

LIVING WITHIN THE EARTH'S CARRYING CAPACITY

March 25 - April 1,7,14, 2021
1:00-3:00 pm EDT

By invitation only
Simultaneous interpretation is available

WORKSHOP OBJECTIVES

Convene academic, government, industry, Indigenous and community organization leaders to:

- foster a deeper understanding of the state of knowledge regarding the absorptive and productive capacity of global ecosystems, as well as the connections between natural and human systems;
- discuss policy implications of [Knowledge Synthesis Grants projects](#), which identify emerging trends, research strengths and knowledge gaps; and,
- lay groundwork for knowledge mobilization activities.

SESSION #1: THURSDAY, MARCH 25, 2021	
<p>Opening remarks</p> <ul style="list-style-type: none"> • Welcome from Social Sciences and Humanities Research Council (SSHRC), Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC) 	1:00-1:15 pm
CONCURRENT PANELS - Attendees may choose which panel to attend.	
<p>Panel 1: Measurements, models and frameworks</p> <ul style="list-style-type: none"> • Ekaterina Rhodes (University of Victoria); Kira Craig (University of Victoria); Aaron Hoyle (Canada Energy Regulator): Improving Climate Policy Projections: A Pan-Canadian Review of Energy-Economy Models • Taco Niet (Simon Fraser University): Increasing the reliability of energy system scenarios with integrated modelling • Eric Miller & Katie Kish (York University): Measuring and managing Canada's use of the Earth's regenerative carrying capacity • Lars Hallstrom & Stacey Haugen (University of Alberta): Carrying capacity surveillance: Indicators and frameworks for equitable sustainability <p>Moderator: Chris McPhee, Innovation Management Specialist, Agriculture and Agri-Food Canada</p>	1:15-2:20 pm
<p>Panel 2: Conservation and ecosystems management</p> <ul style="list-style-type: none"> • Mi Lin (Concordia University): Assessing progress, roadblocks and trade-offs in Canada's contributions to the 2020 Aichi targets - A knowledge synthesis to inform Canada's post-2020 vision for biodiversity and the SDGs • Lorien Nesbitt & Sophie Nitoslawski (The University of British Columbia): Will smarter forests take us farther? Fostering resilient forest ecosystems in the digital era 	

<ul style="list-style-type: none"> • Ella Bowles (Mount Allison University): Interweaving Indigenous Knowledge and Western science towards conservation and management • H.M. Tuihedur Rahman (McGill University); Victoria Papuga & Krysta Sutton (Dalhousie University): Using carrying capacity measures to guide the transformation of coastal governance systems for sustainability <p>Moderator: Nicodemus Paul, Director, Indigenous Strategy, SSHRC</p>	
Q&A session	2:20-2:50 pm
<p>Closing remarks</p> <ul style="list-style-type: none"> • Panel 1: Chris McPhee, Agriculture and Agri-Food Canada • Panel 2: Nicodemus Paul, SSHRC 	2:50 -3:00 pm

SESSION #2: THURSDAY, APRIL 1, 2021

<p>Welcome and opening remarks</p> <ul style="list-style-type: none"> • Welcome from Social Sciences and Humanities Research Council (SSHRC), Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC) 	1:00-1:15 pm
<p><u>CONCURRENT PANELS</u> - Attendees may choose which panel to attend.</p> <p>Panel #3 - Understanding and influencing behaviours for change</p> <ul style="list-style-type: none"> • Ravi de Costa & Ida Ferrara (York University): Behavioural insights for living within the earth's carrying capacity • Mark Fettes (Simon Fraser University): Living within earth's carrying capacity - Towards an education for eco-social cultural change • Eric Higgs, Tim Alemanciak & Sonia Voicescu (University of Victoria): Ecological restoration - nature-based solutions for climate mitigation and engaging Canadians with Nature • Eric Pineault (Université du Québec à Montréal): Social metabolism: an analytical framework for living collectively within the earth's limit capacities • Vikas Menghwani & Hisham Zerriffi (University of British Columbia): Understanding the impact of ICT use and mobility innovation on travel behavior and related GHG emissions for Canada <p>Moderator: Gisèle Yasmeen, Executive Director, Food Secure Canada</p> <p>Panel #4 - Sustainability in industries and sectors</p> <ul style="list-style-type: none"> • Grant McSorley (University of Prince Edward Island) & Hayden Woodley (Ivey School of Business): Sustainable engineering practices - Current state and future challenges • Laura U. Marks, Stephen Makonin & Alejandro Rodriguez-Silva (Simon Fraser University); Radek Przedpełski (Trinity College Dublin): Tackling the carbon footprint of streaming media • Vivian Nguyen (Carleton University); Kelly Bronson (University of Ottawa): What are the knowledge gaps for evaluating the social impacts and effectiveness of "Living Labs" focused on environmental and agricultural sustainability? 	1:15-2:20 pm

Moderator: Nadim Kara, Senior Policy Analyst, Natural Resources Canada	
Q&A session	2:20-2:50 pm
Closing remarks <ul style="list-style-type: none"> Panel 3: Gisèle Yasmeen, Food Secure Canada Panel 4: Nadim Kara, Natural Resources Canada 	2:50 -3:00 pm

SESSION #3: WEDNESDAY, APRIL 7, 2021	
Welcome and opening remarks <ul style="list-style-type: none"> Welcome from Social Sciences and Humanities Research Council (SSHRC), Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC) 	1:00-1:15 pm
CONCURRENT PANELS - Attendees may choose which panel to attend. Panel #5 - Just transitions and the circular economy <ul style="list-style-type: none"> Tamara Krawchenko (University of Victoria); Diana Gibson (Community Social Planning Council); Megan Gordon (University of Northern British Columbia): How can we manage a just energy transition? A comparative review of policies to support the just transition from carbon intensive industries Nino Antadze (University of Prince Edward Island); Katharine McGowan (Mount Royal): Toward envisioning and implementing just transitions to a post-carbon society in Canada Emmanuel Raufflet & Geoffrey Lonca (HEC Montréal): Circular economy and planetary boundaries Geoffrey McCarney (University of Ottawa): Planetary boundaries, global material demand and the emerging circular economy - Canadian perspectives Moderator: Anna van der Kamp, Director, Policy Analysis and Coordination, Natural Resources Canada	1:15-2:20 pm
Panel #6 - Healthy communities <ul style="list-style-type: none"> Gordon McBean & Paul Kovacs (The University of Western Ontario): Building climate resilient communities - Living within the earth's carrying capacity Daina Mazutis (University of Ottawa): The business of accelerating sustainable urban transformations in Canada Jennie Moore (British Columbia Institute of Technology); Claudiane Ouellet-Plamondon (Université du Québec): Measuring and managing living within earth's carrying capacity at the city scale Mahdi Shahbakhti & Alvaro Osornio Vargas (University of Alberta): Urban carrying capacity under cold climate for transportation generated air pollution and public exposure Moderator: Blair Feltmate, Professor & Head of the Intact Centre on Climate Adaptation, University of Waterloo	
Q&A session	2:20-2:50 pm
Closing remarks	2:50 -3:00 pm

<ul style="list-style-type: none"> Panel 5: Anna van der Kamp, Natural Resources Canada Panel 6: Blair Feltmate, University of Waterloo 	
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SESSION #4: WEDNESDAY, APRIL 14, 2021	
<p>Welcome and opening remarks</p> <ul style="list-style-type: none"> Welcome from Social Sciences and Humanities Research Council (SSHRC), Canadian Institutes of Health Research (CIHR) and the Natural Sciences and Engineering Research Council (NSERC) 	1:00-1:15 pm
<p>CONCURRENT PANELS - Attendees may choose which panel to attend.</p> <p>Panel #7 - Social determinants of health, inequities and climate change</p> <ul style="list-style-type: none"> Bipasha Baruah (The University of Western Ontario): What does degrowth say about gender equality and social justice? Synthesizing the evidence Shelby Yamamoto (University of Alberta): Mind the gap - Assessing climate change vulnerability across populations Sean Kidd (University of Toronto); Mariya Bezgrebelna (York University): Climate change and homelessness - Generating a response framework <p>Moderator: Deborah Stienstra, Jarislowsky Chair in Families and Work, Professor of Political Science and the Director of the Centre for Families, Work and Wellbeing, University of Guelph</p> <p>Panel #8 - Protecting freshwater and marine ecosystems</p> <ul style="list-style-type: none"> Kimberley Gilbride, Rania Hamza & Patricia Hania (Ryerson University): 'Contaminants of emerging concern' in wastewater - Are current analytical technologies, policy development and industry guidelines enough to protect human and ecological health? Shooka Karimpour (York University): The fate and transport of micro plastics in aquatic ecosystems - Synthesis and directions for future research Atanu Sarkar & Om Prakash Yadav (Memorial University of Newfoundland): Contamination of marine ecosystem by Persistent Organic Pollutants (POPs) originating from landfills, current waste management practices, public perceptions, and sustainable solutions - A study Steven Cooke (Carleton University): Developing an evidence-based toolbox for addressing freshwater biodiversity threats <p>Moderator: Karen Kidd, Professor, Jointly in School of Earth, Environment, & Society, and Department of Biology, and Stephen A. Jarislowsky Chair in Environment and Health, McMaster University</p>	1:15-2:20 pm
<p>Q&A session</p>	2:20-2:50 pm
<p>Closing remarks</p> <ul style="list-style-type: none"> Panel 7: Deborah Stienstra, University of Guelph Panel 8: Karen Kidd, McMaster University 	2:50 - 3:00 pm