic region and within their own discipline. The current member disciplines are wide ranging from environmental consultants, industry, government, and legal and are based in Atlantic Canada, Quebec, Ontario, Alberta and British Columbia.

Within the context of CBN's Guiding Principles, the TAC review proposed regulatory changes to identify and assess the implications on Brownfield Redevelopment. The group has been meeting on a quarterly basis during the year to discuss the changes and when the opportunity arises, provide comments to government when requested.

CBN prepared a submission on June 21, 2017 to the Ontario MOECC in response to the EBR request for public comments on the Excess Soil Management Regulatory Proposal. The TAC is actively working on a submission to MOECC again in 2018 for the revised Ontario Proposed Excess Soil Regulatory Package released in May 2018. This submission is due in June 2018. The proposed onsite and excess soil regulations are generally targeting source sites and are expected to significantly affect compliance efforts associated with management of excess soil in Ontario.

Other significant regulatory changes that have occurred during the past year include:

- Implementation of the BC omnibus changes to the Contaminated Sites legislation. The omnibus changes were passed in late 2016 and were implemented on November 1, 2017. It created new land use types, adjustments of thousands of numerical standards, and required edits and revisions to fifteen (15) protocols, and guidance documents.
- In Quebec, Bill 102 amending the Environmental Quality Act was adopted in late March 2017 and twenty four (24) associated draft regulation amendments were released in February 2018. The draft amendments affect opportunities for remediation of sites, remediation of spills and the movement of soil, and are proposed to come into force in December 2018.
- Alberta released the finalized Risk Management Plan Guidance in late 2017. The guidance discusses how to manage contamination by controlling exposure to receptors.

2017-18 Committee Members:

- Monisha Nandi (ON) - Chairman
- Chris Brown (AB) – Vice Chairman and Secretary
- Members at large: Peter Reid (BC), Alan McCammon (BC), Vijay Kallur (BC), Adrian Bakker (AB), David Flynn (ON), Rene DeVries (ON), Mike Grinnell (ON), Monique Punt (ON), John Georgakopoulos (ON), Martin Beaudoin (QC), John Henderson (NS), and Blanchard Harnum (NS).

Committee Reports

Annual Report 2018

Communications & Membership Committee

cbn



Key Accomplishments

- The committee continues to meet approximately monthly or more frequently when required
- Meetings focus on strengthening the CBN network, outreach to like-minded organizations, promoting CBN initiatives/events (e.g. the annual Conference) and building membership
- To build membership, the committee established a Membership Task Force. The Task Force has two goals – recruiting new members and bringing lapsed members back to CBN
- The committee continued to support Twitter, LinkedIn and Facebook accounts for CBN, to increase our social media presence
- The committee developed a revised table of contents for our webpage, for approval at the board.
- Publication of the quarterly newsletter continued. This included two issues related primarily to the 2017 Conference and an enhanced industry news section

Work in Progress

- Building a Twitter following
- Further strengthening our LinkedIn group
- Identifying additional opportunities to improve our “members only” benefits, particularly through enhanced relationships with similar organizations
- Reaching out to university students with a view to having them assist managing our social media presence and newsletter
- Ongoing updates of the CBN website
- Identifying opportunities to educate stakeholders, including the broader public, about brownfield redevelopment

2017-18 Committee Members:

- Berend Jan Velderman, Golder Associates Ltd., Chair
- Isaël Poirier, FCM
- Guillaume Couillard, FCM
- Erin Fehr, Rice Group
- Brennah McKirdy, Golder Associates Ltd.
- Grant Walsom, XCG Consulting (ex-officio)
- David Petrie, CBN Staff



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