

CONFERENCE

RECLAIM RESTORE REWILD

June 11-15, 2023 QUEBEC CITY • CANADA

CONFERENCE PROGRAM











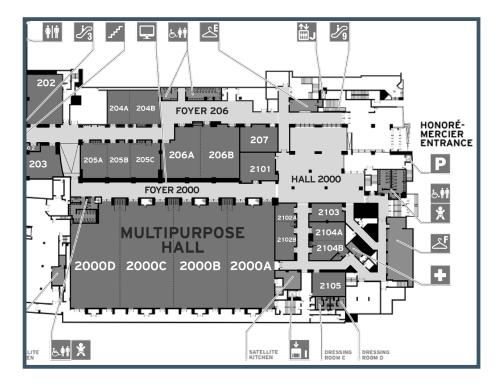








MEETING FLOOR PLAN



LEGEND

REGISTRATION AND SPEAKER READY DESK	HALL 2000
PLENARY ROOM	2000A
PARALLEL ROOMS	202, 204AB, 205AB, 205C, 206A, 206B,
	2101, 2104AB, 2105
LUNCH ROOM	2000B
COFFEE BREAKS, POSTERS AND EXHIBITION HALL	2000CD
SOCIETIES MEETING	2102B & 2103

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SATURDAY, JUNE 10, 2023

08:30 - 16:30	Global Peatland Initiative (GPI) Workshop (1 of 2)	See program
08:30 - 16:00	Training Courses	See program
12:00 - 17:00	IPS Executive Board meeting	Hotel Chateau Laurier

SUNDAY, JUNE 11, 2023

08:00 - 16:00	00-16:00 IUCN Youth Academy	
08:00 - 17:00	Pre-Conference Field Tours	
08:30 - 16:30	Training Courses	See program
08:30 - 16:30	Global Peatland Initiative (GPI) Workshop (2 of 2)	See program
14:30 - 16:30	Walking Tour of Old Quebec, a World Heritage Site	Meeting point: Hall 2000
16:00 - 20:00	Registration	Hall 2000
17:00 - 18:30	Welcoming Speech: Chair of RE3 & Opening Lecture - Edward Struzik	2000AB
19:00 - 22:00	Evening Ice-Breaker	Espace Urbain

MONDAY, JUNE 12, 2023

07:00 - 19:00	Registration	Hall 2000
09:30	Exhibit Hall opens	2000CD
08:30 - 08:45	Opening	2000AB
08:45 - 09:30	Rewilding Plenary Speaker: Gary Pritchard	2000AB
09:30 - 10:15	Rewilding Plenary Speaker: Marie-Eve Marchand	2000AB
10:15 - 10:45	Health break & Press Conference Launching of the Global Peatland Assessment - North American Chapter	2000CD
10:45 - 12:15	RE3 Oral Sessions / Symposia - ISHS oral presentations	See program
12:15 - 13:30	Lunch	2000B
12:15 - 13:30	Women in Restoration Luncheon	2000A
13:30 - 15:00 RE3 Oral Sessions / Symposia - ISHS oral presentations		See program
15:00 - 15:30	Health break	2000CD
15:30 - 17:00 RE3 Oral Sessions / Symposia - ISHS oral presentations		See program
17:00 - 18:30	Poster session 1	2000CD
17:00 - 18:00	IPS Commission Meeting	2102B
18:00 - 19:00	3:00 - 19:00 SER Chapters Meeting	
19:30	Happy Hour for students and professionals	Murphy's Pub

TUESDAY, JUNE 13, 2023

08:00 - 18:00	Registration	Hall 2000
09:30	Exhibit Hall opens	2000CD
08:30 - 08:45	Welcoming words	2000AB
08:45 - 09:30	Reclamation Plenary Speaker: Carla Wytrykush	2000AB
09:30 - 10:15	Reclamation Plenary Speaker: Jacynthe Dessureault- Rompré	2000AB
10:15 - 10:45	Health break	2000CD
10:45 - 12:15	RE3 Oral Sessions / Symposia - ISHS-IPS one-day joint symposium - ISHS oral presentations	See program
12:15 - 13:30	Lunch	2000B
12:30 - 13:30	CLRA Annual General Meeting	206B
12:30 - 13:30	SER-EC 2nd Annual Assembly of Members	2102B
13:30 - 15:00	RE3 Oral Sessions / Symposia - ISHS-IPS one-day joint symposium - ISHS oral presentations	See program
15:00 - 15:30	Health break	2000CD
15:30 - 17:00	RE3 Oral Sessions / Symposia - ISHS-IPS one-day joint symposium - ISHS oral presentations	See program
17:00 - 18:30	Poster Session 2	2000CD
17:00 - 19:00	IPS Annual Assembly	2102B
17:30 - 22:30	Evening at Huron-Wendat site	Meeting point: Hall 2000
18:30 - 23:30	Sugar Shack Dinner at Sucrerie Blouin	Meeting point: Hall 2000
19:00 - 20:30	ISHS Business Meeting	204AB
19:00 - 21:00	IPS National Committee Dinner	Hotel Le Concorde Québec

WEDNESDAY, JUNE 14, 2023

07:30 - 18:00 Mid-Conference Field Tours (including ISHS tours)

PROGRAM AT A GLANCE

THURSDAY, JUNE 15, 2023

08:00 - 16:00	Registration	Hall 2000
08:45 - 09:30	Restoration Plenary Speaker: Tina McCaffrey	2000AB
09:30 - 10:15	Restoration Plenary Speaker: Eric Higgs	2000AB
10:15 - 10:45	Health break	2000B
10:45 - 12:15	RE3 Oral Sessions / Symposia - UN Decade event - ISHS oral presentations	See program
12:15 - 13:30	Lunch	2000B
12:30 - 13:30	SWS Meeting	2102B
13:30 - 15:00	RE3 Oral Sessions / Symposia - UN Decade event - ISHS oral presentations	See program
15:00 - 15:30	Health break	2000B
15:30 - 16:45	Closing ceremony	2000A
18:00 - 01:00	Banquet & Dance evening	Voltigeurs de Québec Armoury

FRIDAY, JUNE 16, 2023

08:00 - 10:00 Post-Conference Field Tours (3 days)

SECRETARIAT QUÉBEC RE3

Tel.: +1 418 522 8182 Email : re3quebec-info@conferium.com



All funds for offset emissions is funding the Carbon Boréal forestry sequestration program. Learn more at www.carboneboreal.uqac.ca

Tous les fonds pour les émissions compensatoires servent à financer le programme de séquestration forestière de Carbon Boréal. Pour en savoir plus, consultez le site www.carboneboreal.uqac.ca



Canadian Sphagnum Peat Moss Association

Association canadienne de la tourbe de sphaigne

AS OF TODAY, THE CANADIAN HORTICULTURAL PEAT INDUSTRY HAS RESTORED 3,450 HA OF PEATLANDS

through the Moss Layer Transfer Technique and Active Rewetting, in addition to 4,700 ha naturally regenerated.

À CE JOUR, L'INDUSTRIE CANADIENNE DE LA TOURBE Horticole a restauré 3 450 ha de tourbières

par la méthode de transfert de la couche muscinale et le remouillage actif, en plus des 4 700 ha régénérés naturellement.

www.peatmoss/restoration www.tourbehorticole.com/restauration

POSTER SESSIONS

WELCOMING WORDS

Welcome to the RE3 Conference!

We are proud to host a joint conference between the Society for Ecological Restoration – Eastern Canada (SER-EC) and the Canadian Land Reclamation Association (CLRA) from June 11th to 15th, 2023, at the third year of the UN Decade of Ecosystem Restoration (2021-2030). We are also excited to cooperate with the Ontario chapter of SER (SER-O), the Midwest Great Lakes Chapter of SER (SER-MWGL), the Canadian chapter of the Society of Wetland Scientists (SWS Canada), the International Society for Horticultural Science (ISHS), the International Peatland Society (IPS) and the American Society of Reclamation Sciences (ASRS) to provide an enlarged scientific and field program.

The theme of the RE3 Conference is "From Reclaiming to Restoring and Rewilding". It aims to stimulate discussions about the range of environmental management approaches advocated by the hosting societies. Reclaiming is recognized and practised by many industries, including mining and petrol extraction. Restoring is recognized most broadly around the world. Rewilding, or bringing back to nature, allows us to dream. These terms also imply ideas of industry, science, practice, society and imagination.

Since 2000, economic development and climate change have accelerated in temperate, boreal and arctic regions of North America, and nature-based mitigation solutions, including ecological restoration, are in full expansion. As the boreal biome comprises close to 20% of wetlands in North America, we believe it is important to bring together, experts from SWS Canada and IPS to join members from CLRA and SER, for stimulating exchanges of knowledge, best practices and new ideas. The conference will provide an excellent opportunity for all members, whether academic, private-sector or governmental stakeholders, to interact and to present the latest developments for reclaiming, restoring or rewilding diverse ecosystems, and to promote the understanding, the science-based management and the sustainability of organic soils use (wetlands, peatlands) in agriculture and soilless cultivation.

Most of the conference will be held in English, but there will also be sessions in French.

Thank you for being a part of the RE3 Conference – we are excited to have you join us!

The Organizing Committee

MOT DE BIENVENUE

Bienvenue à la Conférence RE3!

Nous sommes fiers d'accueillir une conférence conjointe entre la Society for Ecological Restoration – section de l'Est du Canada (SER-EC) et l'Association canadienne de réhabilitation des sites dégradés (ACRSD/CLRA), du 11 au 15 juin 2023, à l'occasion de la troisième année de la Décennie des Nations Unies pour la restauration des écosystèmes (2021-2030). Nous sommes également ravis de coopérer avec la section ontarienne de SER (SER-O), la section Midwest et Grands Lacs de SER (SER-MWGL), la section canadienne de la Society of Wetland Scientists (SWS Canada), l'International Society for Horticultural Science (ISHS), l'International Peatland Society (IPS) et l'American Society of Reclamation Sciences (ASRS) pour fournir un vaste programme scientifique et de nombreuses excursions.

La Conférence RE3 a pour thème « De la réhabilitation à la restauration au réensauvagement ». Ce thème vise à stimuler les discussions sur l'évolution des approches de gestion préconisées par les sociétés hôtes. La réhabilitation est reconnue et pratiquée par de nombreuses industries, y compris celles de l'extraction minière et pétrolière. La restauration est davantage connue dans le monde entier. Le réensauvagement, ou le retour à la nature, nous permet de rêver. Ces termes impliquent également des idées d'industrie, de science, de pratiques, de société et d'imagination.

Depuis 2000, le développement économique et les changements climatiques s'accélèrent dans les régions tempérées, boréales et arctiques d'Amérique du Nord, et des solutions d'atténuation axées sur la nature, dont la restauration écologique, sont en pleine expansion. Comme le biome boréal comprend près de 20 % des milieux humides en Amérique du Nord, nous pensons qu'il est important de convier des experts de SWS Canada et de l'IPS à se joindre aux membres de la SER et de l'ACRSD/CLRA afin de stimuler les échanges de connaissances, de meilleures pratiques et de nouvelles idées. La conférence offrira une excellente occasion à tous les participants, qu'ils soient du monde universitaire ou qu'ils proviennent d'organismes privés ou gouvernementaux, d'interagir et de présenter les derniers développements en matière de réhabilitation, de restauration et d'ensauvagement pour divers écosystèmes, et de promouvoir la compréhension, la gestion scientifique et la durabilité de l'utilisation des sols organiques (zones humides, tourbières) en agriculture et en production hors-sol.

La conférence se déroulera majoritairement en anglais, mais des sessions en français font également partie du programme. N'hésitez pas à feuilleter les pages qui suivent pour choisir

Merci de participer à la conférence RE3! Nous sommes ravis de vous compter parmi nous!

Le Comité organisateur

POSTER SESSIONS

NDEX OF AUTHORS

COMMITEES

ORGANIZING COMMITTEE:

Chair: Line Rochefort (Université Laval, SER-EC)

Co-chair: Maria Strack (University of Waterloo, SER Ontario Chapter)

Co-chair: Fannie DesRosiers (CLRA)

SCIENTIFIC COMMITTEE:

Chair: Maria Strack (University of Waterloo, SER Ontario Chapter)

Co-chair: Alison Munson (Université Laval, SER)

- Daniel Campbell
- Dave Cloutier
- Jacynthe Dessureault-Rompré
- Nigel Finney
- Susan Glasauer
- Ellie Goud
- Mélina Guêné-Nanchen
- Kate Hayes

EXCURSION COMMITTEE:

Chair: Luc Bélanger (SER-EC)

Co-chair: Charles Gignac (SER-EC)

ISHS SCIENTIFIC COMMITTEE:

- James Atland
- Beatrix Alsanius
- Stephanie Boudreau
- Tommaso Barbagli
- Chris Blok
- Jean Caron
- Jacynthe Dessureault Rompré
- Martine Dorais
- Jeb Fields
- Guillaume Grégoire

- Brian Jackson
- Jean-Charles Michel
- Jim Owen
- Steeve Pépin
- Line Rochefort
- Gerald Schmilewski
- Graeme Smith
- Stefania De Pascale
- Bart Vandecasteele
- Youbin Zheng

- Sabine Jordan
- Lucie Labbé
- Chris Lenhart
- Rocky Smiley
- Justin Straker
- Julie Talbot
- Meng Wang
- Bin Xu



Sustainable future

We aim to shape a sustainable future by making a difference in every way we can. For our planet. For our people. For our customers and communities.

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RESPONSIBLE PEATLAND MANAGEMENT IS IN OUR NATURE

KEYNOTE SPEAKERS

Jacynthe Dessureault-Rompré

Professor in soil conservation and health, Université Laval (Québec, Canada)

Keynote for Reclamation Session

Jacynthe Dessureault-Rompré is currently a professor in soil conservation and health at Université Laval (Québec, Canada). She

completed her bachelor's degree in agronomy and master's degree in soil chemistry at Université Laval and obtained a PhD degree from the ETH Zurich in Switzerland, working specifically on the soil-plant relationship. She has done several years of post-doc, studying nitrogen cycling in soil in collaboration with Agriculture Canada and Dalhousie University (Canada). She specialized in the conservation and restoration of cultivated peatlands from 2014, her work being focused on carbon equilibrium through biomass production and soil amendment. Her scientific interests include soil conservation in general and that of cultivated peatland in particular, the soil-plant relationship and climate change, the optimization of N and C cycle in soils for sustainable agriculture and the regeneration of degraded soils using phytotechnology.



Eric Higgs

Professor, University of Victoria (British Columbia, Canada)

Keynote for Restoration Session

Eric Higgs is fascinated by ecological restoration in all of its forms, including participation, social justice and equity, historical ecology for understanding change and reference conditions, and

emerging ecological novelty. He is Professor at the University of Victoria's School of Environmental Studies, past chair of the Society for Ecological Restoration, and director of the Mountain Legacy Project (mountainlegacy.ca). He is author of Nature By Design: People, Natural Process and Ecological Restoration, and co-editor of, Novel Ecosystems: Intervening in the New Ecological World Order.

POSTER SESSIONS

Marie-Eve Marchand



Executive director of the International Buffalo Relations Institute (Alberta, Canada)

Keynote for Rewilding Session

Marie-Eve Marchand is a system entrepreneur who dedicates her life to bring culture, conservation sciences, communications, and

policy together for a better relationship between Peoples and Nature. Over the last decade, she has successfully coordinated the Bison Belong Initiative to bring back Bison in Banff National Park and is actively supporting The Buffalo: A Treaty of Cooperation, Renewal and Restoration as the Executive Director of the Indigenousled International Buffalo Relations Institute. She is also a member of IUCN World Commission on Protected Areas (WCPA) and of the Species Commission, Bison Specialist Group and was the Business and Strategies Manager for the IUCN WCPA Post-2020 Task Force to support an ambitious Global Biodiversity Framework. She is the Chair of the IUCN Green List Expert Assessment Group in Quebec, the first in Canada to improve effective management and conservation in protected and conserved areas. She previously received the national Golden Leaf Award for her work on protecting the last undammed river in Southern Quebec, Dumoine River and played a key role in the Quebec government's commitment to protect at least half of Northern Quebec. She is from St-Bruno, Lac-St-Jean and she lives with her husband Harvey Locke in Banff National Park.



Tina McCaffrey

Supervisor of Regreening with the City of Greater Sudbury (Ontario, Canada)

Keynote for Restoration Session

Tina McCaffrey, B.Sc has been the Supervisor of Regreening with the City of Greater Sudbury since 1994. She is a graduate

of Laurentian University's Biology Program and a native Sudburian, who has experienced the regreening transformation first-hand. In her years with the City, she has supervised nearly 1500 temporary job positions involved in Regreening as well as the planting of over 8 million tree seedlings.



Gary L.J. Pritchard

Conservation ecologist & Indigenous engagement/placemaking specialist (Ontario, Canada)

Keynote for Rewilding Session

Gary Pritchard ~Giniw (Golden Eagle) is Conservation Ecologist & Indigenous Engagement/Placemaking Specialist from Curve Lake

First Nation, Ontario.

Gary has had the privilege to work on behalf of Indigenous peoples throughout Ontario and Canada. He has travelled and worked in almost 300 Indigenous communities throughout Canada and the northern United States. He has brought a wealth of knowledge to both his Indigenous and non-Indigenous cliental performing a wide variety of services including: Indigenous Community Planning, land-use/ traditional knowledge studies, Indigenous lead conservation and restoration, Ecological Monitoring using Two-eyed Seeing, Indigenous Place-making, capacity building, expert testimony, mediation between western science and traditional science and subject matter expert on behalf of Indigenous communities.

Gary loves to connect and educate people through nature. He does this through several mediums. His favourite way is through his wildlife photography and storytelling. He believes that if individuals especially youth can form a connection with nature then all people can make conscious decisions on how we impact Mother Earth and the next seven generations. Gary likes to spend much of his free time educating the youth about "All Our Relations," with his most favourite students being his two children.

One of Gary's greatest strength is that he is often able to be the one who acts as the bridge between the Indigenous Community and the western style of governance. Gary has successfully collaborated with many stakeholder groups, researchers, institutes, government agencies, Indigenous communities, and political organizations to address environmental concerns and identify practical solutions to environmental related issues.

Edward Struzik

Writer, Rapporteur, Public Speaker, Fellow at Queen's Institute for Energy and Environmental Policy (Ontario, Canada)

Opening Keynote

Edward Struzik is a writer, rapporteur, public speaker, fellow at Queen's Institute for Energy and Environmental Policy, School

of Policy Studies, Queen's University and the 2022 Jarislowsky Fellow at the University of Waterloo. He is a regular contributor to Yale Environment 360, an international on-line magazine published by the Yale School of the Environment. His articles and photographs appear in journals, magazines and newspapers such as the Los Angeles Times, Scientific American, Natural History, Policy Options, Foreign Policy Review, Canadian Geographic, National Geographic, Maclean's Magazine, the Globe and Mail, Toronto Star, and the National Post.

Mr. Struzik has earned more than thirty national and international awards for his writings. Among them are several national newspapers and national magazine awards, numerous awards from the Canadian Association of Journalists, the U.S. based Grantham Prize, the Atkinson Fellowship in Public Policy, the Southam Fellowship, the Knight Science Journalism Fellowship at MIT, and the Sir Sanford Fleming Medal, which honours an individual who have made an outstanding contribution to the understanding of science. He has won the Science in Society award from the Science Writers and Communicators of Canada eight times. Two of those were for books.

His latest book, Swamplands: Tundra Beavers, Quaking Bogs and the Improbable World of Peat was made a "top pick" by the Wall Street Journal. Sierra Magazine included it in its list of four "must read" books. Library Journal described it as a "powerful, impressive feat of popular science." In "wholeheartedly" recommending the book, the Oryx, International Journal of Conservation described it as "love letter to a landscape so little thought of. . . "packed with expedition anecdotes, scientific facts and insights into human history.

Mr. Struzik is often called to speak about his books in wide-ranging locales, from UCLA and the Los Angeles Times Book Festival in California to smaller, more remote places such as Whitehorse in the Yukon, Campbell River and Salt Spring Island in B.C and Portland, Maine. In 2018 he briefed Congressional staffers on his book on wildfire. He has been a keynote speaker at the meeting of the Canadian Council of Forest Ministers, the Conference Board of Canada, the Insurance Bureau of Canada, the Wildfire Summit in California, The Centre for Social and Environmental Accounting Research at Ryerson University. the Mountain Festival in the Yukon, the Festival of Ideas in Winnipeg and the University of Trento in Italy. He was recently featured in the National Geographic documentary "The Last Ice" and in "Frozen Obsession" which was aired on PBS throughout the United States in 2021.





Carla Wytrykush

Ecologist, Syncrude Canada Ltd. (Alberta, Canada)

Keynote for Reclamation Session

Carla Wytrykush is an ecologist working to understand ecological structure and function in the oil sands post-mining landscape. At Syncrude Research and Development her work informs landscape

design, reclamation operations, performance monitoring, and Indigenous Community engagement. This guides decision making processes contributing to the achievement of landscape outcomes which support wetlands and lakes that are integrated with the surrounding area, have characteristic biodiversity, yield water suitable to return to the natural environment, and support Traditional Land Uses. Her focus recently has been the development of a reclaimed wetland monitoring program built on 3 key pillars: water, ecology, and community engagement.



Bien enraciné Our Roots Run Deep

GRO + MORE GOOD CULTIVEZ

En tant qu'entreprise bien établie dans l'industrie du jardinage, Scotts Canada est engagée dans la gestion responsable des tourbières et la protection de l'environnement, ce qui se reflète à la fois dans les produits que nous fabriquons et dans la façon dont nous fonctionnons. Nous contribuons à faire de notre monde un endroit plus beau, plus sain et plus nourrissant grâce à des solutions horticoles novatrices et efficaces.

As a company deeply rooted in the gardening industry, Scotts Canada is committed to continued responsible peatland management and environmental protection, reflected in both the products we make and how we operate. Helping make our world a more beautiful, healthy and nourishing place with innovative, and efficacious growing solutions.



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17th International Peatland Congress 4 - 9 August 2024, Taizhou China



Join the International Peatland Society! www.peatlands.org/join-us

GENERAL INFORMATION

CONFERENCE VENUE

Québec City Convention Centre 900 Boulevard Honoré-Mercier Québec, QC G1R 5H9 Canada

PARKING

There are many underground parking spaces close to the Centre. More specifically, Marie-Guyart complex, Place Québec, Delta Hotel and finally the Place D'Youville parking lot all linked by underground connections. These lots operate 24 hours a day, 7 days a week.

REGISTRATION DESK

All participants should register at the Registration Desk to receive relevant Conference materials. The Registration Desk is located in the Hall 2000 of the Convention Centre. It will be open at the conference venue at the following times:

Sunday, June 11	16:00 to 20:00
Monday, June 12	07:00 to 19:00
Tuesday, June 13	08:00 to 18:00
Thursday, June 15	08:00 to 16:00

EXHIBITION HOURS

Monday, June 12	09:30 to 19:00
Tuesday, June 13	09:30 to 19:00

MEALS AND COFFEE BREAKS

Coffee breaks are located in the exhibition hall and lunches are located in the 2000B.

NAME BADGE

Please wear your name badge at all times. This will ensure your access to the conference rooms and the Exhibition Hall.

CERTIFICATE OF ATTENDANCE

An official certificate of attendance will be provided upon request. Come to ask for it.

INTERNET ACCESSMOBILE PHONE

Free internet facilities are available to all participants in the conference venue. During the meetings, please turn off your mobile phone or set it to mute.

Wifi: Centre des congrès No password needed

SPEAKER PRESENTATION UPLOAD

All speakers must check in the presentation room to upload their presentation 15 minutes before the start of their session. The volunteer will be available to answer your questions and to help you upload your presentation from your USB memory stick. Before your session, you can also stop by the registration desk and test your presentation at the Speaker Ready Desk, where two computers identical to the one in the presentation room will be available for testing.

DISCLAIMER

The Québec RE3 Conference secretariat and organizers cannot assume liability for personal accidents, loss of or damage to private property of participants, and accompagnying persons, either during or directly arising from the Québec RE3 Conference. Participants should make their own arrangement with respect to health and travel insurance.

SECURITY

Please do not leave bags and luggage unattended at any time, whether inside or outside session rooms.

SHOW YOUR BADGE

Exclusive offers for event attendees! Take advantage of incredible discounts at top attractions and restaurants in the Québec City area. The Québec City Convention Centre's Show your badge program is the perfect opportunity to discover the best of Québec City while enjoying exclusivities in some of the most popular spots. Visit our website today to learn more! www.convention.qc.ca/badge-program

POSTER SESSIONS

LIST OF EXHIBITORS

EXHIBITORS	#
Northern Wildflowers	1
Trace Associates inc.	2
PeatHub (CSPMA, Berger, SunGro et Premier Tech)	3,5,7,9
Fondation de la faune du Québec	4
Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs	6
Ministère des ressources naturelles et des forêts Québec	8
Pêche et Océans	10
AGAT Laboratoires	11
Soleno	12
Organizing Societies	13, 15, 17
Turftech International Limited	14
Terra Motion Canada	16
Pathway Alliance	18, 20
Ducks Unlimited Canada (DUC)	19

EXHIBITION PLAN

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POSTER SESSIONS

ACKNOWLEDGEMENTS

The Québec RE3 Conference Organizing Committee would like to express its gratitude to and acknowlege to the following partners for their generous support:

PARTENAIRE DE LA RÉCEPTION DE BIENVENUE / WELCOME RECEPTION



Canadian Sphagnum Peat Moss Association

Association canadienne de la tourbe de sphaigne

DIAMANT / DIAMOND



PLATINE / PLATINUM





OR / GOLD



ARGENT / SILVER Scotts. Alliance Pathways Alliance Nouvelles voies BRONZE PRECISION Hydro Québec Fondation TURFTECH de la faune du Québec Results.Expect it **PARTENAIRES GOUVERNEMENTAUX / GOVERNMENT PARTNERS** Québec 불 🌋 Canada **COOPERATING ORGANIZATIONS** SOCIETY // WETLAND SCIENTISTS SOCIETÉ POUR LA SER SOCIETY FOR RESTAURATION SECOLOGICAL RESTORATION CLRA | ACRSD SER SER UNIVERSITÉ ASRS LAVAL

TRAINING COURSES

TC-01 BECOMING A BETTER ENVIRONMENTAL CONSULTANT - IMPROVING OUTCOMES

Sunday, June 11, 2023, from 08:30 to 16:30, Université Laval Lead organizer: Tom Hilditch, Colucent Environmental Inc.

Summary: We are entering a period of transformation in the environmental consulting industry that if embraced, can accelerate positive ecological restoration outcomes on the ground. We need to shift the inordinate amount of energy invested in growing firms and profitability, towards accelerating ecological restoration and rewilding outcomes.

This workshop will inspire those in the consulting industry to create genuine change in business practices that will lead to:

- Stronger teams who are aligned with meaningful ecological restoration outcomes
- More authentic and meaningful business growth
- More inspired teams and leaders
- Improved trans-disciplinary technical analyses
- A better understanding of industry trends
- An awareness of emerging restoration and human-nature markets
- The more effective use of business resources in favour of our planet

TC-02 GATHERING SEEDS AND SHARING STORIES: TWO-EYED SEEING TOWARDS AN INDIGENOUS SEED COLLECTION PROGRAM

Saturday, June 10, 2023, from 08:30 to 16:30, Wendake

Lead organizer: Mary Knockwood, Natural Resources Canada

Summary: This outdoor, interactive short course will discuss and build on lessons learned from a 2022 cross-Canada Indigenous Seed Collection program initiative. Dr. Andrew Judge will share stories and a toolkit for designed to support Indigenous communities in sharing and saving seeds of species important to them.

INDEX OF AUTHORS

TC-03 PEATLAND RESTORATION: MOSS LAYER TRANSFER TECHNIQUE AND ALTERNATE METHODS

Sunday, June 11, 2023, from 08:30 to 16:30, Université Laval

Lead organizers and Instructors: Marie-Claire LeBlanc, CPSMA, Peat and Substrates Cluster & François Quinty, WSP

Summary: In a global context where climate change and biodiversity loss are increasingly present concerns, the ecological restoration of wetlands appears as an essential element given the importance of these ecosystems. More specifically, the restoration of disturbed peatlands could lead to the return of the carbon sequestration and other peatland ecosystem functions including biodiversity.

In Canada, peatland restoration focuses on cutover bogs used for horticultural peat extraction. As of today, more than 1,800 hectares of post-extracted peatlands have been restored across Canada, mostly with the Moss Layer Transfer Technique (MLTT). More recently, the technique has also been adapted and applied to other types of peatlands (fens) and other types of disturbance (oil and gas roads and well pads, powerlines).

This Training Course will present the various ecological restoration methods developed for peatlands in Canada. The course will focus on the restoration of cutover peatlands used for peat extraction: each step of the MLTT will be examined and discussed, from project planning to conducting and assessing the success of restoration. Additionally, other types of peatlands (fens) and disturbances (mines, linear features, wetland management) will also be discussed. Through numerous examples and case studies, participants will learn how to plan, carry out, and monitor peatland restoration projects. The course will also be an opportunity to exchange about lessons learned and new ways of achieving cost-efficient and ecologically-sound peatland restoration projects. Participants to this Training Course will be invited to submit pictures of their own restoration projects (planned or realized), which will be discussed during the course.

TC-04 TAXONOMY AND KEY BRYOPHYTE AND LICHEN SPECIES USEFUL IN ECOSYSTEM RESTORATION (1.5 DAY COURSE)

Saturday, June 10, 2023, from 08:30 to 16:30, Université Laval AND Sunday, June 11, 2023, from 08:30 to 12:00, Université Laval Lead organizer: Aamir Shehzad Khan, Université Laval

Summary: A laboratory and lecture course which is design to train and describe the techniques and tools useful in the identification of some important species of bryophytes and lichens suitable in different ecosystem restoration.

The course will be given in two sub-groups (lichen and bryophyte lab) and the labs will be spatially organized by the identification group of interest. The formula of training will be relaxed and individualized in parts with information points. The short lectures will include the infield characters and ecology of species followed by microscopic methods, which will consist of some short, guided laboratory techniques with the instructors, helping and guiding the participants during the session. The training will be offered in two languages (English and French) and it will be hosted by the joint collaboration of Peatland Ecology Research Group and Louis-Marie Herbarium (Université Laval) along with Quebec Bryological Society.

For this course, the following books are strongly recommended. They are not compulsory, but you can buy them now and they will be given to you on site :

- Les sphaignes de l'Est du Canada Clé d'identification visuelle et cartes de répartition (2019). Auteurs : Gilles Ayotte, Line Rochefort. ISBN: 9782924651995. En français (In French). Price: \$ 60.00
- Sphagnum Mosses of Eastern Canada Visual identification key and distribution maps (2021). Authors: Gilles Ayotte, Line Rochefort. ISBN: 9782897990930. In English. Price: \$ 60.00 Price: \$ 60.00Price: \$ 60.00
- À la découverte des mousses et autres bryophytes du Québec (2022). Auteurs
 : Société québécoise de bryologie, Éditions NaturAT, 226 pages. En français (In French). Price: \$ 39.00

GLOBAL PEATLANDS INITIATIVE 2-DAY WORKSHOP

Saturday, June 10, 2023 AND Sunday, June 11, 2023, from 08:30 to 16:30, Université Laval

Lead organizer: Maria Stack, GPI

Summary: Organized by the Global Peatland Initiatives (GPI), Peatland Ecosystem Restoration Group (PERG), and Can-Peat project, the workshop "Building collaborations for effective peatland management in Canada" aims to bring together peatland experts across Canada and disciplines to compile and consolidate knowledge, data, and experience on peatlands in Canada. The workshop opens on June 10th with a field trip to a local peatland, Saint-Henri. In addition, over the two-day workshop, there will be panels on peatland policies, leveraging multilateral environmental agreement synergies, and monitoring and measuring in peatlands. Each panel will include time for discussion and collaboration on the topics to ensure actions are planned to follow up on the lessons learned. The workshop aims to include all voices interested in peatlands and will have representatives from government, industry, academia, NGOs, and Indigenous knowledge holders.

IUCN FUTURE LEADERS ACADEMY

Sunday, June 11, 2023, from 08:30 to 16:30, Université Laval Convenor: Liette Vasseur, IUCN

Summary: For young professionals (defined by IUCN as 35 years old and younger) from Canada, early career or studying in the RE3 fields

Objective: To empower a new generation of professionals representing diverse backgrounds. Sixteen young professionals interested or studying in the RE3 fields will be invited to attend the Academy. The curriculum is designed to prepare participants to engage fully in the discussions during the RE3 Conference and support the Plenary session that will follow the Academy. The content will emphasize governance in the context of the three themes: reclamation, restoration, and rewilding. The other theme considered are related to working in the field in practice such as project management, importance of engaging with communities (especially Indigenous communities), etc. The training faculty will be drawn from the invited participants to the Conference, and from amongst the IUCN membership. Small seminars and discussion groups will be the primary means for sharing knowledge and understanding of the issues.

FIELD TRIPS

FIELD TRIPS PRE CONFERENCE

FT PRE 4B - GRANDE PLÉE BLEUE PEATLAND, A POOL-COVERED NATURAL BOG IN AN URBANIZING LANDSCAPE

The magnificent Grande plée Bleue bog (1,500 hectares) is one of the last large bogs in the St. Lawrence Lowlands. The site will soon become a provincial ecological reserve protecng a large proporon of this exceponal wetland. You will discover techniques for restoring scars made in a natural bog (path and drainage channel). You will see effects of dams on the drainage channel. Parcipants will also have the chance to visit an enrely natural poron of the bog with pools and learn more about their formaon and other features of this ecosystem.

Field trip leader(s): Sylvain Jutras (Université Laval) and Julie Talbot (Université de Montréal)

Departure/Return: Québec City Convention Centre Duration: Half-day Date: Sunday June 11, 2023, from 8:30 to 13:15

FT PRE 5 - DISCOVERY OF THE GRANDE PLÉE BLEUE BOG AND INTRODUCTION TO THE TAXONOMY OF BOG PLANTS AND MOSSE

You will discover the beauful Grande-Plée-Bleue bog (1,500 hectares), one of the last intact peatlands of the St. Lawrence Lowlands. The site will soon become a provincial ecological reserve protecng a vast proporon of this exceponal wetland. Parcipants will stroll the educaonal boardwalk that zigzags through ponds and Sphagnum hummocks to learn more about this unique ecosystem. Parcipants will have the chance to have an introducon to peatland taxonomy by learning typical bog plant names and learning how to idenfy peatland bryophytes such as Sphagnum mosses.

Field trip leader(s): Michel Michaud of the Société de conservation et de mise en valeur de la Grande plée Bleue and the Peatland Ecology Research Group (Université Laval)

Departure/Return: Québec City Convention Centre Duration: Half-day Date: Sunday June 11, 2023, from 8:30 to 13:15

POSTER SESSIONS

FIELD TRIPS MID CONFERENCE

FT MID 6 - MARAIS-LÉON-PROVANCHER NATURE RESERVE NEAR QUÉBEC CITY (ST. LAWRENCE TIDAL MARSH, ARTIFICIAL INLAND MARSH, AND VARIOUS ONGOING RESTORATION PROJECTS)

This half-day excursion will allow you to visit the Marais-Léon-Provancher Nature Reserve. This 125-hectare natural site is dedicated to the protection of flora and fauna. The visit will be led by managers and scientists who will explain the history of the territory as well as conservation, restoration, and education objectives. Located in Neuville, 30 km west of Quebec City, this area, one of the best bird watching hotspots near Quebec City will allow you to discover several different habitats of the fluvial estuary of the St. Lawrence River (Scirpus tidal marsh; artificial inland marsh; sugar maple, eastern white cedar, and alder stands; idle lands). Various ongoing interventions of restoration and rewilding of the habitat (creation of a freshwater marsh) will be showcased as well as the control of invasive exotic plant species (common reed).

Field trip leader(s): Société Provancher d'histoire naturelle Departure/Return: Québec City Convention Centre Duration: Half-day Date: Wednesday, June 14, 2023, from 8:30 to 12:00

FT MID 7 - VISIT OF A RESTORED PEATLAND AND A NATURAL BOG NEAR QUEBEC CITY

This tour offers you the chance to visit a multitude of peatland landscapes ranging from mined and restored to natural. The first part of the tour will take place at the Saint-Henri peat bog, an industrial peat extraction site. You will be able to discover different types of bogs: rewetted bog, bog restored by the Moss Layer Transfer Technique and a natural bog used as a donor site for restoration. In the afternoon, you will have the chance to discover the Grande plée Bleue bog (15 km2), one of the last sizeable ombrotrophic peat bogs in the St. Lawrence Lowlands. A project to create an ecological reserve aims to protect most of this wetland (61% or about 900 ha). The excursion will take place in the portion of the bog that has been developed for educational purposes and is characterized by the presence of numerous pools.

Field trip leader(s): Peatland Ecology Research Group, Université Laval), Premier Tech Horticulture and Canadian Sphagnum Peat Moss Association Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 9:00 to 17:00

FT MID 8 - RESTORATION OF SAND AND GRAVEL PITS IN BOREAL CLIMATE: AN OVERVIEW OF FIELD TRIALS FOLLOWED BY A CANOE/KAYAL EXCURSION OR A GUIDED TREK IN THE TAIGA

During this one-day excursion, you will have the opportunity to visit gravel and sand pits that were restored using the Rough and Loose technique (creation of microtopography). The team of Dr. Line Rochefort and the Centre for Northern Studies will guide you through various types of borrow pits: naturally regenerating (for about 40-50 years), restored by the transfer of organic matter (5-10 years postrestoration) or restored by Rough and Loose technique (3 years post-restoration).

Field trip leader(s): Sandrine Hogue-Hugron (Centre d'études nordiques) and Peatland Ecology Research Group - Université Laval Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 7:30 to 18:30

FT MID 11/21 - VISIT TO WETLAND AND WATER RESTORATION SITES IN THE SAINT-CHARLES RIVER WATERSHED AND IN THE QUEBEC CITY AREA

Agiro, the "Ministère des Transports et de la Mobilité durable" (MTMD), the Huron-Wendate Naon (Wendake) and the "Ville de Québec" are joining forces to offer you an excursion that will allow you to visit several wetland and water restoraon sites in the Saint-Charles River watershed and beyond. Coming from very different backgrounds, these four partners are commied to conserving and restoring wetlands and waterways. The tour includes visits to several restored sites, including the marais du Nord, the marais du Moulin and a restored secon of the banks of the St. Charles River. The tour will also include a stop in Wendake to visit an American eel restoraon site.

Field trip leader(s): Agiro, Ministère des Transports et de la Mobilité durable, Nation Huron-Wendate and Ville de Québec Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 8:00 to 17:00

FT MID 14 - MARINE HABITAT, CONSERVATION OF ENDAGERED SPECIES, AND WHALE WATCHING IN THE ST. LAWRENCE ESTUARY AND THE SAGUENAY FJORD

This one-day field trip will give you the chance to visit the majestic Saguenay-St. Lawrence Marine Park, the perfect destination for whale and marine mammals watching on the St. Lawrence. At the junction of three different but interrelated ecosystems (Upper Estuary, Lower Estuary and Saguenay Fjord), we find a great diversity of marine habitats marked by variations in temperature, salinity, seabottom types and depth. This crucial sector of the St. Lawrence is a real pantry for a multitude of species of whales, seals and aquatic birds. But the challenges of conservation of habitats and species are numerous and diverse.

OPTION A: During this excursion, you will have the chance to visit the Marine Mammal Interpretation Centre (CIMM). It is managed by the Marine Mammal Research and Education Group, a non-profit organization dedicated to scientific research on St. Lawrence whales and education for the conservation of the marine environment. This centre, which welcomes more than 35,000 visitors each year, will help you discover the adaptations to the whales' marine world, the threats they face and the scientific research efforts on them. You may even be able to see belugas and minke whales from the Centre's terrace! Located in the picturesque village of Tadoussac, whose bay is renowned as one of the most beautiful in the world, you can enjoy free time to visit the surroundings and enjoy the local cuisine.

OPTION B: But what better than to observe all these species in their habitat, to appreciate their natural behavior while learning about the best conservation approaches and best practices to adopt to minimize their disturbance and increase their survival. You will be able to navigate for three hours in the Saguenay-St. Lawrence Marine Park on a comfortable and specially designed boat for ecoresponsible observation of the 13 species of whales and marine mammals, while benefiting from the interesting information provided by a naturalist guide. An expert from the Marine Mammal Research and Education Group, a non-profit organization dedicated to scientific research on St. Lawrence whales and marine conservation, will be on board during the excursion to answer your questions. Finally, an incursion into the majestic Saguenay Fjord will allow you to admire its magnificent landscapes.

Field trip leader(s): Groupe de recherche et d'étude sur les mammifères marins (GREMM)

Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 7:00 to 17:30

FT MID 18 - VISIT TO THE MONTMORENCY FOREST RESEARCH STATION IN NORTHERN QUEBEC'S BOREAL REGION

This one-day excursion will give you the chance to visit the Forêt Montmorency experimental station located in the boreal forest north of Quebec City, whose mission is to be a laboratory and a host environment for teaching, research and education in relation to boreal territories. To this end, this territory is developed in such a way as to aim, through experimentation, at excellence and exemplarity for the advancement of forest sciences.

During this excursion, you will have the chance to discover some of the natural features of this teaching and research forest, as well as to discover various demonstration sites for innovative silvicultural and management practices and experimental sites aimed specifically at research on boreal forests and climate change.

Field trip leader(s): Evelyne Thiffault from the Faculté de foresterie, de géographie et de géomatique - Département des sciences du bois et de la forêt Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 8:00 to 17:30

Questionner le présent Imaginer le monde de demain Créer le futur

We integrate nature-based solutions to protect and restore biodiversity, ensuring project success.

FT MID 20 - REMEDIATION AND RESTORATION OF THE LAC-MÉGANTIC (QUÉBEC) OIL TRAIN TRAGEDY

A rail disaster occurred in the town of Lac-Mégantic, Québec, on July 6, 2013, when an unattended 74-car freight train carrying Bakken Formation crude oil derailed in the downtown core, resulting in the fire and explosion of multiple tank cars, as well as a major spill of petroleum hydrocarbons and 300,000 m3 of contaminated soil and killing 47 residents.

This site visit will bring you to the City of Lac-Mégantic to show you the following areas:

- Where the train was parked overnight of to examine the general landscape down slope toward Lac-Mégantic;
- Impacted zones and how they were restored;
- Migration of contaminants toward the shore of Mégantic Lake, marina wharf and Chaudière river areas;
- Soil storage and treatment areas (no more piles);
- The social impacts and challenges face by the municipality to rebuilt and General redevelopment of the municipality and; of this tragedy.

In the afternoon, the visit will continue toward Black Lake mining site where most Lac-Mégantic treated soil were transported and reused, so you'll be able to see:

- The soil and organic residuals reception area and where they were mixed with other materials to create a fertile substrate for the vegetation;
- The seedlings and the evolution of vegetated areas on the slope and plateau of the waste rock piles;
- The impressive mine pit.

Field trip leader(s): Lucie Labbé from the CLRA Quebec Chapter, AECOM, Englobe (Daniel Deschênes), Ville de Lac Mégantic (France Bergeron) **Departure/Return:** Québec City Convention Centre

Duration: 1 day

Date: Wednesday, June 14, 2023, from 8:00 to 17:30

FT MID 22 - RESPONSIBLE PEATLAND MANAGEMENT: FROM PEAT EXTRACTION TO PEATLAND RESTORATION

This one-day tour will bring you from the peat production to peatland restoration and management.

The participants will stop at Premier Tech headquarters and will visit a peatprocessing plant where peat and growing media are prepared. The importance and characteristics of peat as a substrate as well as the industry sustainability initiatives (such as the Veriflora Responsibly Managed Peatlands certification) will be presented. If the weather permits, we will also visit peat harvesting fields to show the process of vacuum-harvesting. This will also be the opportunity to discuss about greenhouse gas (GHG) emission from peat extraction, peat use, and end-use with researchers from McGill University.

Next, participants will visit Bois-des-Bel, a restored peatland. This peatland was partially peat harvested from 1972 to 1980, leaving a peat deposit of approximately 2 m deep. The peatland was restored in 1999-2000, with the goal to promote the return of ecosystem functions, especially peat accumulation and carbon sequestration. The peatland restoration technique that had been tested on small-scale plots was tested for the first time on an ecosystem scale. Research carried out at this experimental station over the last 23 years has allowed to better understand how a restored ecosystem evolves in terms of vegetation patterns, hydrology, biodiversity and carbon cycles over a long period of time.

Field trip leader(s): The tour will be led by the Canadian Sphagnum Peat Moss Association (CSPMA) and Peat and Substrates Cluster, along with peat-producing companies and researchers from various universities Departure/Return: Québec City Convention Centre

Duration: 1 day Date: Wednesday, June 14, 2023, from 8:30 to 18:00

FT MID 23 - VISIT ISHS USE OF GROWING MEDIA IN DIFFERENT CONTEXTS

This tour will allow visitors to familiarize themselves with different projects or companies using growing substrates ranging from the production of cannabis berries, to green roofs and biofiltration through emerging environments such as the production of cannabis and the production of berries.

Field trip leader(s): Jean Caron, Guillaume Grégoire and Martine Dorais from Université Laval and ISHS

Departure/Return: Québec City Convention Centre Duration: 1 day Date: Wednesday, June 14, 2023, from 8:00 to 17:00

FIELD TRIPS POST CONFERENCE

FT POST 5 - FROM HORTICULTURAL PEAT EXTRACTION TO PEATLAND RESTORATION: A JOURNEY IN THE ST. LAWRENCE VALLEY

During this three-day field trip, participants will learn more about the peatland restoration method developed by the Peatland Ecology Research Group (PERG), called the Moss Layer Transfer Technique. This method has been applied to over 100 restoration projects across Canada in the past 20 years. The tour will stop at eight different peatland sites: a pristine peatland, rewetted peatlands, peatlands that have been restored for 2 to 20 years, a restored site that was affected by a fire and a Sphagnum farming site. A regenerating fen will also be visited. Additionally, a visit of a peat production site peat where growing media is prepared will be offered. The importance and characteristics of peat as a substrate as well as the peat industry's responsible management initiatives (such as the Veriflora Responsibly Managed Peatlands certification) will be discussed.

The tour will take place mainly in Rivière-du-Loup, located 200 km east of Québec City in the coastal Lower St.Lawrence region. The program also includes a visit to the Kiskotuk Coastal Park, a renowned bird-watching area, as well as Kamouraska, one of the most beautiful villages in the province.

Practical details: Since peatland terrain is often wet and sometimes muddy, bring rubber or hiking boots. A raincoat, sun protection, a hat, a water bottle and insect repellent are also highly recommended. This 3-days tour includes accommodation and all snack and meals.

Field trip leader(s): Line Rochefort and Kathy Pouliot (Peatland Ecology Research Group, Université Laval), Stéphanie Boudreau and Marie-Claire LeBlanc (Canadian Sphagnum Peat Moss Association (CSPMA) & Peat and Sustrates Cluster) Departure/Return: Québec City Convention Centre Duration: 3 days Dates: From Friday, June 16, 2023, at 8:30 to Sunday, June 18, 2023 at 16:30

FT POST 6 - MAKING ORGANIC MATTER - COME

Join our hosts -- *The Compost Council of Canada and Englobe* -- for a visit to Englobe's composting facility in Saint-Henri-de-Lévis. In operation for over 40 years, this composting facility – a member of the Compost Quality Alliance (CQA) - processes organic residuals from citizens and businesses, transforming them into nutrient-rich organic matter – compost – for return to Canadian soils. Combined with other Englobe facilities, over 470,000 tonnes of organic residuals were processed in 2021, creating 170,000 tonnes of compost. We'll go for a tour of the facility as well as enjoy a visit to the surrounding area, with a light lunch provided by our hosts.

Field trip leader(s): Susan Entler from the Compost Council of Canada and Englobe Departure/Return: Québec City Convention Centre (An option exists to have a drop-off at the airport) Duration: 1 day Date: Friday, June 16, 2023, from 9:00 to 14:30

TOURISTIC ACTIVITIES

WALKING TOUR OF OLD QUEBEC, A WORLD HERITAGE SITE

Sunday, June 11, 2023, from 14:30 to 16:30 - 35\$ CAD

Meeting point: Québec City Convention Centre, 900 Boulevard Honoré-Mercier

First a visit to the Québec Parliament and its flourishing gardens. A unique structure of architectural style inspired by the expansion of the Louvre in Paris. The tour stops onto Place d'Armes to enjoy its grandiose fountain statute. Close by, the tour continues to the Château Frontenac and its Dufferin Terrasse, a magnificent boardwalk overlooking the St. Lawrence River and offering a breathtaking view. Then is the Seminary of Québec, founded in 1663. Now occupied by the Architecture School of Laval University, this institution is a remarkable collection of buildings erected around enclosed courtyards. Following is the spectacular interior of the Notre-Dame-de-Québec Basilica-Cathedral. Then continuing to the Lower Town, finding ourselves in the middle of Place Royale where Samuel de Champlain founded Ouébec in 1608. Discover the restored houses of merchant families from the New France era, Let's wander into cobblestone streets and historic houses and take a peek at the Royal Battery facing the river for the defense of the city. A ride in the Funicular will bring you back to the upper part of the city. Time to appreciate the St-Lawrence River's panorama and a spectacular view of the lower town from a 45-degree angle.

EVENING AT WENDAKE

Tuesday, June 13, 2023, from 17:00 to 22:30 - 120\$ CAD

Meeting point: Québec City Convention Centre, 900 Boulevard Honoré-Mercier

Located on the Huron-Wendat reservation, the Huron-Wendat Museum is a unique opportunity to discover the history, the culture and the lifestyle of Hurons of the past and of today.

Schedule:

17:00 Departure from the Québec City Convention Centre

17:30 Visit of Huron-Wendat Museum

19:00 Dinner at La Traite Restaurant

22:30 Return at the Québec City Convention Centre

SOCIAL ACTIVITIES

EVENING ICE-BREAKER

Sunday, June 11, 2023, from 19:00 - Free for all participants with confirmation of attendance

The Welcome Reception provides an excellent opportunity to network, meet old friends and colleagues, as well as meet new people as the program begins. A light cocktail will be served during the event.

STUDENT AND YOUNG PROFESSIONNALS MIXER

Monday, June 12,2023, from 19:00 to 21:00 - 20\$ CAD

Looking forward to the RE3 Restore-Reclaim-Rewild Conference in Quebec City to connect with fellow students and young working professionals? Take your networking game to the next level and kick off this conference by joining us on Monday evening at the Murphy's Pub to discuss your studies and latest research with other participants, while snacking on delicious finger foods and enjoying a glass of locally brewed beer.

For Students and Young Professionnals from 18 to 35 years old ONLY

BANQUET RECEPTION

Thursday, June 15, 2020, from 18:00 - 98\$ CAD for registered participants and 125\$ CAD for guests

We are able to offer a special rate of 50\$ CAD for students thanks to financial support of our partners!

Join us for an evening of fun and surprises at the Voltigeurs de Québec Armoury!

On the program:

- A welcome cocktail
- A multi-course menu with local flavour from a renowned chef
- Dance

Blending the very best of Quebec's heritage with the latest design trends, featuring re-invented cutting-edge local cuisine, a great mix to create a unique and memorable evening.

The Painchaud Family group members are all multi instrumentalists and they all have perfect pitch. They will delight you with their highly creative versions of popular and traditional songs, they also bring a wonderful sense of humour that makes them irresistible.

MAIOR EVENTS

WOMEN IN RESTORATION LUNCHEON

Tuesday, June 12, 2023, from 12:00 to 13:00 Room 200D

The Women in Restoration Luncheon will highlight the contributions of remarkable female scientists or practitioners involved in reclamation, restoration or rewilding. Their efforts have been targeted to better understand the ecosystems and how to restore for future generations.

ISHS-IPS ONE-DAY JOINT SYMPOSIUM: PRINCIPLES AND PROCESSES IN CONSERVING AND RESTORING PEATLANDS AND **ORGANIC SOILS USE**

Tuesday, June 13, 2023

Objective: To present the latest developments about principles and processes in conserving and restoring peatlands and organic soils use. Following the RE3 morning plenaries, a first session will address the processes involved in cultivation on organic soils: degradation (wind erosion, drainage and compaction), conservation and reconstruction. The second session will focus on peatland restoration application and results at the industry scale. Finally, the last session will present data supporting the responsible management nature and circularity of growing media use.

FORUM: UN DECADE OF RESTORATION: ADVANCING THE **CANADIAN AGENDA** Thursday, June 15, 2023

Summary: The United Nations Decade on Ecosystem Restoration (2021-2030) calls to action to "prevent, halt and reverse the degradation of ecosystems on every continent and in every ocean." Through ambitious ecological restoration goals that include nature-based solutions for climate adaptation, and the support of human livelihood, we can ultimately achieve the 2030 Agenda for Sustainable Development. Canada needs to be at the forefront of this movement.

Celebrating the launch of this UN Decade and under the themes Reclamation, Restoration and Rewilding of the RE3 Conference, this high-profile event promises to enlighten and inspire. We all have the capacity to contribute. Constraints to ecosystem restoration and priorities need to be identified and actions implemented for the Canadian agenda.

A high segment Plenary Session (in English) will convene experts from high level global secretariats (IUCN, UN Decade, CBD, UNEP, Ramsar, SERI, IPCC) to present short allocutions about how ecological restoration, rewilding, and reclamation can assist in reaching their specific international mission goals. Canadian politicians are also invited to interact with participants.

SCIENTIFIC PROGRAM

Immediately following the plenary speakers, we invite interested conference delegates to join a forum where small participatory groups will discuss the role of ecosystem restoration in the Canadian agenda, especially in the context of both climate mitigation and adaptation and biodiversity conservation (Target 2 of CBD). Forum tables will be organised by themes.

Please, do register under which theme you would be interested to participate in the discussions:

- Forest Ecosystems
- Wetlands, freshwater bodies
- Peatlands
- Urban areas
- Agricultural ecosystems, farmlands, grasslands, shrublands
- Mines, borrow pits, road impacts
- Coastal zones and oceans
- Tundra Arctic

Although most of the discussions will be held in English, there will be the possibility of grouping the participants around a French-speaking table as well.

A document (report) on the results of the discussions will emerge from this forum, in English and in French.

C'est avec fierté que le ministère des Transports et de la Mobilité durable encourage la restauration écologique et participe aux échanges tenus à l'occasion de la conférence RE3 à Québec.



Notre objectif : assurer la mobilité durable tout en contribuant à la préservation de la biodiversité au Québec.

- Restauration des écosystèmes et maintien de leur connectivité.
- Bonification des fonctions écologiques de nos aménagements.



Québec 🚟

SCIENTIFIC PROGRAM

SCIENTIFIC PROGRAM

SUNDAY, JUNE 11, 2023

WELCOMING SPEECH: CHAIR OF RE3

ROOM: 2000A

17:00 - 17:45 Welcoming Speech: Chair of RE3

OPENING LECTURE - EDWARD STRUZIK

ROOM: 2000A

17:45 - 18:30 The Past and Future Arctic. A Geography of Hope and Despair Edward Struzik, Queen's Institute for Energy and Environmental Policy, Canada

POSTER SESSIONS

INDEX OF AUTHORS

OPENING

ROOM: 2000AB

8:30 - 8:45 Opening

REWILDING PLENARY SPEAKER: GARY PRITCHARD ROOM: 2000AB

8:45 - 9:30 Is Western Conservation still harming Indigenous Peoples? Gary L. J. Pritchard, Curve Lake First Nation, Canada

REWILDING PLENARY SPEAKER: MARIE-EVE MARCHAND ROOM: 2000AB

9:30 - 10:15 Bison Belong: Rematriating a keystone species in the heart of North America Marie-Eve Marchand, Buffalo Relations Institute, Canada

CONTRIBUTED SESSION: PEATLAND MANAGEMENT (1 OF 2) ROOM: 205C

Chair: Kathy Pouliot, Peatland Ecology Research Group - Université Laval, Canada

Decomposition response of two Sphagnum sub-genus to phenolic addition in Sphagnum farming Talal Asif , Université Laval, Canada
Environmental controls on actual ET in a peatland altered by a seismic line Maryam Bayatvarkeshi , University of Waterloo, Canada
Best practice for establishing fen paludicultures - Establishment methods, vegetation and yield development Tim Eickenscheidt , Hochschule Weihenstephan-Triesdorf, IÖL, Peatland Science Centre, Germany Matthias Drösler
Integration of restoration within the industrial process at Premier Tech Jacques Gagnon, Premier Tech Horticulture, Canada Frederic Caron
Mapping the hidden peat: converted peatlands and shallow peat soils in Ireland Louis Gilet , Trinity College Dublin, Ireland John Connolly, Lisa Coleman, Terry Morley

CONTRIBUTED SESSION: VEGETATION

ROOM: 2105

Chair: Laura Hjartarson, Université Laval, Canada

10:45 - 11:00	Spread of Reed Canary Grass (Phalaris arundinacea) across eastern North America documented in herbarium and community science data Amanda L. Loder , University of Toronto, Canada Michael Ghodrat, Sarah Finkelstein
11:00 - 11:15	Experimental analysis of the altitudinal distribution limit of the Ghost Antler Lichen at Parc national du Mont-Mégantic in Québec, Canada Christina Rinas , Université de Sherbrooke, Canada
11:15 - 11:30	Revegetating Recently Deglaciated and Disturbed Landscapes Shan Seahra , ERM Consultants Canada, Canada Jessica Lowey
11:30 - 11:45	Riparian vegetational biodiversity and environmental gradients in Southern Ontario created wetlands Rose Simard , Great Lakes Institute for Environmental Research, Canada Catherine Febria
11:45 - 12:00	A NEW EMERGING INVASIVE THREAT TO NORTHEASTERN RICH MESIC FORESTS: MANAGING THE HARDY KIWI VINE (ACTINIDIA ARGUTA) Jessica Toro , Native Habitat Restoration, United States
12:00 - 12:15	Ex situ propagation and reintroduction to areas of origin of plant species Ricardo Vinicio Abril Saltos , Ulniversidad EStatal Amazonica, Ecuador

CONTRIBUTED SESSION: MEETING SPECIFIC RESTORATION CHALLENGES

ROOM: 2000A

Chair: Martin Beaudoin-Nadeau, Viridis Terra International, Canada

10:45 - 11:00	Sandusky Bay restoration using a landscape scale approach to restoring lost ecological functions Tom Denbow , Biohabitats, United States Joseph Berg
11:00 - 11:15	Protecting, restoring and connecting: learning through habitat rehab Rejean Dumas , Fiducie de conservation des écosystèmes de Lanaudière, Canada
11:15 - 11:30	"Hedging" your bioengineering designs why you should be using hedge brush layers Mike Gallant , Kerr Wood Leidal, Canada Pierre Raymond, André Evette, Kathryn Hull, Alan Dodd, Norma Posada, Delphine Jaymond, Marie-Anne Dusz
11:30 - 11:45	Combined effects of inorganic soil multi-contamination and drought on ecological restoration dynamic in a Mediterranean scrubland Alma Heckenroth , Aix Marseille Univ, IRD, LPED, France Lorène Tosini, Hélène Folzer, Manuel Cartereau, Pascale Prudent, Laura March, Laurent Vassalo, Marie-Dominique Salducci, Yoan Labrousse, Isabelle Laffont-Schwob
11:45 - 12:00	Can Removing Topsoil Help with Restoration of Forests and Native Grasslands? An Exploration on a Novel Approach to Ecological Restoration Chris Tenszen , Trace Associates Inc., Canada

ISHS SESSION: YOUNG MINDS SESSION R00M: 204AB

10:45 - 11:00	Introductary remarks Jean Caron , Université Laval, Canada
11:00 - 11:15	Root growth and development in soilless culture - A review Kristopher Criscione , Louisiana State University, United States of America Jeb Fields
11:15 - 11:30	Performance of perennial plants in two growing substrates for stormwater management in bioretention cells Vincent Lachance , Université Laval, Canada Ann-Catherine Laliberté, Charles Goulet, Guillaume Grégoire
11:30 - 11:45	Compost from pruning residues: nutrient dynamics and influence on the microbiological community, an in-depth study Marco Lucchetta , Free University of Bolzano, Italy
11:45 - 12:00	Peat shrinkage during drying according to particle size Stan Durand , Linstitut Agro Rennes Angers, France Pascal Boivin, Jean-Charles Michel
12:00 - 12:04	Evaluating the soil block method and growing media in organic vegetable transplant production Anne Carey , Iowa State University, United States of America Ajay Nair
12:04 - 12:08	Impact of growing media components on the mineralization of nitrogen from a plant-based and an animal-based organic fertilizers Laura Thériault , Berger, Canada Steeve Pepin, Martine Dorais
12:08 - 12:12	Development of substrates made of recycled materials for horticultural production on green roofs Florence Carrier , Université Laval, Canada Ann-Catherine Laliberté, Martine Dorais, Guillaume Grégoire
12:12 - 12:16	Engineered substrates to improve nitrogen, phosphorus, and water retention in nursery container production Henry Gonzalez , Michigan State University, United States of America Rodney T. Fernandez, James Owen, Jacob Shreckhise

PROJETS DE COMPENSATION ET CRÉATION DE MILIEUX HUMIDES

ROOM: 205AB

10:45 - 11:00	Le REM: l'occasion de réaliser des projets de compensation intégrés Elizabeth Boivin , CDPQ infra, Canada
11:00 - 11:15	Approche environnementale intégrée pour compenser-restaurer les milieux naturels à proximité d'un projet d'infrastructure majeur : l'étude de cas du REM Éric Léger , Hatch, Canada
11:15 - 11:30	La restauration et la mise en valeur des milieux naturels au profit de la préservation de la qualité de l'eau potable : initiatives dans le haut bassin de la rivière Saint-Charles Anne-Marie Cantin , Ville de Québec, Canada
11:30 - 11:45	Création de deux grands milieux naturels sur l'île Tekakwitha et restauration de la baie Recreation, à Kahnawà :ke Lucie Labbé , AECOM, Canada
11:45 - 12:00	La naturalisation des bassins de rétention des eaux pluviales en contexte routier : l'expérience du MTMD Marilou Hayes , Ministère des transports et de la mobilité durable, Canada
12:00 - 12:15	Restaurations des habitats aquatiques et terrestres du marais Miller Anaïs Boutin , Éco-Nature Parc de la Rivière-des-Mille-Îles, Canada

SYM-03: CAN-PEAT: CANADA'S PEATLANDS AS NATURE-BASED SOLUTIONS TO CLIMATE CHANGE

ROOM: 2101

Chair: Maria Strack, University of Waterloo, Canada

10:45 - 11:00	Introduction to Can-Peat: Canada's peatlands as nature-based solutions to climate change Kimberly Kleinke , University of Waterloo, Canada Maria Strack
11:00 - 11:15	Boreal forest carbon, water and energy fluxes across North America: from eddy covariance observations to long-term simulations Bo Qu , Université de Montréal, Département de géographie, Centre d'études nordiques, Canada Alexandre Roy, Joe Melton, Oliver Sonnentag
11:15 - 11:30	A compilation of greenhouse gas flux data from restored Canadian peatlands to reduce uncertainty in the potential of peatland restoration as a natural climate solution Kayla Martin , University of Waterloo, Canada Maria Strack
11:30 - 11:45	Using the Canadian Model for Peatlands (CaMP) to understand changes in boreal and temperate peatlands C sink strength: Insights and knowledge gaps Kara Webster , Canadian Forest Service, Canada
11:45 - 12:00	Impacts of fire management practices on forested peatland carbon pools and fluxes in boreal Canada Marissa Davies , University of Waterloo, Canada Kelly Bona, Dan Thompson, Sophie Wilkinson, James Waddington, Maria Strack
12:00 - 12:15	Discussion

SYM-04: DETERMINING THE SUCCESS OF RESTORATION ACTIONS: BEST PRACTICES FOR MONITORING

ROOM: 2104AB

Chair: Mélina Guêné-Nanchen, Université Laval, Canada

10:45 - 11:00	Assessing restoration success under conditions of rapid change Eric Higgs , University of Victoria, Canada
11:00 - 11:15	Measuring Success of Ecological Restoration Projects the Use of Species Diversity and Richness Indices and Other Quantitative Measures Michael Toohill , SER New England, United States

11:15 - 11:30	From bare peat to bog: What is the most relevant set of ecological criteria to assess the restoration of Canadian horticultural peatlands? Gwendal Breton , GRET/PERG Université Laval, Canada Mélina Guêné-Nanchen, Line Rochefort
11:30 - 11:45	Evaluation of Peatland Restoration Outcomes in Alberta's In-Situ Oil Sands Regions Bin Xu , NAIT Centre for Boreal Research, Canada Melanie Bird, Rebekah Ingram, Sarah Darling
11:45 - 12:00	Seeing the Forest for the Trees & the Ecosystems for the Indicators: Comparative Approaches to Measuring Restoration Outcomes Stephen Murphy , University of Waterloo, Canada
12:00 - 12:15	Discussion

SYM-08: PLANNING RESTORATION IN URBAN, AGRICULTURAL AND BOREAL LANDSCAPES IN ORDER TO **OPTIMIZE ECOSYSTEM SERVICES AND BENEFITS TO PEOPLE ROOM: 202**

Chair: Monique Poulin, Université Laval, Canada

10:45 - 11:00	Applying the systematic conservation planning approach to restoration: basic concepts for considering spatial flow of ecosystem services Monique Poulin , Université Laval, Canada
11:00 - 11:15	An application of the Ecosystem ServiceShed concept to systematic conservation planning considering equity Jean-Olivier Goyette, Université Laval, Canada Poliana Mendes, Jérôme Cimon-Morin, Jérôme Dupras, Stéphanie Pellerin, Monique Poulin
11:15 - 11:30	Vacant lot restoration and vegetation management to improve people's access to ecosystem services: a case study in Quebec City Poliana Mendes , Université Laval, Canada Jean-Olivier Goyette, Jérôme Cimon-Morin, Stéphanie Pellerin, Monique Poulin
11:30 - 11:45	From marginal crop fields to natural areas: A framework to support decisions on restoration sites location in agricultural landscapes Gabriela Torchio , Université Laval, Canada Jérôme Cimon-Morin, Stéphanie Pellerin, Poliana Mendes, Jean-Olivier Goyette, Monique Poulin
11:45 - 12:00	Spatial prioritization of habitat restoration efforts for an endangered species: a case study of boreal caribou Pierre-Alexandre Labranche , Université Laval, département des sciences du bois et de la forêt; CEF, Canada Monique Poulin, Jérôme Cimon-Morin
12:00 - 12:15	Discussion

SYM-21: HUMAN AND NATURAL DIMENSIONS OF GREEN INFRASTRUCTURE

ROOM: 206B

Chair: Alison Munson, Université Laval, Canada

10:45 - 11:00	The Human Dimensions of Green Infrastructure Vidya Anderson , University of Toronto Scarborough, Canada
11:00 - 11:15	Mosses for minimalist green roofs: the effects of rooftop exposure, species selection, and lab-grown vs wild-harvested propagule sources Sean Haughian , Nova Scotia Museum, Canada Jeremy Lundholm
11:15 - 11:30	Functional Diversity in Specific Trait Values Enhances the Provision of Key Green Roof Ecosystem Services Amy Heim , Université de Montréal, Canada
11:30 - 11:45	Assessing land-use legacy effects on soil physico-chemical properties in urban parks Michael Paulauskas , Concordia University, Canada
11:45 - 12:00	Learning from Maguire Street: An Experiment on Tree Pit Design in Quebec City Janani Sivarajah , Université Laval, Canada
12:00 - 12:15	Carbon sequestration in the soil-plant system in urban areas Vincent Poirier , Université du Québec en Abitibi-Témiscamingue, Canada Vincent Poirier, Élise Beauregard, Alison Munson

WS-06: SCALING UP ECOLOGICALLY-APPROPRIATE SEED SUPPLY IN CANADA 2.0: TWO-EYED SOLUTIONS TOWARDS 2030

ROOM: 206A

Chair: Donnie McPhee, National Tree seed Centre, NRCAN, Canada Mary Knockwood, CFS/NRCAN, Canada Melissa Spearing, National Tree Seed CentreNRCAN, Canada

10:45 - 12:15WS-06: Scaling Up Ecologically-Appropriate Seed Supply in Canada2.0: Two-Eyed Solutions Towards 2030

This workshop will follow up and seek input on next steps for two major initiatives by Canada's National Tree Seed Centre, 1) results from a 2021-2022 National Native Seed Supply Assessment and 2) stories heard from a cross-Canada Indigenous Seed Collection Program road trip.

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SYM-14: RESTAURATION ÉCOLOGIQUE DES TOURBIÈRES À SPHAIGNES NORD-AMÉRICAINES (PROGRAMME EN FRANÇAIS) ROOM: 205AB

Chair: Gwendal Breton, Université Laval, Canada

13:30 - 13:45	Les communautés végétales des tourbières restaurées au Canada : Une approche comparative avec l'écosystème de référence Gwendal Breton , GRET/PERG Université Laval, Canada Mélina Guêné-Nanchen, Line Rochefort
13:45 - 14:00	Restauration de tourbières avec réintroduction de sphaignes : La diversité en bryophytes suit-elle? Camille Boucher , Groupe de recherche en écologie des tourbières, Université Laval, Canada
14:00 - 14:15	Biodiversité des mares des tourbières : des écosystèmes à restaurer Laura Catalina Riano Pena , Groupe de recherche en écologie des tourbières, Université Laval, Canada
14:15 - 14:30	Restauration hydrologique d'une tourbière ombrotrophe par le blocage d'un canal de drainage de grande dimension Sylvain Jutras , Université Laval, Canada
14:30 - 14:45	Restauration d'un fen affecté par un déversement d'hydrocarbures Francois Quinty , WSP Canada, Canada
14:45 - 15:00	Discussion

CONTRIBUTED SESSION: NOVEL TOOLS FOR RESTORATION PLANNING AND MONITORING

ROOM: 2105

Chair: Anna Dabros, Natural Resources Canada - Canadian Forest Service, Canada

13:30 - 13:45	Growing a Network of Seed Orchards in Southern Ontario Ryan Godfrey , World Wildlife Fund Canada, Canada
13:45 - 14:00	Can ecotones be compositional-based in situ vegetation conservation areas in changing climate? Befkadu Mewded Habtamu , Ethiopian Biodiversity Institute, Ethiopia
14:00 - 14:15	Leveraging novel tools for content analysis and knowledge representation for restoration ecology Tina Heger , Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany Cook Steven, Catherine Febria, Eric Higgs, Jonathan Jeschke, Johannes Kollmann, Daniel Mietchen, Stephen Murphy, Sandra Rojas-Botero, Leonardo H. Teixeira, Bruno Travassos-Britto
14:15 - 14:30	Assessing the Quality of Non-Direct Data Used in Ecological Restoration Project Planning and Monitoring Timothy Lewis , General Dynamics Information Technology, United States Cynthia Collier, Brick Fevold, Craig Palmer, Molly Middlebrook, Louis Blume
14:30 - 14:45	RECOVERY OF THE KIRTLANDS WARBLER: The need for multi- stakeholder partnerships, volunteerism, and seed-based restoration for actioning Species at Risk habitat restoration projects Laura Williamson, GEI Consultants, Canada
14:45 - 15:00	Science at the service of wetland conservation planning in the City of Quebec Julie Deslandes , Ville de Québec, Canada

CONTRIBUTED SESSION: PEATLAND MANAGEMENT (2 OF 2) ROOM: 205C

Chair: Mélina Guêné-Nanchen, Université Laval, Canada

13:30 - 13:45	Simulating greenhouse gas exchanges and ecohydrology for peat
	extraction and restoration
	Hongxing He, McGill University, Canada

13:45 - 14:00 Influence of hydrological connectivity and ditch substrate on nutrient transformations and export during peat harvesting phases in a sub-humid, glaciated, boreal landscape **Mika Little-Devito**, University of Alberta, Canada Kevin Devito, William Shotyk

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	of subarctic Iceland Susanne Claudia Möckel, University of Iceland, Iceland Egill Erlendsson, Elva Björk Benediktsdóttir, Joshua Ratcliffe, Róbert Ívar Arnarsson, Kristín Embla Gu_jónsdóttir, Hlynur Óskarsson, Rattan Lal, Gu_rún Gísladóttir
14:15 - 14:30	International Peatland Society - Contributing Knowledge for Peatland Restoration, Policy and Planning Örjan Berglund , SLU Swedish university of agricultural sciences, Finland John Rieley, Bernd Hofer
14:30 - 14:45	Vegetation recovery and management after wildfire in an ombrotrophic bog in Western Canada Thomas Munson , Munson Ecological ServicesMetroVancouver, Canada Markus Merkens
14:45 - 15:00	Peatland pools: bodies of water of major ecological importance Laura Catalina Riano Pena , Groupe de recherche en écologie des tourbières, Université Laval, Canada

Development of peatlands in the increasingly aeolian environment

ISHS SESSION: NEW AND CURRENTS COMPONENTS IN GROWING MEDIA

ROOM: 204AB

14:00 - 14:15

13:30 - 14:00	Roundtable - The future of peat and alternate resources of growing media: resilience and vulnerability of resources, economical and ecological cost and performances. Pierre-Marc De Champlain , Les Tourbières Berger Ltée, Canada Ka Yeon Jeong, Brian Jackson, Remi Naasz
14:00 - 14:15	Peat-free and peat-reduced growing media for greenhouse petunia (Petunia _ hybrida Vilm.) production Trond Knapp Haraldsen , NIBIO, Norwegian institute of bioeconomy research, Norway Siv Mari Aurdal, Tomasz Leszek Woznicki
14:15 - 14:30	Sustainable and bioactive substrates to enhance nutrient delivery in soilless production systems Kee Woei Ng , Nanyang Technological University, Sierra LeoneSingapore Xiaoyong Pan, Jason White, Xiao Hu, Philip Demokritou, Kee Woei Ng
14:30 - 14:45	Stratified Substrates: A four-year review Jeb Fields, Louisiana State University Agricultural Center (LSU AgCenter), United States of America James Owen, Jr.

SYM-01: MAPPING WETLAND CARBON STOCKS I: FROM MEASUREMENTS AND MODELS TO MAPS

ROOM: 2101

Chair: Michelle Garneau, Université du Québec a Montréal, Canada

13:30 - 13:45	National peatland mapping coupled to hydrological, carbon reporting, and wildfire vulnerability schemes: the Canadian Model for Peatlands (CaMP) approach Dan Thompson , Canadian Forest Service, Canada Kara Webster, Kelly Bona
13:45 - 14:00	Mapping Peatland Carbon and Fluxes in National Parks in Canada Tara Sharma , Parks Canada Agency, Canada Gary Zhang, Kelly Bona, Werner Kurz, Alex MacDonald
14:00 - 14:15	SIIGSOL project: Automating soil mapping in Quebec Province Jean-Daniel Sylvain, Direction de la recherche forestière, Ministère des ressources naturelles du Québec, Canada François Anctil, Évelyne Thiffault, Guillaume Drolet
14:15 - 14:30	Machine Learning Applications in Peatland Analysis Jade Skye , Environment and Climate Change Canada, Canada Joe Melton
14:30 - 14:45	Hidden Carbon: Mapping Soil Organic Carbon in Canada's Boreal Wetlands Kristyn Mayner , Ducks Unlimited Canada, Canada
14:45 - 15:00	Discussion

SYM-09: PLANT TRAIT APPROACHES IN RESTORATION ECOLOGY

ROOM: 2104AB Chair: Anna Dabros, Natural Resources Canada - Canadian Forest Service,

Canada	
13:30 - 13:45	Characterizing peatland restoration success using Sphagnum functional traits Tasha-Leigh Gauthier , University of Waterloo, Canada Maria Strack, Jonathan Price
13:45 - 14:00	Graminoids vary in functional traits, carbon dioxide and methane fluxes in a restored peatland: implications for modeling carbon storage Ellie Goud , Saint Mary's University, Canada Sabrina Touchette, Ian Strachan, Maria Strack

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	functions and services? Isabelle Aubin , Service canadien des forêts - Centre de foresterie des grands lacs, Canada Élise Deschênes
14:15 - 14:30	Assessing changes in peatland plant community functions following seismic line disturbance Christina Bao , University of Waterloo, Canada Goud Ellie, Dabros Anna
14:30 - 14:45	Water level drawdown increases sensitivity of boreal peatland vegetation to climatic variation Eeva-Stiina Tuittila , University of Eastern Finland, Finland Egle Köster, Anna M. Laine-Petäjäkangas, Aino Korrensalo, Janna Barel, Jack Chapman, Harri Vasander
14:45 - 15:00	Evaluating restoration success using a dark diversity approach Élise Deschênes, Centre de Foresterie des Grands Lacs, Canada

14:00 - 14:15

How can trait-based ecology enhance the restoration of ecosystem

SYM-24: URBAN AND NEAR-URBAN ECOLOGICAL RESTORATION: FROM PLANNING TO IMPLEMENTATION ROOM: 206B

Chair: Kelly Jamieson, Toronto and Region Conservation Authority, Canada

13:30 - 13:45	Wetland Restoration in the Watershed: Strategic Planning and Implementation Patrick Esson , Toronto and Region Conservation Authority, Canada
13:45 - 14:00	Integrated Restoration Prioritization: A Multi Discipline Tool for Achieving Natural Resource Planning Objectives Andrew Ramesbottom , Toronto and Region Conservation Authority, Canada
14:00 - 14:15	Integrated Watershed Planning for Building Resilient Urban Ecosystems Melanie Randolph , Toronto and Region Conservation Authority, Canada
14:15 - 14:30	Implementing Effective Compensation Restoration in a Rapidly Urbanizing Landscape Kelly Jamieson , Toronto and Region Conservation Authority, Canada
14:30 - 14:45	Determining Key Performance Indicators of Wetland Restoration in the Greater Toronto Area Caitlin Fortune , Toronto and Region Conservation Authority, Canada
14:45 - 15:00	Restoration Tree Planting in Urban Environments: Challenges and Lessons Learned Ryan Stephenson , Toronto and Region Conservation Authority, Canada

SYM-26: WOMEN IN ECOSYSTEM RESTORATION

ROOM: 2000A

Chair: Asha Hingorani, Canadian Sphagnum Peat Moss Association (CSPMA), Canada

13:30 - 13:45	The road to rebuild peatland after resource extraction? Line Rochefort, GRET/PERG Université Laval, Canada
13:45 - 14:00	Women in Ecosystem Restoration Marieka Chaplin , Nashwaak Watershed Association, Canada
14:00 - 14:15	Julie's Ecological Restoration Journey Julie Pelc , Nature Conservancy of Canada, Canada
14:15 - 14:30	The winding journey of an applied forest ecology researcher Amanda Schoonmaker , Northern Alberta Institute of Technology, Canada
14:30 - 14:45	(Root) Tips for Career Pathways in Ecological Restoration Jenise M. Bauman , Western Washington University, United States of America

WS-01: APPROACHES TO WORKING TOGETHER FOR A SEED STRATEGY ROOTED IN ETHICAL SPACE

ROOM: 206A

Chair: Amy Hall, Carolinian Canada, Canada Sam Whiteye, Carolinian Canada Coalition, Canada Michelle Kanter

13:30 - 15:00 Approaches to working together for a seed strategy rooted in ethical space

Join us to discuss building a seed network within an ethical and safe space framework. We will discuss approaches to building an ethical seed network, opportunities and barriers to scaling up healthy habitat, and our path forward.

Amy Hall, Carolinian Canada Coalition, Canada Amy Hall, Jennifer Nantais

SCIENTIFIC PROGRAM

ATELIER - RESTAURATION ET CONSERVATION DU CAPITAL NATUREL AU QUÉBEC AVEC LES MARCHÉS DU CARBONE ET BIODIVERSITÉ (PROGRAMME EN FRANÇAIS)

ROOM: 205AB

Chair: Martin Beaudoin-Nadeau, Viridis Terra International, Canada

 15:30 - 17:00
 Restauration et conservation du capital naturel au Québec avec les marchés du carbone et biodiversité (Workshop)

 Martin Beaudoin Nadeau, Viridis Terra International, Canada

CONTRIBUTED SESSION: REMOTE SENSSING FOR RESTORATION AND RECLAMATION PLANNING AND MONITORING

ROOM: 205C

Chair: Stéphanie Boudreau, Créneau d'excellence Tourbe et substrats and CSP-MA, Canada

15:30 - 15:45	Multi-scale geospatial tools for monitoring restoration activities on wetland ecosystems in Ireland John Connolly, Trinity College Dublin, Ireland
15:45 - 16:00	Predicting Boreal Forest Reclamation Outcomes Using Disturbance Recovery Models and Remote Sensing Dean Mackenzie , Vertex Resource Group Ltd., Canada
16:00 - 16:15	Multidimensional remote sensing monitoring of manmade restoration and natural evolution by the northwest Mediterranean coastline ecosystem Liyuan Qian , Southwest Jiaotong University, China Sixiang Zhou, Huan Wu
16:15 - 16:30	Use of Small Unmanned Aircraft Systems (sUAS) For Wetland Restoration Monitoring and Vegetation Cover Type Mapping Tom Touchet , AECOM, United States
16:30 - 16:45	Use of high-density LiDAR derived point clouds to monitor Vegetation recovery Dani Degenhardt , Canadian Forest Service, Canada Angeline Van Dongen
16:45 - 17:00	A Remote, Cost-Effective Carbon MRV System for Peatland Re-Wetting Kevin Porter , Terra Motion, United Kingdom Andrew Sowter, Ken Chadder

CONTRIBUTED SESSION: SOCIAL, CULTURAL AND PHILOSOPHICALASPECTS OF RESTORATION, RECLAMATION AND REWILDING

ROOM: 2105

Chair: Laurence Turmel-Courchesne, Université Laval, Canada

15:30 - 15:45	Reclaim, Restore and Rewild our Relationship with Nature: Implementing Rights of Nature in Wetlands Gillian Davies , BSC Group, Inc. and Tufts University Global Development & Environment Institute, United States
15:45 - 16:00	The Rights of Nature Movement: Challenging the Cultural Context for Ecological Restoration, Landscape Design and Land Management Ann Kearsley , Ann Kearsley DesignLandscape Architect, United States
16:00 - 16:15	"What Does this Place Need?" How Ecological Restoration Contributes to Positive Place-Making for Student Practitioners Trevien Stanger , Saint Michael's College , United States
16:15 - 16:30	Benefits and challenges of urban stream restoration during the COVID-19 pandemic Miranda Virtanen , Junction Creek Stewardship Committee, Canada Daniel Campbell
16:30 - 16:45	Growing Future Forests Blaine Pearson , Wilder Climate Solutions, Canada

Julian Caspari

CONTRIBUTED SESSION: URBAN SYSTEMS

ROOM: 206B

Chair: Janani Sivarajah, Université Laval, Département des sciences du bois et de la forêt, Canada

15:30 - 15:45	NovelEco: citizen perceptions of informal urban wild spaces Marcus Collier , Trinity College Dublin, School of Natural Sciences, Ireland
15:45 - 16:00	Greener as We Grow: Edmonton's Strategy to Preserve and Expand their Urban Forest and Natural Areas Katelyn Dunning , O2 Planning and Design, Canada
16:00 - 16:15	Restoring Natural Ecosystem Processes for Species at Risk Habitat in an Urbanized Landscape of the Saskatchewan Grassland Ecosystem Renny Grilz , Meewasin Valley Authority, Canada

16:15 - 16:30	Montreal's riverbank restoration program: an opportunity to adapt to changing conditions while improving biodiversity, ecosystem services and safe access to water in the city's large riverside parks Mélanie Lapointe , Ville de Montréal, Canada
16:30 - 16:45	Water availability and landscape connectivity influence terrestrial plant and macroinvertebrate communities in urban stormwater infrastructures Matisse Petit-Prost , INRS-ETE, Canada Monique Poulin, Isabelle Lavoie
16:45 - 17:00	Winnipeg's National Urban Park: A Grassroot Proposal Where no Roots Grow Jean Trottier , University of Manitoba, Canada

ISHS SESSION: NEW AND CURRENTS COMPONENTS IN GROWING MEDIA

ROOM: 204AB

15:30 - 16:00	Keynote address: Circularity of different growing media use: is there a role for biochar?	
	Bart Vandecasteele , Flanders Research Institute for Agriculture, Fisheries and Food (ILVO)), Belgium	
16:00 - 16:15	Overview and Characterization of Some North American and European Wood Substrate Components Brian Jackson , NC State University, United States of America	
16:15 - 16:30	Influence of Substrate pH on Coleus Growth Brian Whipker , North Carolina State University, United States of America David Logan, Patrick Veazie, Matthew Ballance, Kristin Hicks, W. Garret Owen	
16:30 - 16:45	Characterization of selected growing media for greenhouse-grown strawberries Francois-Simon Robert , Berger Peat Moss, Canada Laura Thériault, Mathieu Allaire, Charland Marc	
16:45 - 17:00	Evaluation of Biochar as a Sustainable Aggregate in Horticultural Growing Media for Greenhouse Production Patrick Veazie , North Carolina State University, United States of America M. Seth Ballance, Kay Yeon Jeong, Brian Whipker	

GENERAL INFORMATION

SCIENTIFIC PROGRAM

POSTER SESSIONS

SYM-10: PLANTS AS FRIENDS, FOES, TOOLS AND KIN: INDIGENOUS PERSPECTIVES ON THE ECOLOGICAL ROLES OF PLANT SPECIES IN RESTORATION

ROOM: 2104AB

Chair: Christine Luckasavitch, Waaseyaa Consulting, Canada

15:30 - 17:00SYM-10: Plants as friends, foes, tools and kin: Indigenous
perspectives on the ecological roles of plant species in restoration

SYM-30: ASSESSING THE STATE OF ECOLOGICAL RESTORATION KNOWLEDGE IN CANADA

ROOM: 202

Chair: Sonia Voicescu, University of Victoria, Canada

15:30 - 15:45	Synthesizing restoration knowledge in Canada Eric Higgs , University of Victoria, Canada
15:45 - 16:00	Ecological Restoration Research in Canada: Who, What, Where, When, Why and How? Tim Alamenciak , University of Waterloo, Canada Dorian Pomezanski
16:00 - 16:15	Deconstructing restoration success: reflections from practitioners and policy makers in Canada Sonia Voicescu , University of Victoria, Canada
16:15 - 16:30	Yelling into the void: barriers to knowledge exchange for restoration Alina Fisher , University of Victoria, Canada
16:30 - 16:45	Global restoration tools: How effective are we at disseminating knowledge that practitioners need? Nancy Shackelford , University of Victoria, Canada Emma Ladouceur
16:45 - 17:00	Knowledge Synthesis: Thinking through Evidence and Principles

SCIENTIFIC PROGRAM

WS-02: DEVELOPING A COLLABORATIVE FRAMEWORK FOR A NATIONAL NATIVE SEED STRATEGY (NNSS)

ROOM: 206A

Chair: Tracey Etwell, Canadian Wildlife Federation, Canada Stefan Webber Carolyn Callaghan

15:30 - 17:00 WS-02: Developing a Collaborative Framework for a National Native Seed Strategy (NNSS)

In this workshop, we will discuss priority issues to be considered for a National Native Seed Strategy (NNSS) for Canada such as: strategy development, barriers faced by native seed growers, what is needed to increase the capacity of native plant growers, ways to broaden support for a seed strategy, and recommendations for how to frame it.

WS-04: MAPPING WETLAND CARBON STOCKS II: ESTIMATING AND UPSCALING CARBON STOCKS R00M: 2101

Chair: Michelle Garneau, Université du Québec a Montréal, Canada Nicole Sanderson, Université du Québec à Montréal | Geotop, Canada Gabriel Magnan, Centre Geotop, UQAM, Canada

15:30 - 17:00 WS-04: Mapping Wetland Carbon Stocks II: Estimating and Upscaling Carbon Stocks

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TUESDAY, JUNE 13, 2023

WELCOMING WORDS

ROOM: 2000AB

8:30 - 8:45 Welcoming words

RECLAMATION PLENARY SPEAKER: CARLA WYTRYKUSH ROOM: 2000AB

8:45 - 9:30 Title coming soon Carla Wytrykush, Syncrude Research and Developmen, Canada

RECLAMATION PLENARY SPEAKER: **IACYNTHE** DESSUREAULT-ROMPRÉ

ROOM: 2000AB

9:30 - 10:15 Sustainable vegetable crop production on agricultural peatland: mission possible? Jacynthe Dessureault-Rompré, Université Laval, Canada lean Caron

ATELIER - BESOIN URGENT DE LA RESTAURATION DURABLE DES ÉCOSYSTÈMES NATURELS ET PRODUCTIFS POUR LUTTER CONTRE LES CRISES CLIMATIQUES ET ÉCOLOGIQUES DANS LES PAYS EN VOIE DE DÉVELOPPEMENT (PROGRAMME EN FRANÇAIS)

ROOM: 205AB

Chair: Martin Beaudoin-Nadeau, Viridis Terra International, Canada

10:45 - 12:15 Besoin urgent de la restauration durable des écosystèmes naturels et productifs pour lutter contre les crises climatiques et écologiques dans les pays en voie de développement (Workshop) Martin Beaudoin Nadeau, Viridis Terra International, Canada

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CONTRIBUTED SESSION: ECONOMICS OF RESTORATION AND RECLAMATION

ROOM: 2105

Chair: Nigel Finney, Ontario Society of Ecological Restoration, Canada

10:45 - 11:00	Restoring degraded land by connecting investors to farmers all over the world: the Integrated Forest Landscape Restoration (IFLR) approach Leonie Cote , Viridis Terra International, Canada Benoit Limoges
11:00 - 11:15	What is holding up progress in countering ecosystem decline and infrastructure service failure with natural asset management? Sawroop Sandhu , University of Waterloo, Canada Michael Drescher
11:15 - 11:30	Linking natural asset management and ecological restoration Margot Ursic , Grounded Solutions Services Ltd., Canada
11:30 - 11:45	A Proposed Framework for a Regenerative Ecological Restoration Christopher Streb , Biohabitats, United States
11:45 - 12:00	Wetland Restoration Costs Analysis: Findings, Challenges, and Recommendations for Refinement Alexandra Wolfe , Massachusetts Department of Fish and Game, United States Aisling O'Shea

CONTRIBUTED SESSION: RESTORATION, RECLAMATION AND REWILDING IN CANADA'S OIL SANDS REGION ROOM: 2068

Chair: Marissa Davies, University of Waterloo, Canada	
10:45 - 11:00	Planning for Reclamation, Restoration and Rewilding isn't random, the Canadian Oil Sands Experience Jack O'Neill , Pathways Alliance, COSIA, Canada
11:00 - 11:15	The impacts of oil and gas development on boreal peatland carbon emissions and removals Kelly Bona , Environment and Climate Change Canada, Canada Lyna Lapointe-Elmrabti, Daniel Aydalla, Douglas MacDonald, Gary Zhang, Werner Kurz
11:15 - 11:30	Vegetation recovery on low impact seismic lines over eight-year period in boreal uplands of northern Alberta Anna Dabros , Natural Resources Canada - Canadian Forest Service, Canada Kellina Higgins
11:30 - 11:45	Impacts of soil mounding on ground microtopography along seismic lines in boreal peatlands of Alberta (Canada) Jaime Pinzon , Natural Resources Canada - Canadian Forest Service, Canada Anna Dabros, Philip Hoffman

CONTRIBUTED SESSION: RIVER AND WETLAND RESTORATION

ROOM: 2104AB

Chair: Christian Lenhart, University of Minnesota and The Nature Conservancy, United States Of America

10:45 - 11:00	Reclaiming the River: Tekakwitha Island and Bay Restoration Project Cole Delisle , Mohawk Council of Kahnawa:ke - Kahnawake Environment Protection Office, Canada
11:00 - 11:15	How much space does a river need? Concepts and Approaches from Floodplain Restoration and Management in the Pacific Northwest, USA Nick Legg , Wolf Water Resources, United States
11:15 - 11:30	Restoration of 1,000 Acres of Columbia River Floodplain - Scaling Up to Implement Complex, High-Risk, Climate-Resilient Restoration at Steigerwald National Wildlife Refuge Curtis Loeb , Wolf Water Resources, United States Chris Collins
11:30 - 11:45	Restoration and Ecological Uplift of Teaneck Creek Park within Bergen County's Overpeck County Park - From an Abandoned Rubble Fill to a Sand Seepage Wetland Joseph Berg , Biohabitats, United States
11:45 - 12:00	Impacts on wetland hydrology of human activities that induce lower groundwater levels - A review Marie Larocque , Université du Québec à Montréal, Canada Sabrina Bruneau
12:00 - 12:15	The effects of long-term drainage and short-term restoration on DOC concentrations and optical properties in the Baijianghe Peatland Zucheng Wang , Northeast Normal University, China Zhiwei Xu

ISHS SESSION: CIRCULARITY OF GROWING MEDIA USE: RECYCLING OF COMPONENTS, REUSE OF GROWING MEDIA ROOM: 204AB

10:45 - 11:15	Keynote address: Developments in the compost manufacturing industry in Canada and Globally Susan Antler , Compost Council of Canada, Canada
11:15 - 11:30	North American and European Conifer Species Evaluated for Use as Wood Components in Growing Media: A mini review Jackson Bobo , North Carolina State University, United States of America Brian Jackson

11:30 - 11:45	Effects of compost fertility on the growth, yield, and nutrient content of container grown lettuce (Lactuca sativa) James Altland, United States Department of Agriculture (USDA) – Agricultural Research Service (ARS) – Application Technology Research Unit (ATRU), United States of America
	Melodie Floom, Fred Michel, Uttara Samarakoon, Peter Ling
11:45 - 12:00	Characterisation of Peat-Free Growing Media to Facilitate The Transition to Peat-Free Horticulture
	Raghavendra Prasad, Royal Horticultural Society, United Kingdom
	Marc Redmile-Gordon. Mark Gush. Alistair Griffiths
	ויומו בתפטווווופ-טטוטטוו, ויומוג טטצוו, אווצנמון טוווונווצ

SYM-07: OLD PEAT, NEW VOICES: FRONTIERS IN GLOBAL PEATLAND RESEARCH FROM EARLY CAREER RESEARCHERS R00M: 2101

Chair: Meike Lemmer, Peatland Science Centre (HSWT); Peatland ECR Action Team, Germany

10:45 - 11:00	Wetland reclamation through the lens of coexistence theory Ellie Goud , Saint Mary's University, Canada
11:00 - 11:15	Peat extraction in Canada: understanding the effect of sector age and hydrological conditions on carbon emissions Miranda Hunter , University of Waterloo, Canada Laura Clark, Rebecca Frei, Ian Strachan, David Olefeldt, Nigel Roulet, Maria Strack
11:15 - 11:30	Impact of birch encroachment on carbon- and water cycling in a rewetted peat extraction area Carla Welpelo , Thünen-Institute of Climate-Smart Agriculture, Germany Bärbel Tiemeyer, Maren Dubbert, Alexander Knohl, Arndt Piayda
11:30 - 11:45	Paludiculture as a nature-based solution for peatlands results of GHG mitigation potentials in fen peatlands of southern Germany Carla Bockermann , University of Applied Sciences Weihenstephan- Triesdorf, Germany Tim Eickenscheidt, Matthias Drösler
11:45 - 12:00	Paludiculture supports biodiversity and conservation in rewetted peatlands Hanna Martens , Paragon Soil and Environmental Consulting, Canada

SYM-18: ROAD DECOMMISSIONING: STEP BACK TO LIMIT OUR IMPACTS

ROOM: 2000A

Chair: Alison Munson, Université Laval, Canada

10:45 - 11:00	Best management practices for low-use forest roads decommissioning Sylvain Jutras , Université Laval, Canada
11:00 - 11:15	End of the road: How forest road characteristics and decommissioning shape road use by large mammals Martin-Hugues St-Laurent , Université du Québec à Rimouski, Canada Rebecca Lacerte, Fabien St-Pierre, Mathieu Leblond, Pierre Drapeau
11:15 - 11:30	Restoration of tree cover on forest roads for caribou conservation in Quebec- Overview of two research trials Clémentine Pernot , Université Laval, Canada Julie Barrette, Alison Munson
11:30 - 11:45	Tested approaches to restore mineral roads in post-production peatlands Marion Tétégan Simon , Valores - Research Institute, Canada Laurent Daou
11:45 - 12:00	Various techniques for road decommissioning in peatlands Kathy Pouliot , Peatland Ecology Research Group - Université Laval, Canada Line Rochefort
12:00 - 12:15	Discussion

SYM-23: TIDAL WETLAND RESTORATION: NATURE BASED SOLUTIONS AND BLUE CARBON

ROOM: 205C

Chair: Jeremy Lundholm, Saint Mary's University, Canada

10:45 - 11:00	Tidal wetland restoration in the upper Bay of Fundy Tony Bowron , CB Wetlands and Environmental Specialists, Canada Danika van Proosdij, Jennie Graham, Jeremy Lundholm
11:00 - 11:15	The role of sediment accretion in rapid carbon input during tidal wetland restoration Jeremy Lundholm , TransCoastal Adaptations, Saint Mary's University, Canada Danika van Proosdij, Tony Bowron, Jennie Graham, Kendra Sampson
11:15 - 11:30	Mapping sediment accretion patterns during tidal wetland restoration Samantha Lewis , CB Wetlands and Environmental Specialists, Canada Tony Bowron, Danika van Proosdij, Jeremy Lundholm
11:30 - 11:45	Predicting organic carbon concentrations across tidal marshes: effects of mycorrhizal colonization, vegetation type and substrate depth Kayla Williams , TransCoastal Adaptations, Saint Mary's University, Canada Kendra Sampson, Danika van Proosdij, Allison Walker, Jeremy Lundholm, Tony Bowron
11:45 - 12:00	Analyzing ecological and sociological process among restoration of dyked marshes, the DPM project Sébastien Gallet , Université de Brest, France Julien Pétillon, Alexandre Carpentier, Aurélien Ridel, Manuel Salugueiro Simon, Marion Bourhis, Régis Gallais, Anthony Sturbois, Guillaume Gélinaud, Célia Dèbre, Sébastien Gallet

SYM-29: INTERNATIONAL SYMPOSIUM ON GROWING MEDIA, COMPOST UTILIZATION AND SUBSTRATE ANALYSIS FOR SOILLESS CULTIVATION (1 OF 3)

ROOM: 202

10:45 - 11:15	Principles and processes in conserving and restoring cultivated organic soils: promising avenues Jean Caron, Université Laval, Canada Alexis Gloutney, Alain Rousseau, Geneviève Montminy, Raphaël Deragon, Carole Boily, Diane Bulot, Karolane Bourdon, Mathieu Rémy, Vincent Grégoire, Félix L'Heureux Bilodeau, Soumaila Kanga Idé, Yelena Esther Gomez Lara, Andrés Felipe Silva Dimaté, Saba Daeichin, Claude Bernard, Nicolas Shooner, Cedrick Victoir Guedessou, Charles Frenette-Vallières, Josée Fortin, Nicholas Lefebvre, Christophe Libbrecht, Moranne Béliveau, Renel L'Hérisson, Jacynthe Dessureault-Rompré
11:15 - 11:30	Saltation and aerosol suspension over cultivated histosols in southern Quebec Charles Frenette-Vallières , Université Laval, Canada Jean Caron, Daniel Campbell
11:30 - 11:34	Discriminating stratigraphic layers of cultivated organic soils using proximal sensors Raphaël Deragon , Université Laval, Canada Nicholas Lefebvre, Budiman Minasny, Jean Caron
11:34 - 11:38	The impact of biomass additions on a cultivated organic soil for the development of a comprehensive soil management model Keegan Smith , Université Laval, Canada
11:38 - 11:42	Evolution of physical properties of a cultivated organic soil drained by drainage trench Yelena Esther Gomez Lara , Université Laval, Canada Jean Caron, Jonathan Lafond, Silvio Jose Gumiere
11:42 - 11:46	Erodibility of an organic soil: the case in Montérégie, Quebec, Canada Soumaila Kanga Idé , Université Laval, Canada
11:46 - 11:50	Assessing the Local Impact of Windbreaks on Reducing Organic Soil Loss by Wind Erosion Saba Daeichin , Université Laval, Canada
11:50 - 11:54	Carbon dioxide emission from organic soil amended with straw and wood chips Félix L'Heureux Bilodeau , Université Laval, Canada
11:54 - 11:58	Aggregate size distribution of organic soil eroded by wind Andrés Felipe Silva Dimaté , Université Laval, Canada Alain Rousseau, Jean Caron

SYM-31: LEARNINGS FROM AND OPPORTUNITIES FOR INDIGENOUS-ORIENTED ECOLOGICAL RESTORATION AND **REHABILITATION IN SE CANADA AND NE USA**

ROOM: 206A

Chair: James Aronson, Ecological Health Network, United States Darren Ranco, University of Maine, United States Of America

10:45 - 11:00	Landback and rematriation across Wabanakik: Towards care-taking and restoration Darren Ranco , University of Maine, United States
11:00 - 11:15	Wabanaki plant gathering in Acadia NP: Mobilizing Indigenous Knowledge to restore traditional sweet grass harvesting Suzanne Greenlaw , University of Maine, United States Michelle Baumflek
11:15 - 11:30	Spirit of Ratinonsaunee Agriculture Terrylynn Brant , Mohawk First Nation, Canada
11:30 - 11:45	Sacred Hoop Equestrian Centre: An ecocultural restoration project of the Kichesipirini Algonquin First Nation Paula LaPierre , Kichesipirini Algonquin First Nation, Canada
11:45 - 12:15	Discussion

CONTRIBUTED SESSION: NATURE-BASED SOLUTIONS

ROOM: 2105

Chair: Guillaume Grégoire, Université Laval, Canada

13:30 - 13:45	Carbone boréal: approaches to restore the carbon sink ecosystem service of boreal lichen woodlands Patrick Faubert , Université du Québec à Chicoutimi, Canada Sylvie Bouchard, Olivier Fradette, Charles Marty, Maxime Paré, Claude Villeneuve
13:45 - 14:00	Rethinking the potential of wetlands as nature-based climate solutions using different CO2 equivalent metrics and models Shizhou Ma , University of Saskatchewan, Canada Irena Creed, Pascal Badiou
14:00 - 14:15	Peatland Restoration in MN as a state-level climate mitigation strategy Kristen Blann , The Nature Conservancy, United States Christian Lenhart, Maya Swope, Anna Kottkamp, Ailene Ettinger, Mark Felice
14:15 - 14:30	CO2 accumulation in restored peatlands reporting from Northern Europe Anna-Helena Purre , Tallinn University, Estonia Mati Ilomets
14:30 - 14:45	Mitigation of greenhouse gas emissions from German bog peatlands Bärbel Tiemeyer , Thünen-Institute of Climate-Smart Agriculture, Germany Christian Brümmer, Ullrich Dettmann, Dominik Düvel, Sebastian Heller, Liv Offermanns, Jan Oestmann, Arndt Piavda, Carla Welpelo

GENERAL INFORMATION

CONTRIBUTED SESSION: RESTORATION OF COASTAL WETLANDS

ROOM: 205C

Chair: Jeremy Lundholm, Saint Mary's University, Canada

13:30 - 13:45	Eelgrass : phytoremediation and blue carbon potential in coastal sediments Cloé Falcoz , UQAR-ISMER, Canada Richard Saint-Louis, Julie Carrière, Mathieu Cusson
13:45 - 14:00	Watson Park Shoreline Erosion Mitigation and Coastal Resiliency Project - Expanding the State of Salt Marsh Restoration in Massachusetts Adam Finkle , Woods Hole Group, United States
14:00 - 14:15	Phytohormonal control of mangrove root growth response to variation in soil bulk density Anne Ola , Université Laval, University of Queensland, Canada Ian C. Dodd, Catherine E. Lovelock
14:15 - 14:30	How does texture of added sediment affect carbon sequestration of restored coastal salt marshes? Madeleine Meadows-McDonnell , University of Connecticut, United States Nicolette Nelson, Ashley Helton, Madeline Kollegger, Franco Gigliotti, Chris Elphick, Beth Lawrence
14:30 - 14:45	Coastal Restoration Challenges: Considerations for decision- making and investment of funds Aisling O'Shea , Massachusetts Department of Fish and Game, United States Elisabeth Cianciola
14:45 - 15:00	Cutting Edge Resiliancy for Salt Marsh Restoration: From Construction Methodologies to Strategic Design Considerations from a Certified Ecological Restoration Practitioner's Perspective Seth Wilkinson , Wilkinson Ecological Design, United States

CONTRIBUTED SESSION: RESTORATION PLANNING AND MONITORING

ROOM: 206B

Chair: Jacynthe Dessureault-Rompré, Laval University, Canada

13:30 - 13:45	Building Your Restoration Team: How Teamwork, Connection, and Collaboration Lead to Success Chris Tenszen , Trace Associates Inc., Canada
13:45 - 14:00	How practice and research create the theoretical building blocks of ecological restoration Bruno Travassos-Britto , University of Sao Paolo, Brazil Tina Heger, Jonathan Jeschke, Leonardo H. Teixeira, Sandra Rojas-Botero, Johannes Kollmann, Daniel Mietchen
14:00 - 14:15	Function-based Wetland Assessment to inform Restoration Jessica Lowey, ERM Consultants Canada, Canada
14:15 - 14:30	Development of a Freshwater Wetland Restoration Site Identification and Prioritization Approach for Massachusetts, USA Elisabeth Cianciola , Massachusetts Department of Fish and Game, United States Aisling O'Shea
14:30 - 14:45	The Interagency Ecological Restoration Quality Committee (IERQC) - Advancing Applications of Quality Assurance in Ecological Restoration Across the Laurentian Great Lakes Brick Fevold , General Dynamics Information Technology, United States Louis Blume, Timothy Lewis, Craig Palmer, Molly Middlebrook
14:45 - 15:00	Demonstrating the Importance of Indicator Thresholds for Wetland Restoration Monitoring. Applying International Standards to Provincial Policy. Joelyn Kozar, Barr Enginieering and Environmental Science Canada Ltd., Canada

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ISHS SESSION: ANALYTICAL METHODS GROWING MEDIA (BIOLOGICAL, CHEMICAL, PHYSICAL) AND MANAGING BENEFICIAL AND HARMFUL ORGANISMS IN GROWING MEDIA

ROOM: 204AB

13:30 - 14:00	Keynote address: Concept based mapping as a tool to disentangle biological properties and interactivities in research on growing media and hydroponics Beatrix Waechter Alsanius , Swedish University of Agricultural Sciences (SLU), Sweden Sammar Khalil, Anna Rosenberg
	Sammar Kindili, Alina Rusenberg
14:00 - 14:15	Plant and microbial growth as affected by growing media interacted with spent mushroom compost Samar Khalil , Biosystem och teknologi, Swedish University of Agricultural Sciences, Sweden
	0
14:15 - 14:30	Application of Microbiological Knowledge in Growing Media based Cultivation Systems Chris Blok , Wageningen UR Greenhouse Horticulture, Netherlands Marta Streminska, Annelein Meisner, Alexander Boedjin, Karel de Bruijn
14:30 - 14:45	Establishing optimal nutrient solution compositions for watermelon cultivation in open or closed soilless crops Dimitrios Savvas , Agricultural University of Athens, Greece Eirini Xaxiri, Andreos Georgiou, Evangelos Giannothanasis, Georgia Ntatsi

SYM-02: BRIDGING THE KNOWLEDGE GAPS IN TEMPERATE PEATLAND SWAMPS: PAST, PRESENT, AND FUTURE

ROOM: 2104AB

Chair: Megan Schmidt, University of Waterloo, Canada Oluwabamise Afolabi, University of Waterloo, Canada

13:30 - 14:00	The value of northern swamps as natural climate solutions Scott J. Davidson , University of Plymouth, United Kingdom
14:00 - 14:15	The developmental history and peat accumulation of the largest swamp in southern Ontario, Canada Eunji Byun , Yonsei University, Korea, Republic of (South Korea) Emily Dazé, Sarah Finkelstein
14:15 - 14:30	Secrets of the swamp: A synoptic study of carbon cycling in southern Ontario swamps Megan Schmidt , University of Waterloo, Canada Oluwabamise Afolabi, Veronica Santia, Kristen Olazo, Samantha Price, Harry Kumbhani, Isabelle Marincic, Maria Strack
14:30 - 14:45	The carbon dynamics of temperate swamps under a changing climate Oluwabamise Afolabi , University of Waterloo, Canada Hongxing He, Maria Strack
14:45 - 15:00	Progress and next steps restoring forested peatlands in the Great Dismal Swamp National Wildlife Refuge, Virginia and North Carolina, U.S.A Frederic Wurster , U.S. Fish and Wildlife Service, United States

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ROOM: 205AB

Chair: Stéphane Valois, MELCCFP, Canada

13:30 - 13:45	Trajectoire et défis de l'hydrogéomorphologie au QuébecOn the trajectory and challenges of hydrogeomorphology in Québec Thomas Buffin-Bélanger , Université du Québec à Rimouski, Canada
13:45 - 14:00	Développement d'un indice automatisé pour évaluer l'état hydrogéomorphologique des cours d'eau du QuébecDevelopment of an automated index for assessing the hydromorphological state of Quebec's watercourses Maxime Boivin , Université du Québec à Chicoutimi, Canada
	Johan Bérubé, Véronique Simard, Buffin-Bélanger Thomas, Pascale Biron
14:00 - 14:15	Restauration des processus hydrogéomorphologiques 25 ans après la crue majeure du déluge du Saguenay, Québec Mise en place d'un suivi régional dans l'Est-Du-Québec Hydrogeomorphological processes restoration 25 years after the major Saguenay flood event, Quebec -
	Implementation of regional monitoring in Eastern Quebec Maxime Boivin, Université du Québec à Chicoutimi, Canada Janie Vin-Deslauriers, Bouchard Marianne, Simon Tremblay, Johan Bérubé, Thomas Buffin-Bélanger, Guillaume Fantino
14:15 - 14:30	Enjeu de restauration d'un lac fluvial : le cas particulier du lac Saint- Pierre (fleuve Saint-Laurent) The restauration issue of a large fluvial lake: the case study of Lake Saint-Pierre (St-Lawrence River) Philippe Brodeur , Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs du Québec, Canada Marianne Théberge
14:30 - 14:45	Restauration de prairies alluviales: enjeux conceptuels et opérationnels pour modéliser les trajectoires de restauration de la végétation Restoration of floodplain grasslands : conceptual and operational issues for modelling vegetation trajectories Didier Alard , Université de Bordeaux, France Marie-Lise Benot, Emmanuel Corcket, Lilian Marchand
14:45 - 15:00	FLAG : Un projet sur les freins et leviers pour le développement du génie végétal au Québec FLAG: A project on the brakes and levers for the development of soil water bioengineering in Quebec André Evette , Université Grenoble Alpes, INRAE, LESSEM, F-38402, France
	Monique Poulin, Marylse Cottet, Clémence Moreau

SYM-16: RESTORATION OF BOREAL PEATLANDS IN THE IN-SITU OIL SANDS REGIONS IN ALBERTA

ROOM: 2101

Chair: Bin Xu, Northern Alberta Institute of Technology, Canada

13:30 - 13:45	Restoration of a padded well site using complete pad removal with donor moss transfer: site progress after seven years Melanie Bird , NAIT Centre for Boreal Research, Canada Bin Xu
13:45 - 14:00	Creating fen vegetation initiation conditions on a remnant in-situ well pad: Early trends in environmental and vegetation dynamics Murdoch McKinnon , University of Waterloo, Geography & Environmental Management, Canada Felix Nwaishi, Bin Xu, Melanie Bird, Richard Petrone
14:00 - 14:15	Restoration of a Sphagnum-dominated peatland disturbed by a mineral road Christine Isabel , Écogénie inc., Canada
14:15 - 14:30	Restoration of a plant community with potential for peat accumulation on the mineral substrate of a peatland disturbed by a road Pascal Guérin , WSP Canada Inc., Canada
14:30 - 14:45	Alternative Road Construction to Reduce Peatland Water Flow Obstruction Terry Osko , Circle T Consulting, Inc., Canada
14:45 - 15:00	Linear Feature Restoration in Boreal Peatland: Seismic Lines Ba Thuong Le , Northern Alberta Institute of Technology , Canada

SYM-29: INTERNATIONAL SYMPOSIUM ON GROWING MEDIA, COMPOST UTILIZATION AND SUBSTRATE ANALYSIS FOR SOILLESS CULTIVATION (2 OF 3)

ROOM: 202

13:30 - 14:00	The ecological restoration of Canadian peatlands Line Rochefort, Université Laval, Canada Claire Boismenu, Line Rochefort
14:00 - 14:15	How ecologically similar is the vegetation of a restored Sphagnum- dominated peatland from that of a natural bog? A comparative approach with reference ecosystem Gwendal Breton , GRET/PERG Université Laval, Canada Mélina Guêné-Nanchen, Line Rochefort

	Measure of Restoration Success Ian Strachan, Queen's University, Canada Maria Strack, Kelly Nugent, Scott MacDonald, Nigel Roulet, Line Rochefort
14:30 - 14:45	Peatland restoration with Sphagnum reintroduction: Does bryophyte diversity follow? Camille Boucher , Groupe de recherche en écologie des tourbières, Université Laval, Canada
14:45 - 15:00	Improving the carbon sequestration and biodiversity potential of vegetated post-industrial peatlands Pierre-Olivier Jean , Premier Tech Horticulture, Canada Jacques Gagnon

The Return of Peatland Greenhouse Gas and Carbon Function a

SYM-32: HOLISTIC ECOLOGICAL RESTORATION. FOUR KEY ELEMENTS AND THE WAY FORWARD.

ROOM: 206A

14:15 - 14:30

Chair: Katherine Lawless, Huron University College, Canada

13:30 - 13:45	Soil Health is Human Health: Implications for Restoration and Rewilding Katherine Lawless , Huron University College, Canada
13:45 - 14:00	Restoration seed and plant material supply chains are complex social networks Eve Allen , Ecological Health Network, United States of America
14:00 - 14:15	Ecological restoration as a social movement in time of overshoot: seeking critical collaborations Matthew Burke , University of Vermont, United States
14:15 - 14:30	The trouble with rewilding: a need for holistic ecological restoration James Aronson, Ecological Health Network, CCSD, Missouri Botanical Garden, United States Adam Cross, Eve Allen, Laura Orlando, Neva Goodwin, Matthew Burke, Andre Clewell
14:30 - 15:00	Discussion

WK-27: APPLIED RESEARCHERS TOP FIVE LIST OF PRACTICES THAT SUPPORT THE RETURN OF FORESTS IN INDUSTRIALLY DISTURBED SITES

ROOM: 2000A

Chair: Amanda Schoonmaker, NAIT, Canada Chibuike Chigbo

Mark Baah-Archeamfour

13:30 - 13:45	Best practice honorable mention: cluster planting as a technique to getting the high-density benefits without busting the bank Amanda Schoonmaker , Northern Alberta Institute of Technology, Canada
13:45 - 14:00	Best practice 5: plant as much as you can afford Schoonmaker Amanda , Northern Alberta Institute of Technology, Canada
14:00 - 14:15	Best practice 4: stop picking at it, why less is more when it comes to weed management Amanda Schoonmaker , Northern Alberta Institute of Technology , Canada
14:15 - 14:30	Best practice 3: don't let the grass run wild Amanda Schoonmaker , Northern Alberta Institute of Technology, Canada
14:30 - 14:45	Best practice 2: rough and loose all the time Amanda Schoonmaker , Northern Alberta Institute of Technology, Canada
14:45 - 15:00	Discussion

CONTRIBUTED SESSION: LOCAL AND TRADITIONAL KNOWLEDGE FOR CONSERVATION AND RESTORATION PLANNING

ROOM: 205C

Chair: Thomas Munson, Munson Ecological Services, Canada

15:30 - 15:45	Generate, Explore, Consolidate: developing a systems-thinking visioning approach for tropical peatland restoration in Indonesia Andrea Rawluk , University of Melbourne, Australia Tessa Toumbourou
15:45 - 16:00	Blueberry River First Nations' Restoration Framework Mae Whyte , Blueberry River First Nations, Canada Darian Weber

16:00 - 16:15	A Journey Towards Reclaiming Homelands after Oil Sands
	Extraction in the Fort McKay First Nation Traditional Territory,
	Treaty 8, Alberta
	Christine Daly, University of Calgary, Canada
	Christine Daly, Bori Arrobo, Gillian Donald, Clara Mercer, Marie Boucher,
	Gabe Desjarlais, Joe Grandjambe, Martha Grandjambe, Ryan Grandjambe,
	Dora L'Hommecourt, James Ladouceur, Douglass Mercer, Edith Orr,
	Audrey Redcrow, Scotty Stewart, Alexandra Davies Post, Dan McCarthy,
	S. Craig Gerlach, David A. Lertzman
16:15 - 16:30	Working together to recover native trout in Alberta; a case study on the Alberta Native Trout Collaborative's habitat restoration program
	Amy McLeod, Alberta Riparian Habitat Management Society, Canada

CONTRIBUTED SESSION: WETLAND BIOGEOCHEMISTRY R00M: 2105

Chair: Anne Ola, Université Laval, Canada

15:30 - 15:45	CONSTRUCTED WETLANDS AS A SUSTAINABLE SOLUTION FOR RECLAIMING SUGAR MILLS EFFLUENT Safia Ahmed , Quiad-i-Azam University , Pakistan Babar Ali, Mahwish Ali, Safia Ahmed
15:45 - 16:00	Plant-plant interaction modifies boreal peatland vegetation dynamics under warmer and elevated nitrogen: a case study in eastern Canada boreal bog Ba Thuong Le , Northern Alberta Institute of Technology, Canada
16:00 - 16:15	Ecosystem services of European wetlands and their indicators Liisa Maanavilja, Geological Survey of Finland, Finland Anna M. Laine-Petäjäkangas, Tiina Törmänen, Camilla Bertolini, Eeva-Stiina Tuittila
16:15 - 16:30	Carbon Alchemy in Pocosin Peatlands as Drivers of Climate Change Services Curtis Richardson , Duke University Wetland Center, United States Neal Flanagan, Mengchi Ho, Hongjun Wang
16:30 - 16:45	Influence of the water table and drainage on nitrous oxide fluxes in a tropical Andean peatland Yeraldin Roa Medina , Pontificia universidad javeriana, Colombia
16:45 - 17:00	The geography of peatland pool biogeochemistry Julie Talbot , Université de Montréal, Canada Julien Arsenault, Jean-François Lapierre

ISHS SESSION: ANALYTICAL METHODS GROWING MEDIA (BIOLOGICAL, CHEMICAL, PHYSICAL)

ROOM: 204AB

15:30 - 16:00	Keynote address: Gold standards for substrate characterization Ryan Stewart , Virginia Tech, United States of America
16:00 - 16:15	Quantifying functional pore sizes in pine bark growing media Caroline Wolcott , Virginia Polytechnic Institute and State University, United States of America Ryan Stewart, James Owen
16:15 - 16:30	Water retention properties of wood fiber based growing media and their impact on irrigation strategy Ruediger Anlauf , Osnabrück University of Applied Sciences, Germany Hadi Hama Aziz Muhammed, Tobias Reineke, Diemo Daum
16:30 - 16:45	RHP pH Buffer Test on Growing Media Constituents Hans Verhagen, Stichting RHP, Netherlands

SYM-06: FEN RESTORATION IN NORTH AMERICA: CHALLENGES AND RESEARCH GAPS

ROOM: 2101

Chair: Pete Whittington, Brandon University, Canada Aamir Shehzad Khan, Peatland Ecology Research Group, Canada Mélina Guêné-Nanchen, Université Laval, Canada

15:30 - 15:45	Ecohydrologic challenges of restoring fens Rod Chimner , Michigan Tech, United States
15:45 - 16:00	Restoration of a degraded fen in Minnesota, U.S.A: Lessons learned Christian Lenhart , University of Minnesota & TNC, United States Anna Kottkamp, Lucy Gregersen, Kristen Blann
16:00 - 16:15	Hydrological targets and lessons learned of rewetting experiments at the eastern edge of the Canadian prairies Pete Whittington , Brandon University, Canada Line Rochefort, Marie-Claire LeBlanc
16:15 - 16:30	Boreal Fen Restoration in Alberta's In-Situ Oil Sands Region Bin Xu , NAIT Centre for Boreal Research, Canada Melanie Bird, Sarah Darling, Ba Thuong Le
16:30 - 16:45	Restored fen vegetation following in situ well pad disturbances Meike Lemmer , CEN, Université Laval; Peatland Science Center (HSWT); Peatland ECR Action Team, Germany Bin Xu, Maria Strack, Line Rochefort
16:45 - 17:00	Fen plant communities, 13 years post-restoration: A case study from the largest restored fen of Quebec (Canada) Aamir Shehzad Khan , Université Laval, Canada

SYM-13: RIVER ECOSYSTEM RESTORATION DES OUTILS ET **RÉFLEXIONS VERS UNE MEILLEURE RESTAURATION DES** COURS D'EAU ? (2 OF 2) (PROGRAMME EN FRANÇAIS)

SALLE: 205AB

Chair: Stéphane Valois, MELCCFP, Canada

15:30 - 15:45	Développement de courbes de géométrie hydraulique adaptées à différents contextes physiographiques au Québec implications pour la restauration des cours d'eau Development of hydraulic geometry curves adapted to various physiographic contexts in Quebec: implications for stream restoration Maxime Boivin , Université du Québec à Chicoutimi, Canada Maxime Boivin, Pascale Biron
15:45 - 16:00	Les défis de la conception de cours d'eau à deux niveaux au Québec: Concilier restauration écologique et production agricole Designing two-stage channels in Quebec: Reconciling ecological restauration and agriculture Félix Riopel , Rivières HGM, Canada
16:00 - 16:15	Un méandre à la fois : un projet de restauration de cours d'eau en milieu agricole A meander at a time: challenges and opportunities of restoring a small degraded agricultural stream Jean-Philippe Marchand, Université Concordia, Canada Pascale Biron
16:15 - 16:30	Petits cours d'eau en milieu agricole; gisement sous-exploité de potentiel de restauration? Small streams in agricultural landscape : an under-exploited source of restauration sites? Renée Gravel , Ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs du Québec, Canada
16:30 - 16:45	Projet de création d'un guide technique de restauration et méthodes alternatives à l'entretien des cours d'eau au Québec Manuel of river restoration and alternative management practices of stream in Québec, AGRCQ project Martin Mimeault , L'Association des gestionnaires régionaux des cours d'eau du Québec, Canada Claire Michaud
16:45 - 17:00	Discussion

SYM-22: THE INTENT AND IMPLEMENTATION OF WETLAND OFFSETTING IN THE MITIGATION HIERARCHY

ROOM: 2104AB

Chair: Susan Glasauer, University of Guelph, Canada Shari Claire, Fiera Biological Consulting Ltd., Canada Nicole Wright, Ecofish Research Ltd., Canada

15:30 - 15:45	Wetland offsetting: What is it and where is it going? Dave Poulton , Alberta Land Institute and Poulton Environmental Strategies, Inc., Canada
15:45 - 16:00	Trading wetlands, habitats, and services in environmental markets Morgan Robertson , University of Wisconsin - Madison, United States
16:00 - 16:15	An Overview of Wetland Management in Canada Nicole Wright , Ecofish Research Ltd., Canada
16:15 - 16:30	The enduring challenge of implementing wetland offset policies Shari Clare , Fiera Biological Consulting, Canada
16.20 17.00	Discussion

SYM-29: INTERNATIONAL SYMPOSIUM ON GROWING MEDIA, COMPOST UTILIZATION AND SUBSTRATE ANALYSIS FOR SOILLESS CULTIVATION (3 OF 3)

ROOM: 202

15:30 - 15:45	CanRePeat: A collaborative program to restore historically extracted peatlands in Canada Daniel Campbell , Canadian Sphagnum Peat Moss Association, Canada
15:45 - 16:00	Revised CO2 emission accounting for peat extraction and use, and implications for policy Hongxing He, McGill University, Canada
16:00 - 16:15	Carbon balance in two different horticultural plants grown in peat-based substrate Bidhya Sharma, McGill University , Canada
16:15 - 16:30	Simulated net biospheric carbon emissions of managed peatlands, and implications for net-zero targets Alice Watts , McGill University, Canada

16:30 - 16:45 Precompetitive Collaboration and Third-Party Assurance as a Driver for Wetland Restoration and Management in the Canadian Peat Industry
 Kevin Warner, SCS Global Services, United States
 16:45 - 17:00 Peatland geoengineering: an approach to strengthen enzymic latch and impede carbon emissions in post-extracted peatlands?
 Talal Asif, Université Laval, Canada

WS-03: HIGH SCHOOL STUDENTS AT CHARLES P. ALLEN HIGH SCHOOL TAKE CHARGE--RECLAIMING HABITAT BY REINTRODUCING NATIVE SPECIES THROUGH THE DEVELOPMENT OF A CAMPUS MEADOW

ROOM: 206A

Chair: Christopher Hall, Charles P. Allen High School, Canada Jennifer Ryan Stephanie Bird

15:30 - 17:00 WS-03: High school students at Charles P. Allen High School take charge--Reclaiming habitat by reintroducing native species through the development of a campus meadow

An interactive session between Charles P. Allen High School student leaders and participants on the journey taken by the CPA's Better With Bees club as they share the documented transformation of a high school campus from expansive lawn to a sustainable urban meadow.

WS-05: NATURAL CLIMATE SOLUTIONS IN CANADA AND CHALLENGES RESTORING TO REDUCE GREENHOUSE GAS EMISSIONS: WETLAND RESTORATION AND WOODLAND THINNING

ROOM: 2000A

Chair: Darcy Henderson, Environment and Climate Change Canada, Canada Florence Daviet

Lyna Lapointe-Elmrabti, Environment and Climate Change Canada, Canada

15:30 - 17:00 WS-05: Natural Climate Solutions in Canada and challenges restoring to reduce greenhouse gas emissions: wetland restoration and woodland thinning

Canadian federal government staff will lead a facilitated discussion and breakout groups to address key scientific, policy, regulatory, and funding mechanisms to address Natural Climate Solution problems with wetland and open woodland restoration for greenhouse gas reduction.

WS-07: BRIDGING RESTORATION SCIENCE AND PRACTICE - A "TOOLKIT" WORKSHOP TARGETING THE FEEDBACK OF RESTORATION PRACTITIONERS

ROOM: 206B

Chair: Nancy Shackelford, University of Victoria, Canada Tina Heger, Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Germany Leonardo Teixeira, Technical University of Munich, Germany

Leonardo Teixeira, Technical Oniversity of Munich, Germany

15:30 - 16:30 WS-07: Bridging restoration science and practice - A "toolkit" workshop targeting the feedback of restoration practitioners

The workshop for the elaboration of the Toolkit for Restoration Knowledge (TReK) aims at the development of an interactive practical tool to support well-informed decisions on ecological restoration planning and execution. This tool aims at connecting restoration scientists and practitioners for the development and systematic implementation of evidence-based restoration.



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THURSDAY, JUNE 15, 2023

RESTORATION PLENARY SPEAKER: TINA MCCAFFREY

ROOM: 2000AB

RESTORATION PLENARY SPEAKER: ERIC HIGGS

ROOM: 2000AB

9:30 - 10:15 A Canadian Agenda for Restoration Eric Higgs, University of Victoria, Canada

ATELIER - ASPECTS APPLIQUÉS DE LA RÉALISATION EXPÉRIENCES **DES ENTREPRENEURS** DE TRAVAUX -(PROGRAMME EN FRANÇAIS)

ROOM: 205AB

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Chair: Nicolas Roy, Terraformex Canada inc., Canada
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10:45 - 12:15 Rôles et expériences d'entrepreneurs dans les projets de restauration de sites dégradés Nicolas Roy, Terraformex Canada inc., Canada Gabriel Charbonneau, Pierre Raymond, Nicolas Roy

^{8:45 - 9:30} From Moonscape to Living Landscape: The reclamation journey of the City of Greater Sudbury, Ontario, Canada Tina McCaffrey, City of Greater Sudbury, Canada

CONTRIBUTED SESSION: PEATLAND RESTORATION AROUND THE WORLD

ROOM: 205C

Chair: Maryam Bayatvarkeshi, University of Waterloo, Canada

- 10:45 11:00 Restoration as an afteruse option in Finnish peat cutaways Oona Allonen, Geological Survey of Finland, Finland Anna M. Laine-Petäjäkangas, Liisa Maanavilja, Tuija Vähäkuopus
- 11:00 11:15 INFLUENCE OF HYDROLOGICAL RESTORATION AND CATTLE EXCLUSION ON CARBON FLUXES IN A COLOMBIAN ANDEAN PEATLAND Ángela Natalia Cáceres Uribe, Pontificia Universidad Javeriana,
 - Colombia
- 11:15 11:30 Climate mitigation potential of forestry drained peatland restoration Anna M. Laine-Petäjäkangas, Geological Survey of Finland, Finland Liisa Maanavilja, Maija Lampela, Paavo Ojanen, Tomi Lindroos, Anne Tolvanen
- 11:30 11:45 Characterization and Evolution of the Biogeochemistry of Pools Created via Peatland Restoration
 Julie Talbot, Université de Montréal, Canada
 Julien Arsenault, Julie Talbot, Mahmud Mahmud Hassan, Line Rochefort

CONTRIBUTED SESSION: RESTORATION AND RECLAMATION IN AGRICULTURAL LANDSCAPES

ROOM: 2105

Chair: Meike Lemmer, Peatland Science Centre (HSWT); Peatland ECR Action Team, Germany

10:45 - 11:00	Groundwater discharge seeps are nitrogen removal hotspots in restored agricultural wetlands Sarah Klionsky , University of Connecticut, United States Christopher Neill, Beth Lawrence
11:00 - 11:15	Accounting for the Natural Variation in Carbon Sequestration Potential of Freshwater Mineral Wetlands on Agricultural Landscapes Purbasha Mistry , University of Saskatchewan, Canada Irena Creed, Eric Enanga, David Lobb
11:15 - 11:30	Peat degradation by agricultural land-use jeopardises peatland ecology and climate benefits on Terceira Island Claudia Nielsen , Aarhus University, Denmark José Azevedo, Jørgen Nielsen, Eduardo Dias, Cândida Mendes

	Restoration Approach to Improve Ecological Value of Novel Ecosystems
	Laurence Turmel-Courchesne, Université Laval, Canada
11:45 - 12:00	Establishing reed canarygrass perennial strips in a floodplain for wildlife and agriculture coexistence Mathieu Vaillancourt , Université Laval, Canada Hada Damar, Bérenger Bourgeois, Monique Poulin
12:00 - 12:15	Ecological and Cultural Recovery - Incorporating Western Science and Indigenous Traditional Ecological Knowledge into Ecosystem Restoration of Retired Agricultural Land in New England, USA Nicholas Nelson , Inter-Fluve, United States Jason Steiding, Dale Oakley Jr

Insights on the Use of the Social Filters and the Ecological

ISHS SESSION: CONVENTIONAL AND ORGANIC PRODUCTION WITH GROWING MEDIA

ROOM: 204AB

11:30 - 11:45

10:45 - 11:15	Keynote address: Nitrogen cycling in organically fertilized growing media Jacynthe Dessureault-Rompré , Université Laval, Canada
11:15 - 11:30	RHP Nitrogen Immobilisation Test on Growing Media Constituents Hans Verhagen, Stichting RHP, Netherlands Ine Geuijen
11:30 - 11:45	Increasing the resource use efficiency of organic soilless production by using natural nitrogen from plasma activated water Tommaso Barbagli , Wageningen Greenhouse Horticulture, Netherlands
11:45 - 12:15	Keynote address: A 2023 perspective on anthropogenic nitrogen in soilless culture James Owen , USDA-ARS, United States of America

SYM-05: EMERGING PERSPECTIVES ON THE WORLD'S LARGEST REGREENING PROJECT: A 50-YEAR RETROSPECTIVE

ROOM: 206B

Chair: Kimber Munford, University of Guelph, Canada

10:45 - 11:00	Outcomes from 45 years of the Landscape Regreening Program in Sudbury, Ontario, Canada: a Synopsis Peter Beckett , VETAC & Laurentian University, Canada Graeme Spiers
11:00 - 11:15	Integrating mineral and organic residuals to reclaim industrially damaged lands Jonathan Lavigne , Lakehead University, Canada
11:15 - 11:30	Sphagnum Re-establishment in Smelter-Impacted Peatlands in Sudbury, Ontario, Canada James Seward , Laurentian University, Canada
11:30 - 11:45	Carbon cycling in restored upland forest sites in Sudbury, Ontario Shaun Watmough , Trent University, Canada Patrick Levasseur
11:45 - 12:00	Understory plant communities from the world's largest regreening program approaching that of 'healthy' sites Kimber Munford , University of Guelph, Dr. Susan Glasauer's Research Group, Canada William Humphrey, Patrick Levasseur, Shaun Watmough

SCIENTIFIC PROGRAM

SYM-15: RESTORATION ASSESSMENT AND MONITORING FOR SEISMIC LINE RECOVERY IN ALBERTA'S BOREAL FOREST (1 OF 2)

ROOM: 2101

Chair: Greg McDermid, University of Calgary, Canada

10:45 - 11:00	Restoration Assessment of Seismic Lines in Alberta's Boreal Forest Greg McDermid , University of Calgary, Canada Erin Bayne, Scott Ketcheson, Julia Linke, Scott Nielsen, Maria Strack
11:00 - 11:15	The Influence of Seismic Lines on Local Hydrology in the Boreal Region of Alberta, Canada Scott Ketcheson , Athabasca University, Canada Lelia Weiland, Maria Strack
11:15 - 11:30	The effect of seismic line disturbance on carbon cycling in boreal peatlands Maria Strack , University of Waterloo, Canada Percy Korsah
11:30 - 11:45	Thresholds, patterns, and interactions: assessing boreal bird recovery in revegetated oil and gas footprint Lionel Leston , Boreal Ecosystem Recovery AssessmentUniversity of Alberta Department of Biological Sciences, Canada Erin Bayne
11:45 - 12:00	Assessing Boreal Forest Disturbance Recovery Using Satellite Imagery Tanya Yeomans , University of Calgary, Canada Greg McDermid, Jiaao Guo, Hunter Jackson, Jennifer N. Hird
12:00 - 12:15	BERA Tools: A GIS toolset for mapping and attributing forest footprint features Greg McDermid , University of Calgary, Canada Richard Zeng, Maverick Fong, Erin Bayne, Scott Ketcheson, Julia Linke, Scott Nielsen, Maria Strack

SYM-17: RESTORING PERIPHERAL RESOURCE REGIONS IN QUÉBEC: CHALLENGES AND PRACTICES (1 OF 2)

ROOM: 2104AB

Chair: Simon Taurines, IRME/UQAT, Canada

10:45 - 11:00	Pioneer moss regeneration for mine waste rocks revegetation Chao Liu , Peatland Ecology Research Group - Université Laval, Canada Kathy Pouliot, Line Rochefort, Sebastien Roy
11:00 - 11:15	Out of site, out of mind: offsite effects of mines on biodiversity and their footprint in boreal forests Xiangbo Yin , Université du Québec en Abitibi-Témiscamingue, Canada Christine Martineau, Abdul Samad, Nicole J. Fenton
11:15 - 11:30	25 years of plant successions and root mycorrhization following the ecological restoration of iron mine tailings of Fermont-Labrador city area in Northern Québec 25 ans de successions végétales et de mycorhization racinaire à la suite de la restauration écologique des résidus des mines de fer de la région de Fermont & Labrador city, à la frontière du Québec et du Labrador Christine Lethielleux-Juge , Irrigation NORCO Inc., Canada
11:30 - 11:45	One's trash is another's treasure Karelle Rheault , University of Copenhagen, Denmark
11:45 - 12:00	Microtopography, physical structure, and organic matter effect on the spontaneous establishment of indigenous plants in borrow pits and mine tailing site in the boreal zone Joanie Tremblay, Université Laval, Canada
12:00 - 12:15	Improving soil carbon storage by reclaiming industrial degraded lands through short rotation coppice of willow plantations in Abitibi Olivier Lalonde , Ramo, Canada Xavier Lachapelle-T., Francis Allard

UN DECADE ROUNDTABLE

ROOM: 2000A

10:45 - 12:30 UN Decade Roundtable

CONTRIBUTED SESSION: CONSIDERING MICROBES IN RESTORATION, RECLAMATION AND REWILDING

ROOM: 2105

Chair: Miranda Hunter, University of Waterloo, Canada

13:30 - 13:45	Effects of phenolic additions on microbial abundances and community structure in peat soils Hojeong Kang , Yonsei University, Korea, Republic of (South Korea) Jungeun Yun, Talal Asif, Line Rochefort, Himchan Park
13:45 - 14:00	Novel indicators for microbial activity to assess early benchmark wetland restoration goals Carissa MacKenzie , University of Guelph, Canada
14:00 - 14:15	Railroad ties: Can northern Fungi help clean creosote-treaded wood? Bois créosoté : Est-ce que des champignons nordiques peuvent aider à dépolluer des traverses de chemin de fer? Kawina Robichaud , Biopterre, Canada
14:15 - 14:30	Impacts of reclamation capping and vegetation type on structural and functional attributes of microbial communities in thickened oil sands tailings Abdul Samad , Natural Resources Canada - Canadian Forest Service, Laurentian Forestry Centre, Pakistan
14:30 - 14:45	Does shift in vegetation abundance after nitrogen and phosphorus additions play a key role in regulating fungal community structure in a northern peatland? Meng Wang , Northeast Normal University, China Jingjing Huang, Leming Ge, Tong Li, Zhao-Jun Bu, Shengzhong Wang, Zucheng Wang, Ziping Liu, Shasha Liu, Meng Wang
14:45 - 15:00	Mitigating decomposition in agricultural peatlands: copper and polyphenol influence on C N P dynamics and enzyme activities of contrasting soils Karolane Bourdon , Université Laval, Canada Josée Fortin, Jacynthe Dessureault-Rompré, Jean Caron

CONTRIBUTED SESSION: MINES AND MINING IMPACTS: RESTORATION AND RECLAMATION

ROOM: 205C

Chair: Catherine Capkun-Huot, Université Laval, Canada

10.45 14.00	
	Robert Cantrell
	Fernando Rojano, Mohammad Nazari-Sharabian, David Coleman,
	Amir Hass, West Virginia State University, United States
	Mine Site Base-Flow on Stream Water Quality
13:30 - 13:45	Role of Historic Sediment Pond in Attenuating Impact of Surface

- 13:45 14:00 Are lichens an effective tool to reliably monitor emission reductions from Sudbury smelters? Max Lakanen, Laurentian University, Canada
- 14:00 14:15
 Mongolia: Setting New Standards for Mine Closure and Reclamation

 Rachel Noble-Pattinson, CPP Environmental Corporation, Canada
 Erdenechimeg Regijibuu, Ankh-Amgalan Ganbat
- 14:15 14:30 SNAP LAKE MINE: THE FIRST DIAMOND MINE IN THE NORTHWEST TERRITORIES TO ENTER FINAL CLOSURE AND REHABILITATION **Michelle Peters**, De Beers Canada Inc, Canada

ISHS SESSION: GROWING MEDIA FOR GREEN CITIES AND NEW MARKET FOR GROWING MEDIAS

ROOM: 204AB

13:30 - 14:00	Keynote address: Principle and evolution of constructed soils in urban horticulture Laure Vidal-Beaudet , Institut Agro , France
14:00 - 14:15	Rooftop vegetable production using growing media with limited organic content Guillaume Grégoire , Université Laval, Canada Martine Dorais, Guillaume Grégoire
14:15 - 14:30	Current Status, Challenges and Future Research Directions of Soilless Cannabis Cultivation Youbin Zheng , University of Guelph, Canada
14:30 - 14:45	Use of licorice pulp (Glycyrrhiza glabra L.) as a organic mulch in order to reduce water use and its effect on grape yield Mehdi Hosseinifarahi , Islamic Azad University, Department of Horticultural Science, Yasuj Branch, Iran Ehsan Fereidouni

SCIENTIFIC PROGRAM

CONTRIBUTED SESSION: DIVERSES APPROCHES DE RESTAURATION POUR AUGMENTER LA BIODIVERSITÉ (PROGRAMME EN FRANÇAIS)

ROOM: 205AB

Chair: Lucie Labbé, AECOM, Canada

13:30 - 13:45	La restauration de bandes riveraines herbacées en contexte agricole dans des conditions de sécheresse Laurie Chaisse-Leal , Université Laval, département de Phytologie, Canada
13:45 - 14:00	INFLUENCE DES VARIABLES PAYSAGERES SUR LA SELECTION DU SITE DE NIDIFICATION DE L'DICNEME CRIARD (BURHINUS OEDICNEMUS) EN POITOU-CHARENTES Eric Niyongabo , Ligue pour la Protection des Oiseaux, France
14:00 - 14:15	Développement d'un procédé de saine gestion des résidus de plantes exotiques envahissantes par biotransformation Emmanuel Caron-Garant , Biopterre, Canada Sébastien Lange, Habib Horchani, Salma Taktek, Julie Charbonneau
14:15 - 14:30	La restauration de sites miniers abandonnés au Québec : défis et opportunités pour l'atteinte d'un état plus que satisfaisant! Sandra Trépanier , Ministère des ressources naturelles et des forêts, Canada
14:30 - 14:45	Est-ce que les crédits biodiversité peuvent stimuler l'industrie de la restauration au Québec? Benoit Limoges , Viridis Terra International, Canada

SYM-15: RESTORATION ASSESSMENT AND MONITORING FOR SEISMIC LINE RECOVERY IN ALBERTA'S BOREAL FOREST (2 OF 2)

ROOM: 2101

Chair: Greg McDermid, University of Calgary, Canada

13:30 - 13:45	Introduction
13:45 - 14:00	Recovery trajectories for passive restoration of seismic lines in North American boreal forests Colleen Sutheimer , University of Alberta, Canada Angelo Filicetti, Scott Nielsen
14:00 - 14:15	Silviculture treatments hasten seedling and sapling growth on seismic disturbances in boreal treed fens Colette Shellian , University of Calgary, Canada Julia Linke, Greg McDermid, Michael Cody, Scott Nielsen
14:15 - 14:30	How mounds are made matters: implications for seismic line restoration in peatlands Kimberly Kleinke , University of Waterloo, Canada Scott J. Davidson, Megan Schmidt, Bin Xu, Maria Strack
14:30 - 14:45	Role of mounding in ecological regeneration and carbon sequestration in peatlands affected by seismic lines Nazia Tabassum , University of Waterloo, Canada
14:45 - 15:00	Artificial Intelligence for Forest Restoration: An Automated Approach for Assessing Tree-regeneration Status on Industrial Disturbances Irina Terentieva , University of Calgary, Canada Greg McDermid, Julia Linke

SYM-17: RESTORING PERIPHERAL RESOURCE REGIONS IN QUÉBEC: CHALLENGES AND PRACTICES (2 OF 2)

ROOM: 2104AB

Chair: Simon Taurines, IRME/UQAT, Canada

13:30 - 13:45	Des chauves-souris et des mines, une contribution au maintien de la biodiversité Nathalie Desrosiers , Ministère de l'Environnement, de la Lutte
	contre les changements climatiques, de la Faune et des Parcs du Québec, Canada
13:45 - 14:00	Galeries minières désaffectées et biodiversité: Une deuxième vie pour les mines ! Marc Gauthier , WSP Canada Inc., Canada
14:00 - 14:15	Can the eggs and caterpillars of the endangered monarch butterfly survive on revegetated mine sites in Northwestern Québec? Shawna O'Flaherty , Université du Québec en Abitibi-Témiscamingue, Canada
14:15 - 14:30	The past, present and the potential future of metal-contaminated boreal lakes of the Abitibi-Témiscamingue region (Québec) Marta Gabriele , UQAT, University of Quebec in Abitibi-Temiscamigue, Canada
14:30 - 14:45	Modeling the influence of forest vegetation and climate change on the long-term performance of a cover with capillary barrier effects used to control acid mine drainage at the Lorraine mine site Yves-Dady Botula , Université du Québec en Abitibi-Témiscamingue, Canada Bruno Bussière, Marie Guittonny, Gwendoline Hotton
14:45 - 15:00	Discussion

SYM-19: THE DESIGN OF BIODIVERSE SILVOPASTORAL SYSTEM THRU APPLIED NUCLEATION: RESTORATION, LIVELIHOOD AND PROVISION OF MULTIPLE ECOSYSTEM SERVICES IN A MULTIFUNCTIONAL LANDSCAPES **ROOM: 206B**

Chair: Abdon Luiz Schmitt Filho, Federal University of Santa Cataria, Brazil Paulo Sinisgalli, Universidade de São Paulo, Brazil

13:30 - 13:45	Silvopastoral systems and ecological rehabilitation of agroecosystems Jesús Manuel Iglesias-Gómez, Estación Experimental Indio Hatuey, Universidad de Matanzas, Cuba Abdon Schmitt Filho, Luiz Fernando Zin Battisti, Matheus Deniz, Andre de Almeida Silva, Olivia Marcon Borges
13:45 - 14:00	High Biodiversity Silvopastoral System (SPSnu), applied nucleation and habitat rehabilitation: The ecology of birds, ants, and bees Paulo Antonio de Almeida Sinisgalli , Institute for Energy and Environment- IEE, University of Sao Paulo - USP, Brazil Abdon Schmitt Filho, Gisele Franciole Simione, Ana Heck, Givana Pittarelli Bento, Fernando Joner
14:00 - 14:15	Ecological rehabilitation and carbon dynamics above the soil on High Biodiversity Silvopastoral System (SPSnu): Biomass and carbon uptake Abdon Schmitt Filho , Silvopastoral Systems and Ecological Restoration Lab. LASSre/UFSC, Universidade Federal de Santa Catarina UFSC, Florianópolis, Brazil Abdon Schmitt Filho, Andre de Almeida Silva, Stéfano Gomes Kretzer, Jesús Manuel Iglesias-Gómez
14:15 - 14:30	Applied nucleation, microclimate stability and ecological rehabilitation of agroecosystems Abdon Schmitt Filho , Silvopastoral Systems and Ecological Restoration Lab. LASSre/UFSC, Universidade Federal de Santa Catarina UFSC, Florianópolis, Brazil Matheus Deniz, Stefano Gomes Kretzer, Daniele C. Kazama, Paulo Antonio de Almeida Sinisgalli, Joshua Farley
14:30 - 14:45	The Ecological Economics of an Agroecological Transition Joshua Farley, University of Vermont, United States Abdon Schmitt Filho
14:45 - 15:00	Discussion

SYM-20: THE ENVIRONMENTAL BENEFITS OF USING BIOCHAR FOR ECOLOGICAL RESTORATION

ROOM: 206A

Chair: Patrick Brassard, IRDA, Canada

13:30 - 13:45	Biochar production from dedicated energy crops to mitigate climate change and to improve agricultural soil health Patrick Brassard , IRDA, Canada Stéphane Godbout
13:45 - 14:00	PERFORMANCE OF BIOCHAR AND VARIOUS FILTERING MEDIA FOR THE TREATMENT OF COW MANURE LEACHATE FROM EXERCISE PENS
	Elizabeth Alvarez-Chavez, Université Laval, Canada
14:00 - 14:15	Microbial soil amendments that promote plant growth increase biomass in mine tailings and induce shifts in microbial community structure and function Kimber Munford , University of Guelph, Dr. Susan Glasauer's Research Group, Canada Nadia Mykytczuk, Raina Burke, Susan Glasauer
14:15 - 14:30	Addition of biochar and phenolic compounds in peat to reduce decomposition of Sphagnum mosses Éléonor Bergeron-de Pani , Université Laval, Canada
14:30 - 14:45	Discussion

CLOSING CEREMONY

ROOM: 2000A

15:30 - 16:45 ISHS Young minds Awards Jean Caron, Université Laval, Canada Jacynthe Dessureault-Rompré SCIENTIFIC PROGRAM

POSTER SESSIONS

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POSTER SESSIONS

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Evaluating the soil block method and growing media in organic vegetable transplant production Anne Carey , Iowa State University Department of Horticulture, United States Ajay Nair
Impact of Growing Media Components on the Mineralization of Nitrogen from a Plant-based and an Animal-based Organic Fertilizers Laura Thériault , Berger Peat Moss, Canada Steeve Pepin, Martine Dorais
Impact of thermo-hydrolytically treated wood fibers as a substrate component on the growth of petunias Tobias Reineke , Osnabrueck University of Applied Sciences, Germany Hadi Hama Aziz Muhammed, Ruediger Anlauf, Diemo Daum
Suitability of differently treated broadleaf cattail for plant cultivation in peat-reduced growing media Diemo Daum , Osnabrueck University of Applied Sciences, Germany Andreas Halm, Christoph Budke, Christian Frerichs, Ruediger Anlauf
Peanut shell wastes as a culture medium for greenhouse tomato in soilless culture Raheleh Ebrahimi , Islamic Azad University, Department of Horticultural Science and Agronomy, Science and Research Branch, Iran (Islamic Republic of) Negin Ebrahimi
Culture medium volume and plant training method affect some traits of greenhouse eggplant in soilless culture Mohammadreza Hassandokht , University of Tehran, Department of Horticultural Science, University College of Agriculture and Natural Resources, Iran Mojtaba Jafarzadeh, Reza Salehi
Engineered substrates to improve nitrogen, phosphorus, and water retention in nursery container production Henry Gonzalez , Michigan State University, United States Rodney T. Fernandez, James Owen, Jacob Shreckhise

 Jeb Fields, LSU AgCenter, United States of America Amanda Mizell, Maureen Thiessen
Biochar alone can maintain optimal pH in a bark-based substrate J ames Owen , USDA-ARS, United States of America Alexandra Espinoza, James Altland, Kay Yeon Jeong
A comparative study on some locally available organic materials for their potential utilization in sustainable growing media blends Costantino Cattivello , ERSA FVG, Italy
Addressing threats in marine coastal ecosystems in eastern Canadian National Park Victor Kafka , Agence Parcs Canada, Canada Cristiane C. Albuquerque Martins, Gabrielle Beaulieu, Nadia Ménard, Daniel Sigouin
Economic potential of biochar for the production two tropical agroforestry species (Eucalyptus grandis and Dacryode edulis) used in reforestation Gilles Raoul Lontsi Meli , FFGG ulaval, Canada
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