

Curriculum Vitae

Alexandra Mallett

Associate Professor and Supervisor – Master of Arts (MA) in Sustainable Energy (SE), School of Public Policy and Administration (SPPA), Carleton University, Ottawa, ON, Canada

alexandra.mallett@carleton.ca

A EDUCATION

Ph.D. in Development Studies 2004-2010

London School of Economics and Political Science (LSE), London, UK

Thesis title: Technology Adoption, Cooperation and Trade and Competitiveness Policies:

Re-examining Renewable Energy Technology (RET) adoption in urban Latin America using systemic approaches

Supervisors: Dr Tim Forsyth and Dr Ken Shadlen, Development Studies Institute (DESTIN)

Continuing Education, School of Public Policy and Administration 2002

Carleton University, Ottawa, ON, Canada

Cost Benefit Analysis graduate level course

Master of Arts in International Development Studies 1997-1999

Dalhousie University, Halifax, NS, Canada

(Thesis title: Urban Poverty amongst Youth in Santo Domingo, Dominican Republic)

Honours Bachelor of Arts 1992-1996

University of Toronto, Toronto, ON, Canada

(Specialist: International Relations; Minor: Environmental Studies)

B EMPLOYMENT

1. **Academic Research Employment**

Associate Professor in Sustainable Energy Policy 2010-Present

School of Public Policy and Administration (SPPA)

Carleton University, Ottawa, Canada

Research on sustainable energy, especially in developing world and North America (including innovation, technology cooperation), such as alternative energy policies and technologies for the Canadian Arctic and framing of smart grids in the Canadian and U.S. media

Research on the governance of natural resources, with a focus on the mining sector in Brazil

Research assessing environmental policy instruments targeting the private sector (focus areas include the promotion of low carbon technologies and water management in the context of climate change)

Responsible for teaching several graduate-level courses and one undergraduate course on public policy (policy analysis and science, technology and innovation policy) and sustainable energy policy (to engineering students)

Actively involved in the curriculum, admissions process, development and the administration of the master's program in sustainable energy engineering and policy (e.g. Graduate Supervisor for Sustainable Energy Policy program in 2015 and 2018-present) and the master's program in public policy and administration

Visiting Fellow 2011-2013 **and Research Fellow** 2008-2010

Sussex Energy Group, Science and Technology Policy Research (SPRU), University of Sussex, Brighton, United Kingdom

Conducted research and analysis on the transfer of low carbon energy technologies to developing countries, with a focus on India and more recently China. Specific areas of scrutiny include Intellectual Property Rights (IPRs); joint research, development, deployment and dissemination (RDD&D) initiatives; and organizational and systemic / institutional barriers

Wrote reports for United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) and United Nations Industrial Development Organization (UNIDO)

Contributor to United Nations Environment Programme (UNEP)'s Renewable Energy Chapter for their Green Economy report, Fall 2009

Research Assistant 2007-2008

Center for Science, Technology and Public Policy (CSTPP), Humphrey Institute for Public Affairs, University of Minnesota, Minneapolis, MN, United States

Conducted research and analysis regarding policy options, barriers, costs and benefits on energy savings measures for the State of Minnesota – focus on stationary energy sources and testified to Minnesota Senate Energy Committee on Energy Savings Report

2. Policy / Non-Profit Employment

Canadian Science Policy Fellow (Faculty) 2016-2017

Clean Technology Task Team, Innovation and Energy Technology Sector, Natural Resources Canada, Ottawa, ON, Canada

Analysis and briefing for senior executives on various topics related to clean technology Treasury Board Submission (TB Sub) work on delivery and expected results of clean technology programs

Led seminars on innovation for NRCan officers and presented research on sustainable energy innovation

Advisor 2006-2007

United Nations Fund for International Partnerships (UNFIP), New York, NY, US

(Pro Bono) Post project evaluation of several renewable energy projects (Commercializing Renewable Energy in India (CREI) and Brazilian Rural Energy Enterprise Development (BREED))

Policy Advisor 2002-2004

Americas Branch, International Relations Directorate Environment Canada (EC), Gatineau, PQ, Canada

Conducted policy advice on global, regional and local environmental issues including: key bilaterals (United States, Brazil), Summit of the Americas follow up work, engagement of regional organizations (e.g. Organization of American States (OAS)), and trade and environment issues

Policy Analyst 2000-2002

**International Environment Policy Division, Energy Policy Branch
Natural Resources Canada (NRCan), Ottawa, ON, Canada**

Negotiator for technology transfer, policies and measures, and developing country issues (e.g. developing country engagement, Clean Development Mechanism, adaptation and vulnerability issues) and compliance for the United Nations climate change process

Professional Trainee/Consultant 1999-2000
Unit of Sustainable Development and Environment (USDE)
Organization of American States (OAS), Washington, DC, US

Organized workshop on vulnerability reduction in Tegucigalpa, Honduras aimed at civil servants, and NGOs – prepared funding proposals and reports for World Bank, Inter-American Development Bank (IDB), and United States Agency for International Development (USAID)

Fundraising Coordinator / Administrator 1997
Street Kids International, Toronto, ON, Canada

Organized Spring 1997 fundraising campaign and assisted with the administration of the organization

C PROFESSIONAL HONOURS

Prizes and Honours

Canadian Science Policy Fellow 2016
 Mitacs¹, to work on clean technology and innovation policies at Natural Resources Canada (NRCan)

Excellence in Teaching Award - Student Society 2016 and 2019
 School of Public Policy and Administration (SPPA), Carleton University, Ottawa, ON, Canada

Green Gown Award 2009
 For most exceptional environmental research in the United Kingdom, for work conducted at the University of Sussex on the barriers to the transfer of low carbon energy technologies to developing countries (India) with Jim Watson, David Ockwell, Gordon MacKerron and Ruediger Haum (SPRU) and TERI team

Instant Award 2004
 Policy & Communications, Environment Canada, Health and Environment Ministers of the Americas (HEMA) process

D PUBLICATIONS

(Note that * = a student I supervised or worked with)

1. Refereed Scholarly Publications

Articles in Refereed Journals

Afful-Dadzie, Anthony, **Alexandra Mallett** and Eric Afful-Dadzie (2020) “The Challenge of Energy Transition in the Global South: The Case of Electricity Generation Planning in Ghana” *Renewable and Sustainable Energy Reviews*. Journal Impact Factor (2018) = 10.556, 5 year (2017) = 10.093

Hanson Pastran, Sasha* and **Alexandra Mallett** (2020) “Unearthing Power: A Decolonial Analysis of the Samarco Mine Disaster and the Brazilian Mining Industry” *the Extractive Industries and Society*, Journal Impact Factor (2018) = 2.064

Mallett, Alexandra, and David Cherniak* (2018) “Views from Above: Entrepreneurship and Climate Policy for Electricity in Canada’s Arctic” *Regional Environmental Change* Online, Special

¹ Mitacs, formerly called the Mathematics, Information Technology and Complex Systems, is a non profit organization in Canada that funds industrial and social innovation in Canada www.mitacs.org

Issue on Policy Entrepreneurship and Climate Policy Innovation, 11 (5): 1323-1336, <https://doi.org/10.1007/s10113-018-1317-7>, Journal Impact Factor (2017) = 2.919, 5 year (2016) = 3.153

Mallett, Alexandra, (2018) "Beyond frontier technologies, expert knowledge and money: New parameters for innovation and energy systems change" *Energy Research and Social Science* 39: 122-129, <https://doi.org/10.1016/j.erss.2017.11.017>, Journal Impact Factor (2017): 3.815 (journal created in 2014; 2017 is the first year for an Impact Factor)

Mallett, Alexandra, Jennie C. Stephens, Elizabeth Wilson, Ryan Reiber*, Ria Langheim and Tarla R. Peterson (2018) "Electric Connections: News Coverage of Smart Grid in the U.S. and Canada", *Renewable and Sustainable Energy Reviews*, Special Issue on Smart Grids in North America, 82, Part 2: 1913-1921, <https://doi.org/10.1016/j.rser.2017.06.017> Journal Impact Factor (2018) = 10.556, 5 year (2017) = 10.093

Mallett, Alexandra, Xavier D. Pillion*, Ryan Reiber*, Daniel Rosenbloom, and Maya Jegen, (2018) "Smart grids framing through smart meter coverage in the Canadian media: technologies coupled with experiences" *Renewable and Sustainable Energy Reviews*, Special Issue on Smart Grids in North America, 82, Part 2: 1952-1960, <https://doi.org/10.1016/j.rser.2017.06.013>, Journal Impact Factor (2018) = 10.556, 5 year (2017) = 10.093

Peters, Derek*, Jonn Axsen, and **Alexandra Mallett** (2018) "Socio-political acceptance of smart grid as a tool to mitigate climate change in British Columbia" *Renewable and Sustainable Energy Reviews*, Special Issue on Smart Grids in North America, 82, Part 2: 1939-1951, <https://doi.org/10.1016/j.rser.2017.06.020>, Journal Impact Factor (2018) = 10.556, 5 year (2017) = 10.093

Mallett, Alexandra (2016) "Trade and Industry Policy as Levers for Sustainable Energy Technology Adoption? Experiences from Urban Latin America" *Review of Policy Research*, 33 (4): 348-375, <https://doi.org/10.1111/ropr.12183>, Journal Impact Factor (2017) = 1.250, 5 year (2016) = 1.660

Mallett, Alexandra (2015) "International Technology Collaboration and Low Carbon Innovation: Recasting 'Truisms' with insights from emerging economies", *Innovation and Development*, 5 (2): 297-311., <http://dx.doi.org/10.1080/2157930X.2015.1049851> This journal was created by national innovation systems scholar Bengt-Age Lundvall and others in 2011; hence to date, no impact factor number has been assigned

Auld, Graeme, **Alexandra Mallett**, Bozica Burlica*, Francis Nolan-Poupart*, Robert Slater, (2014) "Evaluating the effects of policy innovations: Lessons from a systematic review of policies promoting low-carbon technology" *Global Environmental Change*, 29: 444-458, <https://doi.org/10.1016/j.gloenvcha.2014.03.002>, Journal Impact Factor (2017) = 6.371, 5 year (2017) = 8.897

Mallett, Alexandra (2013) "Technology Cooperation for Sustainable Energy– a review of pathways", *Wiley Interdisciplinary Reviews on Energy and the Environment (WIREs)*, 2 (2): 234-50, <https://doi.org/10.1002/wene.54>, Journal Impact Factor (2017) = 2.514, 5 year (2016) = 2.476

Ockwell, David, Ruediger Haum, **Alexandra Mallett** and Jim Watson (2010), "Intellectual Property Rights and Low Carbon Energy Technology Transfer: Conflicting Discourses of Diffusion and Development", *Global Environmental Change* 20 (4): 729-738, <https://doi.org/10.1016/j.gloenvcha.2010.04.009>, Journal Impact Factor (2017) = 6.371, 5 year (2017) = 8.897

Mallett, Alexandra (2007), "Social acceptance of renewable energy innovations: The role of technology cooperation in urban Mexico", *Energy Policy*, 35 (5), 2790-2798., <https://doi.org/10.1016/j.enpol.2006.12.008>, Journal Impact Factor (2017) = 4.039, 5 year (2017) = 5.039

Chapters in Edited Books

Pierre-Olivier Bedard and **Alexandra Mallett** (2019) “The Demand for Evidence in the Canadian Civil Service”, Laval University Series on Democracy and Accountability. Quebec City, QC, Canada, Laval University Press (in French).

David Ockwell and **Alexandra Mallett** (2013) (co-lead). “Low Carbon Innovation and Technology Transfer”. Chapter 8 in F. Urban and J. Nordensvärd (eds.) *Low Carbon Development: Key Issues*. Routledge: Abingdon, UK.

<https://www.routledge.com/Low-Carbon-Development-Key-Issues/Urban-Nordensvard/p/book/9780415539012>

(coordinating authors) T. van Dril and X. van Tilburg, (lead authors) L. Cameron, S. Coelho, H. de Coninck, A. Kumar, **A. Mallett**, J. McLaren, T. Mikunda, J. Sijm, R. Saidi, L. Würtenberger, and P. Zhou (2011) Chapter 6 – “Renewable Energy: Investing in Energy and Resource Efficiency” *Green Economy*, United Nations Environment Programme (UNEP), February 2011

http://www.unep.org/greeneconomy/Portals/88/documents/ger/GER_6_RenewableEnergy.pdf

2. Non-Refereed Publications

Books

Les Pal, Graeme Auld and **Alexandra Mallett** (2020). *Beyond Policy Analysis (BPA)* 6th edition, Nelson Canada, Toronto, ON

Alexandra Mallett (2020), *Renewable Energy Uptake in Urban Latin America: Sustainable Technology in Mexico and Brazil*, Routledge Explorations in Energy Studies (REENS) book series.

Edited Books

David Ockwell and **Alexandra Mallett** (eds). (2012). *Low Carbon Technology Transfer: From Rhetoric To Reality* Routledge: Abingdon, UK., pp. 374.

<https://www.routledge.com/Low-Carbon-Technology-Transfer-From-Rhetoric-to-Reality/Ockwell-Mallett/p/book/9781849712699>

Book Chapters

Matthew Retallack, Graeme Auld, Lisa Mills and **Alexandra Mallett**, (2018), “Radical Transformation or Incremental Tinkering: The Vision and Potential of Canada’s New Impact Assessment Process “, *How Ottawa Spends*.

Policy Briefings

Graeme Auld and **Alexandra Mallett**, “How to Engage in Environmental Policy”, *Network for Business Sustainability*, 2013, <http://nbs.net/knowledge/how-to-engage-in-environmental-policy/>

Watson, Jim, David Ockwell, Rob Byrne, Michele Stua and **Alexandra Mallett** “*Low Carbon Technology Transfer: Lessons from India and China*” Sussex Energy Group Policy Briefing, November 2010, <http://sro.sussex.ac.uk/53027/>

Ockwell, David, Jim Watson, Anne Marie Verbeken, **Alexandra Mallett** and Gordon MacKerron, “*Sussex Energy Group technology proposal for Copenhagen climate change talks*”, 2009, <http://www.sussex.ac.uk/sussexenergygroup/1-2-33-1.html>

Commissioned Research Reports

Cherniak, David*, Vincent Dufresne*, Lawrence Keyte*, **Alexandra Mallett** and Stephan Schott, “*State of Alternative Energy in the Arctic*”, report for **Polar Knowledge Canada (POLAR)**, September 2015.

<https://curve.carleton.ca/08515c6b-3b39-4c41-ad7b-2c6306cf0379>

Auld, Graeme, Bozica Burlica*, **Alexandra Mallett**, Francis Nolan-Poupart*, “*When do climate policies work? Assessing experiences from low carbon technology promotion and water management*”, report for the **Network on Business Sustainability (NBS)**, September 2011.

<http://nbs.net/why-business-should-engage-on-environmental-policy-issues/#http://nbs.net/wp-content/uploads/NBS-Systematic-Review-Policy.pdf>

Watson, J., R. Byrne, M. Stua, D. Ockwell, Z. Xiliang, Z. Da, Z. Tianhou, Z. Xiaofeng, O. Xunmin and **A. Mallett** (2011), “*UK-China Collaborative Study on Low Carbon Technology Transfer - Final Report*” – report for **United Kingdom Department of Energy and Climate Change (DECC)** University of Sussex, Brighton, UK., <http://sro.sussex.ac.uk/41797/>

Mallett, Alexandra, Sheridan Nye and Steven Sorrell, “*Part II: Policy Options – Overcoming the barriers to the adoption of energy efficient technologies in industry*” – Contribution into **United Nations Industrial Development Organization (UNIDO)** Industrial Development Report (IDR) - *Barriers busting in energy efficiency in industry*– report for UNIDO, January 2010

www.unido.org/Data1/Statistics/Utilities/docnew.cfm?id=164&i=1

Steven Sorrell, **Alexandra Mallett** and Sheridan Nye “*Part I: Understanding the barriers to the adoption of energy efficient technologies in industry*” – Contribution into **United Nations Industrial Development Organization (UNIDO)** Industrial Development Report (IDR) - *Barriers busting in energy efficiency in industry*– report for UNIDO, January 2010

www.unido.org/Data1/Statistics/Utilities/docnew.cfm?id=161&i=1

Ockwell, David with contributions from Jim Watson, **Alexandra Mallett**, Ruediger Haum, Gordon MacKerron, and Anne-Marie Verbeken “*Scoping Note on the Difficulties Developing Countries Face in Accessing Markets for Eco-Innovation*” – paper for the **Organization for Economic Cooperation and Development (OECD)**, 2010, <https://doi.org/10.1787/5kmfplm8xxf5-en>

Mallett, Alexandra with input from Rob Byrne, David Ockwell, Tao Wang and Jim Watson “*Low Carbon Development Path – Importance, Perspectives and Trends*” - paper for the **United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP)**, August 2009 and updated April 2010 Provided substantial input into this study:

<http://www.unescap.org/sites/default/files/Energy%20Resources%20Development%20Series%2041.pdf>

Mallett, Alexandra, David Ockwell, Prosanto Pal, Amit Kumar, Dr. Y Abbi, Jim Watson, Ruediger Haum, Gordon MacKerron, and Girish Sethi “*UK-India Collaborative Study - Barriers to the Transfer of Low Carbon Energy Technology: Phase II*” – report for **United Kingdom Department for Energy and Climate Change (DECC)** March 2009 (Peer Reviewed, Eric Haites, Margaree Consultants and Merylyn Hedger, IDS, University of Sussex)

<https://www.sussex.ac.uk/webteam/gateway/file.php?name=decc-uk-india-carbon-technology-web.pdf&site=264>

Mallett, Alexandra, Dane McFarlane*, Steve Kelley, “*Energy Savings Report – State of Minnesota*” A report on barriers, costs, benefits and policy options on energy savings strategies for public buildings in the State of Minnesota, report for **Minnesota Department of Commerce**, February 2008

http://www-test.hhh.umn.edu/centers/stpp/pdf/energy_savings_report_feb2008.pdf

Creative Publications

Ockwell, David, Adrian Ely, **Alexandra Mallett**, Oliver Johnson, and Jim Watson, “*Low Carbon Development: the Role of Local Innovative Capacities*”, September 2009, STEPS Working Paper 31, Brighton: STEPS Centre and Sussex Energy Group, SPRU, University of Sussex.

<http://anewmanifesto.org/wp-content/uploads/ockwell-et-al-paper-31.pdf>

- **Lead** on Memo from Carleton Research Unit on Innovation, Science and Environment (CRUISE), to the Canadian Federal Government’s Expert Panel regarding the Review of Federal Support to Research and Development (R&D) in Canada, February 2011
- **Op-ed Articles:** **Mallett, Alexandra**, James Meadowcroft, Stephan Schott and Glen Toner, “*Contributing to Canada’s Energy Literacy: Educating a Potential Energy Superpower*” the Hill Times, December 2010, <http://www.hilltimes.com/page/view/literacy-12-6-2010>

E RESEARCH AWARDS / SCHOLARSHIPS

Research Awards Obtained (in CDN dollars)

Future Energy Shift, (2019-2021), New Frontiers of Research – Exploration Fund (\$250 000), Principal Investigator (PI), Zachary Colbert, co-PI Jean Duquette, co-applicant Alex Mallett

Governing Energy System Change in the Canadian Arctic: Alternative Sources of Innovation in Communities? (2018-2020) Social Sciences and Humanities Research Council (SSHRC) Insight Development Grant, (\$65 500), Principal Investigator (PI) Alex Mallett and collaborator Stephanie Irlbacher-Fox

Governing Natural Resources in a Global Era: Actors, Practices, and Outcomes (2013-2019), Social Sciences and Humanities Research Council (SSHRC) Insight Grant, (\$450 000), PI Graeme Auld, co-applicant Alex Mallett with Lisa Mills, Hevina Dashwood and Robert Slater

Assessing the Political Economy of Brazil’s Mining Sector (2015), component of Governing Natural Resources in a Global Era, PI Graeme Auld, (see above), Mitacs Globalink Program, (estim. \$10 000).

State of Alternative Energy in the Arctic (2014-2015)

Aboriginal Affairs and Northern Development Canada (AANDC), (\$90 000), PIs Alex Mallett and Stephan Schott

Unlocking the Potential of Smart Grids (2012-2015) Social Sciences and Humanities Research Council (SSHRC) Partnership Grant, (\$190 000), PIs James Meadowcroft and Ian Rowlands, co applicant with Mark Winfield, Maya Jegen, Jonn Axsen, Geoff Lewis and Paul Parker

Cost, Problem Impacts and Accountability Implications of Environmental Policy (2010-2011), Network for Business Sustainability (NBS), (\$25 000) PIs Graeme Auld, Alex Mallett and Bob Slater

Research Studentship, (2004-2008) London School of Economics and Political Science (LSE), (~\$12 000)

Canada Study Grant (2006-2007) Government of Canada (\$2000)

Central Research Fund (2006), University of London, Funds for Field Research (~\$1200)

Postgraduate Travel Fund (2006), London School of Economics and Political Science (LSE) (~\$200)

Research Study Award (1998), Dalhousie University, (\$600)

F ENGAGEMENT WITH PROFESSIONAL / POLICY COMMUNITIES

Papers or Presentations at Academic Conferences / Workshops

Moy, Nathalin*, Heather Hayne, and **Alexandra Mallett**, “Approaching Sustainable Energy Transitions Through Bridging Disciplines Together: an Examination of Carleton University’s Graduate Cross-Disciplinary Course in Sustainable Energy”, Paper and Presentation for Canadian Engineering Education Association (CEEA), Vancouver, BC, June 6, 2018

Mallett, Alexandra, Craig Merrett and Nathalin Moy*, “Under Whose Authority? Examining Renewable Energy Processes in Eastern Ontario”, Presentation for the Ontario Network for Sustainable Energy Policy (ONSEP), Picton, ON, April 24, 2018

Mallett, Alexandra, “Energy Transitions Game”, Presentation for Eradicating Poverty through Energy Innovation workshop, Arizona State University, Tempe, AZ, USA, February 13, 2018

Mallett, Alexandra, “Adjusting the innovation system ‘lens’ through experiences with energy system change”, Paper and Presentation for SPRU 50th anniversary conference, University of Sussex, Brighton, UK, September 6, 2016

Mallett, Alexandra and David Cherniak, “Northern Exposure: Climate Policy Innovation on Electricity and Heating in Northwest Territories”, ArcticNet, Vancouver, BC, December 10, 2015

Mallett, Alexandra, “Teaching energy efficiency within our Sustainable Energy Engineering and Policy Program”, Presentation for Workshop on Teaching Energy Efficiency within Higher Education, Toronto, Ontario, July 17, 2014

Mallett, Alexandra, Ryan Reiber*, Daniel Rosenbloom, Xavier Dechenes-Phillion, “When Push Comes to Shove: Public Policies, Social Acceptance and Canadian Smart Grids Experiences through the Media,” Presentation for the Canadian Political Science Association conference, St. Catharines, ON, May 29, 2014

Mallett, Alexandra, Ryan Reiber*, Daniel Rosenbloom, Xavier Deschenes-Phillion, “When Push Comes to Shove: Public Policies, Social Acceptance and Canadian Smart Grids Experiences through the Media”, Presentation for Smart Grids Workshop, Wakefield, QC, May 8, 2014

Mallett, Alexandra, “Precedents and sustainable energy technology cooperation: unravelling social acceptance through urban Latin American experiences with renewable energy sources”, Canadian Association for Latin American and Caribbean Studies (CALACS), Ottawa, Canada, May 3, 2013

Mallett, Alexandra, Ryan Reiber* and Daniel Rosenbloom, “Visions of smart grids in Canada: capturing the ‘pulse’ of the nation through the media”, Presentation for Smart Grids Workshop, Wakefield, QC, May 2, 2013

Mallett, Alexandra, Prosanto Pal, David Ockwell, Ruediger Haum, Jim Watson and Girish Sethi, “Building capacity through Research, Development, Demonstration and Deployment (RDD&D) collaboration: evidence from the transfer of low carbon energy technologies in India”, Presentation at Technology For Development Conference, Lausanne, Switzerland, May 29, 2012

Mallett, Alexandra, “Re-examining clean energy access in developing countries: a view from urban Latin America”, presented at the Association for Public Policy Analysis and Management (APPAM) Conference, Washington, DC, US, November 3, 2011

Policy or Public Presentations

“Increasing Evidence From Policy: Views from the Trenches”, SPPA Seminar Series, Carleton University, Ottawa, ON, March 2, 2018 (reflections on Canadian Science Policy Fellowship)

“Energy Governance Challenges in Canada”, Natural Resources Canada, Energy Resources Branch, June 2017

“Re-examining Innovation – experiences from sustainable energy”, Seminar, Natural Resources Canada, March 31, 2017

“Grasping the Future of Canadian Governance: Using Strategic Foresight to Explore Canada’s Evolving Political Landscape”, Visions of Canada 2042 Conference, Carleton University, March 2, 2017

“State of Alternative Energy in the Arctic”, Ontario Network for Sustainable Energy Policy (ONSEP) and Carleton Sustainable Energy Research Centre (CSERC) webinar, January 21, 2016

“The Private Sector’s Impact on the Environment and Development: Innovative or Exploitative?”, University of Ottawa panel, International Development Week, January 31, 2015, <http://en.aedsa.ca/panelsworkshops.html>

Energy Charrette, Government of Northwest Territories, Yellowknife, NWT, November 3-4, 2014 (participant) http://www.iti.gov.nt.ca/sites/default/files/charrette_report_fnl_web.pdf

“Making the Visions of Energy Transitions Reality in Canada: a ‘Pipe’ Dream or Actuality?” Canadian Association of the Club of Rome, February 19, 2014

“Sustainable Energy Innovation and Technology Cooperation” Presentation for United Nations Educational, Scientific and Cultural Organization (UNESCO), Montreal, Quebec, April 10, 2014.

“Science, Technology and Innovation Policies: Key concepts and debates and policy implications”, Natural Resources Canada, December 2013

“Low Carbon Technology Cooperation: Ways Forward on a Technology Facilitation Mechanism for Workshops 3 and 4 on the Development, Transfer and Dissemination of Clean and Environmentally Sound Technologies”, United Nations Headquarters, New York, New York, USA, May 30-31, 2013.

“Low carbon technology cooperation research in Brazil, Mexico and India” to the West Ottawa chapter of the Ontario Green Party, May 2012

Outreach Session, National Round Table on the Environment and the Economy (NRT), Climate Prosperity report, 2011 (Participant) http://publications.gc.ca/collections/collection_2011/trnee-nrtee/En133-40-3-1-2011-eng.pdf

“UK-India Collaborative Study on Low Carbon Technology Transfer: Lessons for Canada”, presented at Canada – India Innovation conference, Carleton University, June 21, 2011

“Low carbon technology cooperation research in India” to Environment Canada, Science and Technology Policy group, August 2011 and Sustainable Prosperity, February 2012

“Climate Change and Sustainable Energy Policy in Canada: Mostly Questions - Few Answers” – presentation to visiting Georgetown University Students, Carleton University, Ottawa, Canada, March 7, 2011

“The Role of Trade and Competitiveness Policies on the Uptake of Renewable Energy Technologies – evidence from urban Latin America” – panel presentation on Trade and Climate Symposium, International Centre for Trade and Sustainable Development (ICTSD), Cancun, Mexico, December 9, 2010

“UK-India Collaborative Study on Overcoming Barriers to the Transfer of Low Carbon Energy Technologies – Interim Findings” – panel presentation for the 14th Conference of the Parties (COP) on the United Nations Framework Convention on Climate Change (UNFCCC), Poznan, Poland, December 1, 2008

Senate Testimony, State of Minnesota Legislature, *“Energy Savings Report – State of Minnesota”* A report on barriers, costs, benefits and policy options on energy savings strategies for public buildings in the State of Minnesota, March 14, 2008

“Building Bridges between Health and Environment Sectors: the Canadian Experience” – conference presentation for Pan-American Health Organization (PAHO) conference on health and environment in the Americas, Cancun, Mexico, October 24, 2002

“Canadian Approaches to Convention Commitments: Technology Transfer” – conference presentation for United Nations Climate Change Convention (UNFCCC) and United Nations Development Programme (UNDP) workshops on Technology Information, Beijing, China and Technology Needs, Seoul, Korea, April 16 and April 22, 2002

G RESEARCH OVERVIEW / SKILLS

Languages: Native English speaker / writer; fluent in Spanish; intermediate skills in French and in Portuguese (reading and writing)

Fields: Technology, Energy and Environmental Studies / International Relations and Development / Public Policy / Global Studies / Comparative Politics

Geographic Focus: Latin America, emerging economies and developing world, Canada / North America

Themes: Energy – global trends, developing world and emerging economies (Brazil, India, China, Mexico), the Western hemisphere (e.g. Northern communities, Canada and the United States, Latin America); Climate change, energy and environmental politics and policy; governance of natural resources (mining in Brazil); Innovation and science and technology policies; Technology transfer, cooperation and development; Low carbon energy transitions; the urban developing world; social acceptance of energy technologies

Preferred Methods: Qualitative and some quantitative; Case Study; Collaborative; Participant Observation; Interviews; Focus Groups; Surveys; Text-based analysis using software programs (e.g. Atlas-ti, NVivo)

H TEACHING EXPERIENCE

1. Teaching Courses or Tutorials

- **Courses** (all at Carleton University, Ottawa, Ontario, Canada)

Undergraduate Level

PAPM 2000: the Policy Cycle

2015-2016

Graduate level

SERG5000: Cross-Disciplinary Seminar in Sustainable Energy 2011-2015 and 2018
(co-taught with Dr. Tony Peluso, Mr. Alex Beliaev and Ms. Heather Hayne)

SERG 5004: Interdisciplinary Applied Project in Sustainable Energy 2020
(co-taught with Ms. Heather Hayne)

SERG5001: Sustainable Energy Policy for Engineers 2010-2015, 2018-2019

PADM 5611: Science, Technology and Innovation Policy 2012- 2015, 2018

PADM5116: Policy Analysis and Contemporary Governance 2010-2016

PADM5121: Policy Analysis: the Practical Art of Change 2018-2020

- **Tutorials**

Undergraduate level

IND 1002: Introduction to International Development 1997-1999
Dalhousie University, Halifax, Nova Scotia, Canada

Graduate level

ENV5720: Energy and Environmental Policy 2008
University of Minnesota, Minneapolis, Minnesota, US

2. Supervisions

- **Post-doctoral fellows (PDF)**

Nichole Dusyk, 2017-2018, SPPA, Carleton and Pembina, Inclusive and Accessible Energy Governance: Recommendations for the National Energy Board Modernization

- **PhD**

Dissertation

Role: Committee Member

Daniel Rosenbloom, 2015-2019, lead supervisor James Meadowcroft), On socio-technical transitions in Canadian energy systems, SPPA, Carleton

Mohammad Zeiab, 2013-Present, in progress but student is doing a leave of absence, (lead supervisor Stephan Schott) "Sustainability systems in Gulf States", SPPA, Carleton

Brendan Haley, 2011-2015 (lead supervisor James Meadowcroft), "Hydroelectricity and Canadian Low-Carbon Transitions", SPPA, Carleton, defended April 2015

James Gaede, 2012-2014, (lead supervisor James Meadowcroft), "Technologies of Control: the Politics of the Future for Sustainable Energy", SPPA, Carleton, defended April 2014

First Year of Doctoral Degree

Role: Interim Supervisor

Hasmik Minasyan, 2015-2016, SPPA, Carleton, On natural resources governance in Central Asia (mining)

Johanu Botha, 2014-2015, SPPA, Carleton, On disaster management – comparison of Canada and the US including climate adaptation

Doctoral Foreign Exchange program (Brazil)

Role: Interim Supervisor

Eurico Ngunga, 2014-2015, Universidade Federal de Minas Gerais, Brazil, On science, technology and innovation policies in Angola

Catherine Gucciardi Garcez, 2014-2015, Universidade de Brasilia, Brazil, On decentralized electricity policies in Brazil and Canada

Directed Study

Role: Supervisor

Johanu Botha, On disasters and public agency responses, SPPA, Carleton, Fall 2014

- **Masters**

Thesis

Role: Supervisor

Moy, Nathalin, 2018-2020 “An Engineer’s Guide to Public Engagement in Renewable Energy Projects” (co-supervised with Craig Merrett, Department of Mechanical and Aerospace Engineering, Clarkson University, Potsdam, New York, US)

Aman Chahal, 2017 “Teaching an Old Dog New Tricks: overcoming policy barriers for microgrids in Ontario” (committee members Stephan Schott and Maya Papineau (economics)), SPPA, Carleton

Sean Cornelisson, 2015-2016, (co-supervisor with Laura MacDonald (Political Science), “Canadian Mining and Mexican Economic Development”, Institute of Political Economy, Carleton

Joseph Moore, 2009 “Building Technological Capacity in Low Carbon Energy Technology in the Developing World”, Science and Technology Policy Research (SPRU), University of Sussex, Brighton, United Kingdom

Role: Advisor

Derek Peters, 2013-2015, (lead supervisor Jonn Axsen), SFU, socio-political acceptance of smart grids in British Columbia

Major Research Project

Role: Supervisor

Balie Walker, 2019-present, (co-supervisor Lisa Mills), Abandoned Mines in Ontario and the Role of Legislation, SPPA, Carleton

Leo Khoushinsky, 2019-present, Carrying the Burden of Electronic Waste, SPPA, Carleton

Jessica Leis, 2019-present, Community Energy, Sustainability Transitions and Northern Canada, SPPA, Carleton

Oana Spinu, 2017-2018, second reader James Meadowcroft (SPPA and Political Science), “Cooperatives and Renewable Energy - potential lessons learned from Alaska for Nunavut”, SPPA, Carleton

Sasha Hanson Pastran, 2016, second reader Lisa Mills (SPPA), “Unearthing Power: a decolonial analysis of Brazil’s mining sector”, SPPA, Carleton

Tonya Temple, 2015-2016, co-supervisor with Christopher Stoney (SPPA), second reader Heather Dorries, On climate change activities at the municipal level in Canada, SPPA, Carleton

Natalia Jaczkowski, 2014-2015, second reader Amanda Clarke (SPPA), On on-line versus conventional educational credentials and employment, SPPA, Carleton

Sarah Macri, 2014, second reader Stephan Schott (SPPA), On Land use planning and Aboriginals and Renewable Energy, SPPA Carleton

Julien Wu, 2013-2014, second reader Teddy Samy (Norman Paterson School of International Affairs (NPSIA)), On Canada's Trade with China, SPPA, Carleton

Christine Schmalz, 2011-2012, second reader James Meadowcroft (SPPA and Political Science), Raw Power: Evaluating the Current Status and Future Opportunities for Sustainability within the Raw Sugar Sector in Rural Colombia, SPPA, Carleton

Role: Advisor:

David McDine 2012, lead supervisor Christopher Stoney (SPPA), On new technologies and citizen-government engagement, SPPA Carleton

Role: Second Reader

Ben Derochie, 2018, supervisors Stephan Schott (SPPA) and Jean Duquette (engineering), On Renewable Energy Integration in northern Canada, SPPA, Carleton

Ryan Reiber, 2014, supervisor Stephan Schott, On Ontario's Feed in Tariff Policy, SPPA, Carleton

Directed Study

Role: Supervisor

Felix Mercure, 2018, on the 20% renewable energy penetration threshold of utilities (regulations and norms) and its effect on the adoption of renewables in the Canadian territories

Amanda Meliambro, 2016, On Supervised Injection Sites, SPPA, Carleton

Zachary Hayes, 2016, On canola oil and agricultural innovation, SPPA, Carleton

Alexandra Foster, 2014, "From Cradle to Grave: The Life and Death of the EcoENERGY Retrofit – Homes Program", SPPA, Carleton

Nathan Platte, 2014, "The Effects of Energy Supply Contraction on Canadian Cities" SPPA, Carleton

Laurel Carlton, 2014, "Falling Through the Cracks: Development, mining companies, and conflicting accountabilities", SPPA, Carleton

Nicholas Osborne, 2013, "Greening the Aviation Sector in Canada: Policy recommendations", SPPA, Carleton University

Gabrielle Moser, 2012, "Barriers to sustainable energy solutions in South Africa", SPPA, Carleton

Bachelors (Honours)

Role: Supervisor

Keean Nembhard, 2019-present, (co-supervised by Graeme Auld) on climate change adaptation in the Caribbean, Arthur Kroeger College of Public Affairs, Carleton

Lauren Peng, 2017-2018, On grassroots innovation for sustainable energy in India and China, (second reader James Meadowcroft, SPPA and Political Science) Arthur Kroeger College of Public Affairs, Carleton

Vasundhara Saravade, 2015-2016, (second reader Stephan Schott, SPPA) On the potential for green bonds to catalyse private sector investment in climate change, Geography and Environmental Studies, Carleton

Kristina Vivian (co-lead with Lisa Mills), 2014-2015, (second reader Graeme Auld, SPPA), On mining and public policies, Arthur Kroeger College of Public Affairs, Carleton

Harris Burton, 2012-2013, (second reader James Meadowcroft, SPPA and Political Science) "Complexity Theory to Evaluate Feed in Tariffs", Arthur Kroeger College of Public Affairs, Carleton

Caitlin Blacklaws, 2011-2012, (second reader Lisa Mills, SPPA), "Mining and Regulation – Voluntary versus Mandatory options", Arthur Kroeger College of Public Affairs, Carleton

Hayley Morgan (co-lead with Graeme Auld), 2010-2011, (second reader Robert Slater) "Expanded Definition of the Human Right to Water and Its Link to Development in Lebanon", Arthur Kroeger College of Public Affairs, Carleton

Role: Second Reader

Sierra Matis, 2018, (supervisor Susan Phillips), on innovation labs and policy innovation in the Canadian public service, Arthur Kroeger College of Public Affairs, Carleton

Michael Vandrick, 2015, (supervisor Pablo Heinrich), "Promoting Shared Prosperity Through Natural Resource Management: Policy Lessons from Chile and Zambia", Arthur Kroeger College of Public Affairs, Carleton

Mary Werre, 2015, (supervisor Andre Plourde), "An Analysis of the Enbridge Northern Gateway Pipeline Regulatory Process", Arthur Kroeger College of Public Affairs, Carleton

Norhan Awadallah, 2015, (supervisor Stephan Schott), "The Green Pyramid Scheme: a Look into Egypt's Hopeful Shift Towards Sustainable Energy Generation", Arthur Kroeger College of Public Affairs, Carleton

3. Examinations

PhD Dissertation

Bronwyn Lazowski 2019, Engaging beyond the meter: Encouraging residential energy management using smart grid tools, University of Waterloo, Waterloo, ON

Role: External Examiner

Simon Langlois-Bertrand 2014, "Masters of Uncertainty: Social scares and the politics of change in energy policy", Norman Patterson School of International Affairs (NPSIA), Carleton

Role: Internal Examiner

Roberto del Barco Gamarra 2012, "The role of Lithium in Bolivian Development" In Spanish, Development Studies, University of Zacatecas, Zacatecas, Mexico

Role: External Examiner

Masters

Theses

Michael Brown, 2018, "Simulation and Optimization of High-Penetration Wind and Solar Energy for the Canadian High Arctic Research Station", (policy chapter), Department of Mechanical and Aerospace Engineering, Carleton

Role: Internal Examiner

Renee Isaac Saper, 2018, “Design Thinking in the Canadian Public Sector: an exploration of suitability for problem solving in policy development through the use of an interdisciplinary design thinking workshop”, Department of Industrial Design, Carleton
Role: Internal Examiner

Melissa Matis, 2017, “An examination of wake effects for offshore wind power in Lake Ontario” (policy chapter), Department of Mechanical and Aerospace Engineering, Carleton
Role: Internal Examiner

Tshifhiwa Bernard Magoro 2013, “Factors influencing the adoption of renewable energy technology by high energy intensive firms in South Africa” Faculty of Commerce, Law and Management, University of Witwatersrand, South Africa
Role: Internal Examiner

4. **PhD Comprehensive Committees**

PhD Comprehensives committee, with Stephan Schott, Innovation, Science and Environment, for Elen Lemaitre-Curri, Fall 2015-Winter 2016

PhD Comprehensives committee, with Graeme Auld, Innovation, Science, and Environment, for Marc Wickham, Spring-Summer 2014

PhD Comprehensives committee with Phil Ryan, Political Economy, for Sheena Kennedy, Spring-Summer 2012

I ADMINISTRATIVE RESPONSIBILITIES and PROFESSIONAL SERVICES

1. **Academic service (profession)**

- **Conference Organizing Committee Member:** International Sustainability Transitions (IST) conference 2019 (March 2018 – July 2019)
 Carleton University, Ottawa, Canada June 2019. This conference is the preeminent academic conference of scholars working on sustainability transitions and is the first time it will be held outside of Europe.
- **Executive Board Member,** Ontario Network on Sustainable Energy Policy (ONSEP), Fall 2015-Present
- **Peer reviewer for academic journals,** *Cities* (2009), *Climate Policy* (2011), *Energy Policy* (2010, 2011, 2012, 2013, 2017), *Energy Research and Social Science* (2020, 2019, 2018, 2016, 2014), *Environmental Communications* (2018), *Environmental Economics and Policy Studies* (2011), *European Journal of Environmental Policy* (2016), *International Environmental Agreements: Law, Ethics and Policy* (2018), *Nature Climate Change* (2013), *Review of Policy Research* (2019, 2018, 2017), *Sustainability Science* (2018)
- **Reviewer for policy papers and commissioned reports,** Report on Energy Transitions and the Role of Language, Smart Prosperity Institute (2020); Report on Clean Technologies Globally and in Canada, for NRCan (2017); Policy Paper examining carbon revenue mechanisms, for Sustainable Prosperity, (2011)
- **Reviewer for funding agencies** New Frontiers of Research, Canada, Exploration Fund (2019), Social Sciences and Humanities Research Council (SSHRC), external reviewer for Insight Grant (2019), Belmont Forum, Transitions 2 Sustainability, the Netherlands (2017); Mitacs Elevate program, Vancouver, BC, Canada (2017); International Foundation for Science (IFS), Stockholm,

Sweden (agency that supports researchers from developing countries), (2016); COST (Swiss research funding agency (2012, 2016)

- **Reviewer** for European Cooperation in Science and Technology (COST) project proposals, 2015 and 2012
- **Reviewer**, Papers for Globelics, 2014 (Addis Ababa, Ethiopia), 2015 (Havana, Cuba), 2016 (Bandung, Indonesia), 2017 (Athens, Greece), and 2018 (Accra, Ghana)
- **Expert Reviewer**, Intergovernmental Panel on Climate Change (IPCC), 5th Assessment Report (AR5), First Order Draft (FOD), Mitigation, September 2012.

2. Academic service (university)

- **COMMITTEES**

School of Public Policy and Administration (Department)

Hiring Committee, Indigenous Policy and Administration (IPA) faculty search, Fall 2018-Spring 2019

Committee (Chair) on Curriculum – Course on Energy Tools, master’s program in Sustainable Energy Policy and Engineering, 2014

Graduate Supervisor, Sustainable Energy Policy Program, Fall 2015 and Winter 2018-Present

Admissions Committee, PhD program in Public Policy, 2014 – 2015

Steering Committee, master’s program in Sustainable Energy Policy and Engineering, 2010 – 2016 and 2018-Present

Admissions Committee, master’s program in Sustainable Energy Policy and Engineering, 2010 – 2015 and 2018-Present

Computing Committee, Faculty of Public Affairs, School of Public Policy and Administration (SPPA) representative, 2012-2016 (Chair in 2015-16)

Graduate Faculty Board (SPPA representative), Fall 2015 and Winter 2018-Present

Tenure and Promotions Committee, School of Public Policy and Administration (SPPA), 2011-2013

SIGNALS Faculty Representative, 2015-2016

University-wide

Collaborative Specialization on Climate Change, design, 2019-2020

Selection Committee, Director, Arthur Kroeger College, 2018

Carleton University, Green Revolving Fund Committee, 2015-2016

Committee on Interdisciplinary Programs at Carleton University, one of the faculty representatives, 2013-2014

- **SEMINARS**

Sustainable Energy Engineering and Policy (SERG) (Faculty of Public Affairs and Faculty of Engineering and Design)

Organized (with Graeme Auld, SPPA and Jean Duquette, MAE, and Jessica Leis and Silke Popescu, SERG students) six speakers for Sustainable Energy Speaker Series, 2018-2020

Organized (with Zachary Burgoyne, SERG student), three speakers for Carleton Sustainable Energy Research Centre (CSERC) Speaker Series, Fall 2015

Organized (with Mary Giles SPPA) one speaker for Sustainable Energy Policy and Engineering Program, Carleton University, on electric vehicle adoption and consumer behaviour, May 7, 2014

Organized (with Graeme Auld SPPA) one speaker for the Environmental Economics and Policy series, Carleton and University of Ottawa, May 1, 2013

Organized (with Mary Au and Laura McLaughlin SPPA) one sustainable energy Brown Bag lunch speaker, Dr. Sufang Zhang, Visiting Scholar, on China and wind power, March 30, 2012

Organized (with Mary Au SPPA) two sustainable energy Brown Bag lunch speakers, Tim Weis, Pembina Institute, March 23, 2011 and Alexander Wood, Sustainable Prosperity, May 6, 2011

- **OTHER EVENT ACTIVITIES (organizer, moderator, discussant)**

Discussant, Panel on Northern Resources and Governance, Emerging Perspectives, Graduate Student conference, Faculty of Public Affairs, Carleton University, March 9, 2020

Organized SERG 5000 end of term research projects to outside community (with help from co-instructor and students), Spring 2013, Spring 2014, Spring 2015 and Spring 2018

Moderator, Panel on Energy Transition Management in the Canada and Europe: Managing the Change to a Low Carbon Economy, Clean Energy and Climate Change Policy Workshop in Canada and the European Union (EU), February 9, 2018

Moderator, Panel on Energy and Climate Change, Canada's Past and Present Future in the Americas, Carleton University, March 28, 2017

Moderator, Panel on Climate Change Policy, ISEMA 10th Anniversary event, Carleton University, March 18, 2016

Moderator, Panel on Renewable Energy Experiences in North America, Canada – European Workshop on Renewable Energy and Climate Policies, Carleton University, Ottawa, ON, October 1-2, 2015.

Discussant, Energy Panel, Canadian Political Science Association (CPSA) annual conference, Ottawa, May 2015

Moderator for Panel on Low Carbon Canada in 2035, School of Public Policy and Administration (SPPA), 60th Anniversary, Carleton University, March 14, 2014

Moderator for Panel on Implications of Merger of the Canadian International Development Agency (CIDA) into the Department of Foreign Affairs, Trade and Development (DFATD), Carleton University, October 4, 2013

Moderator, SIGNALS panel on Governance, for Rio +20 conference, April 28, 2012

Organized networking event for the Development stream with Lisa Mills and Emily Kent, March 29, 2012

Discussant, Panel, Association of Public Policy Analysis and Management (APPAM), Washington, DC, USA, November 3, 2011

3. Professional Affiliations and Research Networks

- Latin American Studies Association (LASA), 2018-Present
- Sustainability Transitions Research Network (STRN), 2017-Present
- Arctic Network of Excellence (ArcticNet), 2014-Present
- International Studies Association (ISA), 2013-Present
- Global research network on innovation and development, Globelics, 2013-Present
- Canadian Political Science Association (CPSA), 2011-Present