



Smart Prosperity
Institute



AGENDA

Economics and Environmental Policy Research Network (EEPRN)

Research
Symposium

October 29th - 30th 2018

SSHRC  CRSH

 uOttawa
Institut de l'environnement
Institute of the Environment

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 Environnement et
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Climate Change Canada

Economics and Environmental Policy Research Network

Research Symposium

October 29th – 30th, 2018

Desmarais Building (Rm 12102), 55 Laurier Avenue East, University of Ottawa

AGENDA

DAY 1: 29th OCTOBER, 2018

8.00: COFFEE & CONTINENTAL BREAKFAST

8.30-8.45: INITIAL REMARKS & WELCOME (Rm 12102)

- ❖ **Stewart Elgie**: University of Ottawa / Smart Prosperity Institute & EEPRN Chair
- ❖ **ECCC**: Warren Goodlet (Acting Director General, Economic Analysis Directorate)

8.45-10.15: PROTECTED AREAS AND SPECIES AT RISK: Plenary (Rm 12102)

- ❖ **Session Introduction [5mins]**: Vic Adamowicz (University of Alberta) - Session Moderator
- ❖ **Keynote #1 [20mins]**: Christian Langpap (Oregon State University): *Economics of the US Endangered Species Act – Lessons Learned and Research Needs.*
- ❖ **Keynote #2 [20mins]**: Eli Fenichel (Yale University): *Ecosystem-based approaches to Natural Capital Provision: A Natural Capital approach to Caribou Conservation*
- ❖ **ECCC Discussant [10mins]**: Maria Klimas (Economist, Economic Analysis Directorate)
- ❖ **Open Discussion [35mins]**

10.15-10.30: DISCUSSION BREAK [Coffee Served]

10.30-12.30: PROTECTED AREAS AND SPECIES AT RISK: Parallel sessions

1. SPECIES AT RISK AND MBI APPLICATIONS ON PUBLIC LANDS (Rm 12012)
2. ECONOMIC INCENTIVES FOR PROTECTED AREAS AND BIODIVERSITY CONSERVATION ON PRIVATE LANDS (Rm 4101)

Panel #1: Species at Risk and MBI Applications on Public Lands (Rm 12102)

- ❖ **Session Introduction [5mins]**: Vic Adamowicz (University of Alberta) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]**:
 - Stewart Elgie (University of Ottawa/Smart Prosperity Institute)
 - Deborah McGregor (York University)
 - Trevor Swerdfager (Parks Canada)
 - Kai Chan (University of British Columbia)
 - Janet Sumner (CPAWS)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

Panel #2: Economic Incentives for Protected Areas and Biodiversity Conservation on Private Lands (Rm 4101)

- ❖ **Session Introduction [5mins]:** Peter Boxall (University of Alberta) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]:**
 - Chad Lawley (University of Manitoba)
 - Leigh Raymond (Purdue University)
 - Alex Lefebvre (AAFC)
 - Don Buckingham (CAPI)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

12.30-2.00: LUNCH

1.00-1.45: LUNCH KEYNOTE (Rm 12102)

- ❖ Paul Ekins (University College London): *Key Themes and Knowledge Gaps in Natural Capital Research: An Overview of the GGKP Natural Capital Working Group Research Programme*

2.00-3.00: ECOSYSTEM RISK AND SECURITIZATION: Plenary (Rm 12102)

- ❖ **Session Introduction [5mins]:** Nancy Olewiler (Simon Fraser University) - Session Moderator
- ❖ **Keynote [20 mins]:** Colin Mackie (Leeds University, UK): *Mitigating Ecosystem Risk with Financial Assurance*
- ❖ **ECCC Discussant [10 mins]:** James Arnott (Manager, Industrial Sectors, Chemicals, and Waste Directorate, ECCC)
- ❖ **Open Discussion [25mins]**

3.00-5.00: ECOSYSTEM RISK AND SECURITIZATION: Panel Discussion - Moving beyond the status quo: Enabling the use of economic instruments to securitize ecosystem risks (Rm 12102)

- ❖ **Session Introduction [5mins]:** Nancy Olewiler (Simon Fraser University) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]:**
 - Martin Olszynski (University of Calgary)
 - Jason Dion (Canada's Ecofiscal Commission)
 - Lucija Muehlenbachs (University Calgary)
 - Eric Kimmel (Alberta Energy Regulator)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

5.00-7.00: COCKTAIL RECEPTION

- Desmarais Building (Rm 12102)

End of Day 1

DAY 2: 30th OCTOBER 2018

8.00: COFFEE & CONTINENTAL BREAKFAST

8.30-9.15: ECCC Keynote: Circular Economy Priorities, Opportunities, & Challenges (Rm 12102)

- ❖ **Welcome + Introduction:** Geoff McCarney (University of Ottawa / Smart Prosperity Institute)
- ❖ **ECCC Keynote – Hilary Geller (Assistant Deputy Minister):** Circular economy priorities for ECCC

9.15-9.30: DISCUSSION BREAK [Coffee Served]

9.30-10.30: DISCUSSION PANEL (Plenary): Perspectives on Opportunities/Challenges for a more Circular Economy (Rm 12102)

- ❖ **Session Introduction [5mins]:** David Hughes (The Natural Step) - Session Moderator
- ❖ **Panelists [35mins Moderated Discussion]:**
 - John Coyne (Unilever Canada)
 - Jean Simard (Aluminium Association)
 - Adam Auer (Cement Association)
 - Stephanie Cairns (Smart Prosperity Institute)
- ❖ **General Discussion/Working Session on Research Needs [20mins]**

10.30-12.30: DISCUSSION PANEL (Plenary): Policy Drivers for Greater Resource/Material Efficiency (Rm 12102)

- ❖ **Session Introduction [5mins]:** Nancy Olewiler (Simon Fraser University) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]:**
 - Paul Ekins (University College London)
 - Eli Fenichel (Yale University)
 - Sophie Bernard (Montréal Polytechnique / EDDEC)
 - Dale Beugin (Canada's Ecofiscal Commission)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

12.30-2.00: LUNCH (Rm 4101)

2.00-4.00: PARALLEL SESSIONS:

1. TRANSITIONING TO A CIRCULAR ECONOMY (SYSTEM DYNAMICS & CHALLENGES) [Rm 12102]
2. ADVANCING RESEARCH ON NATURAL INFRASTRUCTURE [Rm 4101]

Parallel Session #1: Transitioning to a Circular Economy (System Dynamics & Challenges) (Rm 12102)

- ❖ **Session Introduction [5mins]:** Stephanie Cairns (Smart Prosperity Institute) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]:**
 - Emmanuel-Benoit Raufflet (HEC Montréal / EDDEC)
 - Jacinthe Séguin (Director, Plastics Initiative, ECCC)
 - Merrell-Ann Phare (Centre for Indigenous Environmental Resources)
 - Usman Valiante (Corporate Policy Group)
 - Steven Williams (Ph.D. Student, UBC)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

Parallel Session #2: Brainstorming Panel: Advancing Research on Natural Infrastructure (Rm 4101)

- ❖ **Session Introduction [5mins]:** Kim Smet (University of Ottawa / Smart Prosperity Institute) - Session Moderator
- ❖ **Panelists [55mins Moderated Discussion]:**
 - Natalia Moudrak (Intact Centre on Climate Adaptation, University of Waterloo)
 - Nancy Olewiler (Simon Fraser University)
 - Dimple Roy (International Institute for Sustainable Development)
 - Chad Nelson (Infrastructure Canada)
- ❖ **General Discussion/Working Session on Research Needs [60mins]**

4.00-4.30: WRAP UP & CONCLUDING COMMENTS: Plenary (Rm 12102)

- ❖ **Discussion of Research Agenda and Next Steps:** Stewart Elgie (University of Ottawa / Smart Prosperity Institute & EEPRN Chair)
- ❖ **ECCC Concluding Comments:** Warren Goodlet (Acting Director General, Economic Analysis Directorate)

End of Day 2

**EVENING, October 30th (5.30pm): INTERNATIONAL INSTITUTE FOR SUSTAINABLE DEVELOPMENT
COMPREHENSIVE WEALTH REPORT PUBLIC LAUNCH EVENT:**

- Location: Faculty of Social Sciences Building (FSS Rm 4007), University of Ottawa, 120 University Private, Ottawa, ON K1N 6N5
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Christian Langpap

Christian is an Associate Professor at Oregon State University. His research emphasis is on the economics of endangered species conservation, private provision of public goods by environmental nonprofits, and environmental impacts of agricultural policies. Past projects have focused on modeling incentives for conservation of endangered species on private land, assessing the effectiveness of endangered species recovery legislation, evaluating the effects of enforcement of the Clean Water Act through private lawsuits, and examining the environmental impacts of biofuel mandates.

Current projects include the role of litigation in endangered species conservation, public good provision and donations to environmental nonprofits, and incentives for fire risk mitigation on private forests. His publications have appeared in the *Journal of the Association of Environmental and Resource Economists*, *Journal of Environmental Economics and Management*, *Proceedings of the National Academy of Sciences*, *American Journal of Agricultural Economics*, *Land Economics*, *Environmental and Resource Economics*, and the *Journal of Regulatory Economics*.



Eli Fenichel

Eli is an Associate Professor at the Yale School of Forestry & Environmental Studies. His research approaches natural resource management and sustainability as a portfolio management problem by considering natural resources as a form of capital. He is interested in how people can and do allocate natural resources and natural resource risks through time. This leads to a strong interest in feedbacks among humans, ecosystems, and the management of coupled ecological-economic processes. His research is applied in a wide variety of systems including: natural capital valuation, fisheries, infectious disease, groundwater, tropical forests, and grasslands.

He currently has a number of ongoing projects, addressing two interconnected questions: First, how do forward-looking human decisions and ecological dynamics feedback, and what does this mean for management of ecological systems? Second, how can we think about natural resources as forms of capital, and how do we move this thinking from a metaphor that is useful for guiding intertemporal management to broader application so that natural capital interfaces smoothly with traditional forms of capital?



Paul Ekins

Paul is a Professor of Resources and Environmental Policy at, and Director of, the Institute for Sustainable Resources at University College London. He is also Deputy Director of the UK Energy Research Centre, and the UKERC Co-Director leading on its Energy Resources theme, with research publications on low-carbon futures, fossil fuels and hydrogen. In addition, he is a member of UNEP's International Resource Panel and a Fellow of the Energy Institute. He is a member of Ofgem's high-level Sustainable Development Advisory Group, and was Chairman of the Government-funded National Industrial Symbiosis Programme (NISP), the UK's most successful programme to improve resource productivity. From 2002-2008 he was a Member of the Royal Commission on Environmental Pollution. From 1997-2005 he was a specialist adviser to the Environmental Audit Committee of the House of Commons, from 2003-2007 was a Member of the Government's Sustainable Energy Policy Advisory Board, and in 2007 was a Specialist Adviser to the Joint Parliamentary Committee on the Climate Change Bill. He has extensive experience consulting for business, government and international organisations, which has included over 50 projects and consultancies over the last ten years, and many advisory positions. Since 2015, he has been a member of the European Commission's High-Level Panel on the European Decarbonisation Pathways Initiative. He is currently Co-Chair of UN Environment's sixth edition of the Global Environmental Outlook (GEO-6) and of the Green Growth Knowledge Platform (GGKP)'s Research Committee on Natural Capital. In 2015 he was awarded an OBE in the UK's New Year's Honours List for services to environmental policy.

His academic work focuses on the conditions and policies for achieving an environmentally sustainable economy, and he is an authority on a number of areas of energy-environment-economy (E3) interaction and environmental policy, including: sustainable development assessment methodologies; resource productivity; sustainable energy use; E3 modelling and scenarios; the adjustment of national accounts to take account of environmental impacts; environmental economic instruments and ecological tax reform; sustainable consumption; and environment and trade. He is the author of numerous papers, book-chapters and articles in a wide range of journals, and has written or edited twelve books, including *Global Warming and Energy Demand* (Routledge, 1995); and *Economic Growth and Environmental Sustainability: the Prospects for Green Growth* (Routledge, London, 2000). His most recent books of which he is editor or co-editor are *Environmental Tax Reform: a Policy for Green Growth* (Oxford University Press, Oxford, 2011); *Energy 2050: the Transition to a Secure, Low-Carbon Energy System for the UK* (Earthscan, London, 2011); *Global Energy: Issues, Potentials and Policy Implications* (Oxford University Press, Oxford, 2015).



Colin Mackie

Colin is a Lecturer in Business Law at Leeds University. He joined the School of Law in February 2017, and was previously a lecturer in law at the University of Aberdeen (2013-2017). He studied law at the University of Manchester. After completing a training contract with the international law firm, Pinsent Masons LLP, he undertook an AHRC-funded Ph.D. titled *Corporate Structures and Environmental Liability under EU Law* at the University of Aberdeen, which he completed in May 2013.

His teaching and research interests lie in the field of company/corporate law and environmental law, with a particular focus on corporate environmental liability and issues associated with it. Recent publications include, *Financial Provision for Environmental Liabilities: practical guide* (2017), *Self-insuring environmental liabilities: a residual risk-bearer's perspective* (2016), *Financial Provision: protecting the environment and the public purse* (2016), *The Regulatory Potential of Financial Security to Reduce Environmental Risk* (2014).

Between December 2015 and December 2017, he was a member of a project team led by the Irish Environmental Protection Agency and the Scottish Environment Protection Agency looking at the issue of financial provision for environmental liabilities. The project was funded by IMPEL (European Union Network for the Implementation and Enforcement of Environmental Law).



Hilary Geller

Ms. Geller joined Environment and Climate Change Canada in June 2017 as the Assistant Deputy Minister of the Strategic Policy Branch.

The Strategic Policy Branch has a leadership role within the Department in a number of areas, including strategic policy development, agenda management, policy planning, results and delivery, intergovernmental affairs, economic analysis, sustainable development strategies and indicators, regional analysis, outreach and program delivery. Through the Regional Directors General Offices, the Branch supports the Department's overall goals and objectives by managing relations with the regions and associated key stakeholders.

Previously, Ms. Geller worked at Health Canada, where she was the Assistant Deputy Minister of the Healthy Environments and Consumer Safety Branch (HECSB) from May 2011 to June 2017. A regulatory and scientific branch, HECSB works under various pieces of legislation to assess, manage and regulate a diverse range of issues in the areas of tobacco, controlled drugs and substances, environmental contaminants, consumer products, radiation and workplace chemicals. Prior to this role, she was Director General of Policy, Planning and Integration in HECSB from 2009 to 2011.

Ms. Geller has a Bachelor of Commerce from the University of Toronto, and a Master in Business Administration from York University.

Participant List

Adam Auer	Cement Association of Canada
Alan Painter	Environment and Climate Change Canada
Alejandro DeMaio-Sukic	Agriculture and Agri-Food Canada
Alex Lefebvre	Agriculture and Agri-Food Canada
Alexandra McLeod	Embassy of the Federal Republic of Germany
Andreas Aure	Royal Norwegian Embassy
Andrew Sharpe	Centre for the Study of Living Standards
Anne Waddell	Centre for Research and Innovation in the Bio Economy
Caroline Seward	Environment and Climate Change Canada
Carolyn Cahill	Statistics Canada
Chad Lawley	University of Manitoba
Chad Nelson	Infrastructure Canada
Christelle Grondin	Environment and Climate Change Canada
Christian Langpap	Oregon State University
Colin Mackie	University of Leeds
Craig Stewart	Insurance Bureau of Canada
Dale Beugin	Canada's Ecofiscal Commission
Dave Sawyer	EnviroEconomics
David Hughes	The Natural Step Canada
Deborah McGregor	York University
Dimple Roy	International Institute for Sustainable Development
Don Buckingham	Canadian Agri-Food Policy Institute
Erin Down	Environment and Climate Change Canada
Eashan Karnik	University of Ottawa
Eli Fenichel	Yale University
Emilie Brown	Environment and Climate Change Canada
Emmanuel B. Raufflet	HEC Montréal
Eric Kimmel	Alberta Energy Regulator
Gabriel Gagnon	Statistics Canada

George Greene	Stratos
Grant Hogg	Environment and Climate Change Canada
Greg Peterson	Statistics Canada
Gregg Johnstone	Simon Fraser University
Henry Smith	Environment and Climate Change Canada
Hilary Geller	Environment and Climate Change Canada
Isabelle Turcotte	Pembina Institute
Jacinthe Séguin	Environment and Climate Change Canada
James Arnott	Environment and Climate Change Canada
Janet Sumner	Canadian Parks and Wilderness Society
Jason Dion	Canada's Ecofiscal Commission
Jean Simard	Aluminium Association of Canada
Jean-Michel Larivière	Environment and Climate Change Canada
Jennifer Allan	Carleton University
John Coyne	Unilever Canada
Jyrki Nissilä	Embassy of Finland
Kara Beckles	Agriculture and Agri-Food Canada
Kai Chan	University of British Columbia
Kelly Torck	Environment and Climate Change Canada
Ken Eng	Environment and Climate Change Canada
Kevin Ahkimmachie	Treaty 8 First Nations of Alberta
Kevin Smith	Environment and Climate Change Canada
Laurel Besco	University of Toronto
Leah Canning	Environment and Climate Change Canada
Leigh Raymond	Purdue University
Line Blåsås Lønnum	Royal Norwegian Embassy
Loic Trottier-Le Bossé	Environment and Climate Change Canada
Lucija Muehlenbachs	University of Calgary
Lusi Xie	University of Alberta
Lydia Sasnovskis	Embassy of the Federal Republic of Germany
Marcelle Grenier	Statistics Canada
Maria Climas	Environment and Climate Change Canada

Marian Weber	InnoTech Alberta
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Martin Olsynski	University of Calgary
Maya Papineau	Carleton University
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Miriam Beulting	Embassy of the Federal Republic of Germany
Nancy Olewiler	Simon Fraser University
Natalia Moudrak	Intact Centre, University of Waterloo
Nathalie Chalifour	University of Ottawa
Nick Robelek	University of Ottawa
Paul Ekins	University College London
Paul Sandage	Environment and Climate Change Canada
Peter Boxall	University of Alberta
Peter Morrison	University of Ottawa
Philip Astles	Agriculture and Agri-Food Canada
Philippe Descheneau	Environment and Climate Change Canada
Philippe Thierry Douamba	University of Ottawa
Rafael Ziegler	Institut de l'ÉDDEC (Environnement, développement durable et de l'économie circulaire)
Robert Laroque	Forest Products Association of Canada
Robert Smith	Midsummer Analytics
Ryan Katz-Rosene	University of Ottawa
Sandy Scott	Environment and Climate Change Canada
Sarah Fraser	Environment and Climate Change Canada
Sharlene Alook	Treaty 8 First Nations of Alberta
Sophie Bernard	Polytechnique Montréal
Stephanie Cairns	Smart Prosperity Institute
Steve Barrill	Statistics Canada
Steve Williams	University of British Columbia
Stewart Elgie	Smart Prosperity Institute/University of Ottawa
Susan Preston	Environment and Climate Change Canada

Sylvain Charbonneau	University of Ottawa
Tamunobelema Itamunoala	University of Ottawa
Trevor Swerdfager	Parks Canada
Tulay Yildirim	Canadian Agri-Food Policy Institute
Tuulikki Olander	Embassy of Finland
Usman Valiante	Corporate Policy Group
Valerie Sexton	Environment and Climate Change Canada
Vesa Lehtonen	Embassy of Finland
Vic Adamowicz	University of Alberta
Warren Goodlet	Environment and Climate Change Canada

About the EEPRN

The Economics and Environmental Policy Research Network (EEPRN), hosted by uOttawa's Institute of the Environment in partnership with Environment and Climate Change Canada (ECCC) and the Smart Prosperity Institute (SPI), works to fund and disseminate cutting edge research on economics and environmental policy priorities for Canada, from our network of over 100 academics across Canada, and internationally.

This project is undertaken with the financial support of the Government of Canada through Environment and Climate Change Canada. This initiative aims at enhancing ECCC's capacity to integrate environmental and economic policy considerations and research into its regulatory functions.

The Network mobilizes over 100 scholars from Canadian universities as well as internationally. The Network builds connections and capacity, fosters greater dialogue between academics and government partners, and generates innovative, policy-relevant research.

