



1st "4 per 1000" North America Regional meeting

March 17 & 18, 2020

This event is organized in partnership with:



With Financial Support From:



Venue:

Marché Bonsecours - Montréal - Canada ([See on a map](#))

The home page of the meeting: <https://livingsoilssymposium.ca/fr/reunion-regionale-4-pour-1000/>

Objective:

Organize the first regional meeting in North America gathering a maximum of partners and members of the "4 per 1000" initiative in Canada (7) and USA (58).

Capitalize on 3 half days of meeting to elaborate a regional roadmap of concrete action on the ground, for storing carbon in the soils with the help of agriculture and forestry.

"From pilot project to large scale development"

- presentation of concrete results in each categories of stakeholders (farmers, scientists, NGOs, businesses)
- presentations of promising results and scalable
- the facilitating/incentive factors and the blocking/limiting ones.

Deliverables:

A regional vision and roadmap of concrete actions on the ground, to enhance healthy soils and carbon sequestration in soils via agriculture and forestry

Participants:

All partners and members of the "4 per 1000" based in North America, all interested friends of the "4 per 1000" Initiative in the area, and contacts of our network.

The free registration page: <https://www.weezevent.com/reunion-regionale-4-pour-1000-amerique-du-nord>

Each participant is asked to bring his own bottle to be filled with water (no glass, nor cups will be provided for water)

For those who would like to follow the "Living soils Symposium" the following days, Regeneration Canada gives them a 10% discount with the code: **LSS_4p1000**

Agenda:

Tuesday 17th March			
Slot	Subject	Speakers	Time
8h30-9h30	Welcome coffee and Welcome of the participants (headsets for those who need it)		
9h30-9h40	Traditional opening by Sedalia Kawenno:ta's Fazio , Mohawk Elder		10 min
9h30-11h00	<p>Introduction of the Regional meeting and presentation of the objectives of the meeting</p> <p>Welcome speech by Dr. Paul LUU, Executive Secretary "4 per 1000" Initiative and Mr. Antonious PETRO, Scientific Director of Regeneration Canada</p>	Executive Secretariat - Regeneration Canada	15 min
	<p>Situation and perspectives of the "4 per 1000" Initiative 4 years after its creation at COP 21 of UNFCCC in Paris by Dr. Paul LUU, Executive Secretary "4 per 1000" Initiative</p>	Executive Secretary	15 min
	<p>General presentation of the regional context vis-a-vis "4 per 1000" Initiative:</p> <ul style="list-style-type: none"> Canadian policy on soil health and carbon sequestration in soils related to agriculture and forestry by Mr. François CHRETIEN, Associate Director "Living labs" (TBC) Quebec policy on soil health and carbon sequestration in soils related to agriculture and forestry by Mrs. Odette MENARD, Conseillère en conservation des sols et de l'eau - Direction régionale de la Montérégie, Ministère de l'agriculture, des pêcheries et de l'alimentation du Québec (TBC) California policy on soil health and carbon sequestration in soils related to agriculture and forest by Mrs. Jenny LESTER-MOFFITT, Undersecretary California Department of Food and Agriculture Synthesis of US policy on soil health and carbon sequestration in soils related to agriculture and forestry by Mr. Sylvain MAESTRACCI, Agricultural Attaché at the French Embassy in Washington DC (USA) 	Representatives of Canadian and US ministries of agriculture <u>Chair: Dr. Paul LUU ("4 per 1000" Initiative)</u>	2 x 30 min or 4 x 15 min
11h00-11h15	Coffee/tea break		15 min

Presentation of speakers:

Mr. François CHRETIEN, Associate Director "Living labs"

Mrs. Odette MENARD, Conseillère en conservation des sols et de l'eau - Direction régionale de la Montérégie, Ministère de l'agriculture, des pêcheries et de l'alimentation du Québec

Mrs. Jenny LESTER-MOFFITT, Undersecretary California Department of Food and Agriculture

Mr. Sylvain MAESTRACCI, Agricultural Attaché at the French Embassy in Washington DC (USA)

Slot	Subject	Speakers	Time
11h15-13h00	Round tables n°1: Farmers' experiences and proposals from the ground <ul style="list-style-type: none"> • Experience from a Canadian farmer involved in Conservation agriculture - Mr. Jocelyn MICHON • Experience from a Canadian farmer involved in Holistic grazing techniques - Mr. Paul SLOMP • Showcase of Ontario Soil Network - Mrs. Tori WAUGH • Presentation of activities of the Soil Conservation Council of Canada - Mr. Alan KRUSZEL, Past-Chair 	4 to 5 speakers max <u>Moderator: Mr. Daniel MOSS</u> (Agro Ecology Fund) <u>Rapporteur: Mr. Seth ITZKAN</u> (Soil4Climate) Debates with the attendance	5 x 15 min 30 min
13h00-14h00	Lunch		

Presentation of speakers:

Mr. Jocelyn MICHON has been in agriculture since 1974. Quickly he applied himself to reduce the number of interventions in field crops. Concerned about improving the health of the soil, he has succeeded in setting up an efficient no-till system (direct seeding) combined with the use of cover crops over the past 26 years. The ultimate goal is to cover the soil permanently and not to disturb it with tillage tools. The results show some of the best yields with a significant reduction in chemical inputs.



Mr. Paul SLOMP was raised on his family's dairy farms, first in the Netherlands, then in Alberta—farms that were at the forefront of the grass-based dairy movement. His love of mathematics and science led him to study engineering at the University of Alberta. After volunteering near the Zambia-Malawi border with Engineers without borders for four years, he returned to Canada to work in Canadian food policy and later to start his own farm to develop and showcase the ability of alternative models of agriculture to produce food for people in a way that regenerates soil and rejuvenates ecosystems while being economically viable with the aim of providing a different model on which to base agricultural development. Paul, his partner Josée and two kids are currently breathing new life into the abused soil of a recently acquired farm in St-André-Avellin, QC. Their farm is called Grazing Days and they mob graze a herd of 200 bovines and a sounder of 70 pigs on 370 acres and market the meat from 70 cattle and 70 pigs per year directly to households in the Ottawa, Gatineau and Montreal areas.



Mrs. Tori WAUGH is the Principle Consultant of Conservation Ag Consulting, an agricultural sustainability company driving innovative solutions to conserving soils in Ontario. Conservation Ag Consulting provides event planning, research coordination, organizational development and designs, delivers & evaluates projects and programming for Conservation Authorities and Environmental NGO's. Tori WAUGH 's background lies in agricultural and conservation industries. she completed her Bachelor's degree at the University of Guelph and is currently pursuing her Master's degree in environmental sciences at the University of Guelph. Tori Waugh has spoken at a number of Conservation conferences including the South West Agricultural Conference, Latornel and Ontario Soil and Crop Improvement Association.



Mr. Alan KRUSZEL joined the board of the Soil Conservation Council of Canada in 2006 and is currently the immediate Past-Chairman. With the Council, he works to encourage the development of policies, production methods and management systems for agricultural land which enables sustainable use of soil and related resources. Alan has also served on the board of the Ontario Soil and Crop Improvement Association serving as Provincial President in 2015, where he assisted in the unveiling of Ontario's provincial soil. He continues to be involved in various regional, provincial and national committees related to soils.



He received his Bachelor of Science in Agriculture from Macdonald Campus of McGill University in 1995 and has also been a certified crop advisor since 2003.

Alan and his family operate a small 1st generation cash crop farm as well as a crop consulting business in Eastern Ontario. They grow primarily corn, soybeans and cereals as well as many types of cover crops using no-till practices. The farm philosophy is to keep something living on the land at all times of the year. Through their consulting business they promote soil health building practices such as reduced tillage and no-till, diverse crop rotations and the use of cover crops. They also provide a suite of other agronomic services to many local producers.

Slot	Subject	Speakers	Time
14h00-15h20	Round tables n°2: Science point of view <ul style="list-style-type: none"> • “Advances in Soil Health” by Dr. Derek LYNCH, Professor, Agronomy and Agroecology (Department Plant, Food and Environmental Sciences at Faculty of Agriculture, Dalhousie University) • Experience from a Canadian Scientist - Dr. Brandon HEUNG • Experience from a Canadian Scientist - Dr. Denis ANGERS, Research Scientist (Agriculture and Agri-Food Canada, Québec) 	Moderator: Mrs. Tori WAUGH (Ontario Soils) Rapporteur: Mr. Sylvain MAESTRACCI (French Embassy in USA) Debates with the attendance	3 x 15 to 20 min 20 min
15h20-15h35	Coffee/tea break		15 min

Presentation of speakers:

Dr. Derek LYNCH Ph.D, P.Ag

Professor of Agronomy and Agroecology at Dalhousie University Faculty of Agriculture, Derek held the position of Canada Research Chair in Organic Agriculture from 2005-2015. He has worked with many farms and producer groups across Eastern Canada to tackle both production challenges and assess the ecological and environmental footprint of these systems, including field crop, dairying, and blueberry production. Current research projects in Atlantic Canada and Quebec are examining farming system, and management practice, impact on soil carbon, soil health and soil biota. Derek has published over 70 peer-reviewed papers and book chapters. In 2014-15 he was president of the Canadian Society of Agronomy.



Dr. Brandon HEUNG

Dr. Brandon Heung joined Dalhousie University in 2017 as an Assistant Professor in Geospatial Informatics, where his primary research interests are in the field of digital soil mapping (DSM). His research interests are focussed around these themes: (1) the use of DSM techniques for mapping soils at local-, regional-, and national-scales; (2) the development of digital soil assessment techniques to support land management decisions and policy; and (3) the development of spatiotemporal approaches for modelling soil processes across a landscape. Currently, Dr. Heung is the co-chair of the Canadian Digital Soil Mapping Working Group, a national network of soil mappers that are tasked with coordinating and developing national-scale mapping products. The working group was established by the Canadian Society of Soil Science in 2016 and includes collaborators from five



academic institutions, Canadian Forest Service, Agriculture and Agri-Food Canada, and multiple provincial government agencies. The working group was also responsible for developing and delivering a preliminary Canadian Soil Organic Carbon Map (CSOCmap) as part of Canada's contribution to the Global Soil Organic Carbon Map (GSOCmap) compiled by FAO in 2017.

Dr. Denis ANGERS

Denis Angers is a Principal Research Scientist with Agriculture and Agri-Food Canada in Quebec City. His research focuses on soil C and N cycling, with the overall objective of understanding and developing practices to reduce soil degradation and net greenhouse gas emissions through C sequestration. His has worked on arable crops and livestock-based cropping systems across Canada, but also in France, Brazil and China. He contributed to the development of the Canadian Agricultural Greenhouse Gas Accounting (Inventory) System. He is a former President and Fellow of the Canadian Society of Soil Science and a Fellow of the Soil Science Society of America, and a Corresponding Member of the French Academy of Agriculture. In 2018, he was awarded a Doctorate Honoris Causa from the University of Loire-Brittany in France. He currently contributes to the IPCC 6th Assessment Report for the Agriculture and Land Use sector.



Slot	Subject	Speakers	Time
15h35-16h55	<p>Round tables n°3: Civil society and the point of view of NGOs</p> <ul style="list-style-type: none"> • Point of view from Drawdown Project - Dr. Mamta MEHRA, Senior Fellow Bio-sequestration Modeling (by visio) • Point of view from Regeneration Canada - Mrs. Gabrielle BASTIEN • Point of view from Business Climate Leaders - Mr. Klaus MAGER • Point of view from Soil4Climate - Mr. Seth ITZKAN, co-director and co-founder • "Climate Agriculture: the barriers and opportunities to enhancing soil health in Canadian agriculture" by Mrs. Karen ROSS, Policy and Program Manager - Agriculture at Equiterre 	<p>5 speakers max <u>Moderator: Mr. Paul SLOMP</u> (farmer in Québec) <u>Rapporteur: Mrs. Beatrice BRETON-ASKAR</u> ("4 per 1000" Initiative) Debates with the attendance</p>	5 x 12 min 20 min

Presentation of speakers:

Dr. Mamta MEHRA is an environmental professional with expertise in climate change, agriculture, and natural resource management. She has more than ten years' experience working in these sectors.

Dr. Mehra joined Project Drawdown in 2015. Currently, in her role as a Senior Fellow, she is focusing on Drawdown solutions in the Land Use and Food sectors. She is also presenting Project Drawdown at various conferences and creating awareness of Drawdown solutions.

She is also working as an independent consultant and working with various national and international organizations on climate change issues and is one of the senior analysts of the Keeling Curve Prize. Previously, Dr. Mehra worked in different research capacities for Swiss Aid, UNDP-Australian Aid, and World Bank on projects involving community-based agriculture insurance, capacity-building of civil servants on climate change issues, resource conservation, and diversified farming systems. Dr. Mehra is very passionate about application-based research and in the next phase of work she wants to work on the implementation of Drawdown solutions at various scales.

Dr. Mehra has a master's degree in Water Resource Management and Ph.D. in Sustainable Resource Use Management from TERI University, India. She has authored many peer reviewed



papers and is one of the contributors to the New York Times bestseller book, "Drawdown: The Most Comprehensive Plan Ever Proposed to Reverse Global Warming".

Mrs. Gabrielle BASTIEN founded Regeneration Canada in 2017 and led the team that launched the first Living Soils Symposium in Montreal. Driven by the mission to promote regenerative land management ever since her Master's degree in Sustainability and Environmental Management at Harvard University, Gabrielle is convinced that carrying out large-scale efforts to regenerate soil health is our best shot at reversing climate change all the while fostering healthy food systems.



Prior to her graduate studies, she obtained a Bachelor of Business Administration in Marketing at HEC Montréal and gathered years of work experience in communications, project management and event planning.

Interested in diving in deeper in the practical aspects of permaculture, Gabrielle did an apprenticeship on Ben Falk's Whole Systems Design farm in Vermont in 2015 and focused her Master's thesis on the economic viability of permaculture-inspired farms in Quebec.

Mr. Klaus MAGER has been a volunteer for Citizen Climate Lobby for 5 years. He is a core team member of the Agricultural Action team, an advisory group to the board, and food and agriculture sector co-leader for Business Climate Leaders, an initiative of CCL.

Klaus has 40+ years of international work experience in F&B, including 21 years as a Director for the Walt Disney Co. developing a wide range of concepts for F&B operations in the Theme Parks and Hotels in California and Hong Kong. He then worked 5 years for Metro C&C, a self-service wholesaler based in Germany, in a corporate marketing position responsible to set strategy for Hospitality sales in 30 countries.



Mr. Seth ITZKAN is one of the world's leading voices for soil restoration as a climate solution. With his colleague, Karl Thidemann, Seth is co-founder and co-director of Soil4Climate. The Soil4Climate Facebook group has 16,000+ members from over 100 nations, hosting discussions with scientists, practitioners, policy activists in the field. Soil4Climate was one of the original "civil society" organizations in the French 4p1000 soil carbon initiative and Seth will be speaking at the North American 4p1000 symposium in Montreal later this year. Soil4Climate has a chapter in Kenya working with members of the Maasai tribe to implement Holistic Planned Grazing as a means of environmental, social and economic enhancement. Seth Itzkan and Soil4Climate are closely assigned with the Savory Institute. Seth is Climate Advocacy Advisory with the Savory Institute and has appeared many times at public events with Allan Savory. Seth considers himself an "environmental futurist" and has a degree in Studies of the Future Studies of the Future Program at University of Houston-Clear Lake. He is a TEDx speaker on restoring grasslands and with planned grazing. Seth has consulted for The Boston Foundation, the Massachusetts Technology Collaborative and the US Bureau of the Census.



Dr. Karen ROSS is Policy and Program Manager - Agriculture at Équiterre, where she is currently leading a pan-Canadian project on soil health. Karen has a Ph.D. from Western University and comes to Équiterre as a former faculty at King's University College, a policy advocate and researcher on sustainable food systems in Canada, and a project manager on a federally-funded project in Rwanda and Burundi.



From Équiterre's Ottawa office, Karen works at a federal level, advocating for policies that encourage soil health, as a means to improve climate resilience and mitigation, biodiversity and water quality for farmers and all Canadians. Karen manages a vegetable, fruit and flower "fermette" with her partner, selling their produce directly to daycares and at farmers markets.

Slot	Subject	Speakers	Time
16h55-18h15	<p>Round tables n°4: Experience of businesses (production and value chains, C accountability, etc.)</p> <ul style="list-style-type: none"> • Experience from Food Water Wellness Foundation - Mrs. Kimberley CORNISH, Director • Experience from Indigo Ag - Mr. Dan HARBURG, Senior Director Systems Innovation • Experience from Ecosystem Services Market Consortium – Mrs. Debbie REED, Executive Director 	<p>4 speakers max <u>Moderator: Dr. Paul LUU</u> ("4 per 1000" Initiative) <u>Rapporteur: Mr. Klaus MAGER</u> (Food with Thought) Debates with the attendance</p>	3 x 15 min 20 min
Deliverables at the end of the day	4 synthesis and wish lists to be discussed the following morning	4 rapporteurs	

Mrs. Kimberley CORNISH has worked internationally in the areas of vocational training and food security drawing on her educational background in political science and international development. Since returning to Canada, she has headed up Food Water Wellness Foundation to advance agricultural practices that are environmentally regenerative. Her focus has been to find a cost-effective way to measure and monitor soil carbon sequestration. She maintains a number of roles:

- Executive Director and Founder of Food Water Wellness Foundation
- Member of the United Nations FAO Working Group on Soil Carbon Sequestration
- Member of the Advisory Board of Rural Routes for Climate Solutions, Alberta
- Co-Chair of the Organic Value Chain Round Table Carbon Sequestration Task Force



Mr. Dan HARBURG is a scientist and entrepreneur working at the intersection of agriculture, robotics, electronics, materials, chemistry and biology to develop disruptive technologies. He is an engineer and a physicist by schooling and deeply enjoy using his problem-solving skills to generate meaningful solutions for the world's greatest needs. He can read patents, build spreadsheets, and write code or go deep with art critics or Spanish chefs. Dan fundamentally believes that success in startups comes from building teams of multi-lingual experts who share a common language of human-centered design and never stop questioning their assumptions.



Mrs. Debbie REED has been selected to guide the new ESM Consortium as its Executive Director. Debbie has been working on this project and its activities since its inception. She has focused on GHG mitigation and ecosystem services from the agricultural sector since 1997, having worked at the White House Council on Environmental Quality as the Director of Legislative Affairs and Agricultural Policy; and in the U.S. Senate as a Senior Staff on natural resource and agricultural issues for U.S. Senator Robert Kerrey of Nebraska. Prior to that she held numerous leadership positions at the U.S. Department of Agriculture, including special assistant to the Deputy Under Secretary for Research, Education and Economics (REE), and special assistant to the Administrator of the Agricultural Research Service (ARS). Her work at USDA included serving on multiple bi-national commissions on agricultural science and technology; and as the USDA Executive Secretariat for the US Dietary Guidelines for Americans. She has graduate and undergraduate degrees in human nutrition/dietetics, chemistry, and communications.



Wednesday 18th March			
Slot	Subject	Speakers	Time
9h30-10h10	Presentation of the synthesis of the 4 round tables by the rapporteurs RT N°1: Mr. Seth ITZKAN (Soil4Climate) RT N°2: Mr. Sylvain MAESTRACCI (French Embassy in USA) RT N°3: Mrs. Beatrice BRETON-ASKAR ("4 per 1000" Initiative) RT N°4: Mr. Klaus MAGER (Food with Thought)	<u>Chair: Dr. Paul LUU</u> ("4 per 1000" Initiative) 4 rapporteurs	4 x 10 min
10h10-11h45	Global brainstorming to agree on propositions of actions to be included in a roadmap for North America	<u>Animator: Mr. Daniel MOSS</u> (Agro Ecology Fund) with the Executive Secretariat	1h35
11h45-12h00	Conclusion of the Regional Meeting by Dr. Paul LUU, "4 per 1000" Initiative Executive Secretariat	Dr. Paul LUU ("4 per 1000" Initiative)	15 min

Concerning the organizers of the Regional meeting:

Dr. Paul LUU is an agronomist specialized in tropical agronomy, graduate from AgroParisTech, the Institute of tropical areas of Montpellier, the National High School of Agricultural Applied Sciences of Dijon, and the University of Montpellier (PhD in "population biology").



He began his career in the field, with six years in the heart or at the head of agronomic research projects in the Caribbean (St. Lucia), Indian Ocean (Sri Lanka) and the Pacific (Tonga), before joining the international Relationship Department of the French Ministry of agriculture.

During the following 7 years, he was in charge of multilateral relationship with FAO, the World Bank and the CGIAR, of bilateral relationship with the countries in Africa and the Mediterranean area, as well as the management of the French food aid (200 000 t of grain per year), as Head of Mission and then as Head of Department.

Then comes 9 years spent in developing the agriculture of French overseas departments and territories, 3 years as Technical Advisor "Agriculture, Fisheries and Forestry" of the Minister of Overseas, then 6 years as Director of ODEADOM (the Board in charge of agricultural development of overseas areas that pays European (CAP) and national subsidies to agriculture of those regions).

In 2011, Paul LUU was appointed Director of Agropolis International, the international association that represents the scientific community "Agronomy - Environment - Biodiversity - Water" of the Occitanie area (one of the largest in the world with over 10,000 scientists). He contributed in particular to the installation of the CGIAR Consortium in Montpellier, International organization dedicated to agricultural research for the benefit of the poorest people on the planet. He joined the organization in September 2013 as Liaison Officer with the French Authorities, then as Protocol Officer.

From September 2016, Paul is Executive Secretary of the "**4 per 1000 Initiative: Soils for food security and climate**", launched at COP 21 in Paris.

Mrs. Gabrielle BASTIEN founded ***Regeneration Canada*** in 2017 and led the team that launched the first Living Soils Symposium in Montreal. Driven by the mission to promote regenerative land management ever since her Master's degree in Sustainability and Environmental Management at Harvard University, Gabrielle is convinced that carrying out large-scale efforts to regenerate soil health is our best shot at reversing climate change all the while fostering healthy food systems.



Prior to her graduate studies, she obtained a Bachelor of Business Administration in Marketing at HEC Montréal and gathered years of work experience in communications, project management and event planning.

Interested in diving in deeper in the practical aspects of permaculture, Gabrielle did an apprenticeship on Ben Falk's Whole Systems Design farm in Vermont in 2015 and focused her Master's thesis on the economic viability of permaculture-inspired farms in Quebec.

Mr. Antonious PETRO is the Scientific Director at ***Regeneration Canada*** and Master's candidate in soil sciences at UQAT. He also has a diploma in biology and in community economic development. Antonious is interested in soil carbon sequestration in agricultural soils and in ecological services of urban soils. His specialty is scientific vulgarisation in ecology and agri-food, sustainability project management, and citizen mobilization around climate change.

