

Curriculum Vitae

NAME: Alexandra Mallett

DEPARTMENT: School of Public Policy and Administration

TELEPHONE NUMBER IN DEPARTMENT: 2641

Date: November 17, 2021

A EDUCATION

2004 - 2010 PhD (Development Studies)

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

2002 Continuing Education (Cost Benefit Analysis course)

Carleton University, School of Public Policy and Administration (SPPA),
Ottawa, ON, Canada

1997 -1999 Master of Arts (Development Studies)

Dalhousie University, Halifax, NS, Canada

Thesis title: Youth Facing the Challenges of Urban Poverty in Santo Domingo,
Dominican Republic

Supervisor: John Kirk

1992 - 1996 Honours Bachelor of Arts (Specialist in International Relations, Minor in Environmental Studies)

University of Toronto, Toronto, Ontario, Canada

B EMPLOYMENT

1. Academic Appointments

2019 – Present *Associate Professor in Sustainable Energy Policy*, School of Public Policy and Administration (SPPA), Carleton University, Ottawa, Canada

2010-2019 *Assistant Professor in Sustainable Energy Policy*, School of Public Policy and Administration (SPPA), Carleton University, Ottawa, Canada

2008 – 2013 *Visiting and Research Fellow*, Sussex Energy Group, University of Sussex, Brighton, United Kingdom

2007 – 2008 *Research and Teaching Assistant*, Center for Science, Technology and Public Policy (CSTPP), Humphrey Institute for Public Affairs, University of Minnesota, Minneapolis, MN, United States

2. Other Employment
- 2016 - 2017** **MITACS Canadian Science Policy Fellow – Faculty Member**
Clean Technology Task Team, Innovation and Energy Technology Sector (IETS), Natural Resources Canada (full time)
- 2002 – 2004** **Policy Advisor**, Americas Branch, International Relations Directorate Environment Canada (EC), Gatineau, PQ, Canada
- 2000 – 2002** **Policy Analyst**, International Environment Policy Division, Energy Policy Branch, Natural Resources Canada (NRCan), Ottawa, ON, Canada
- 1999 – 2000** **Professional Trainee/Consultant**, Unit of Sustainable Development and Environment (USDE), Organization of American States (OAS), Washington, DC, United States

C PROFESSIONAL HONOURS

- 2016-2017** **MITACS Canadian Science Policy Fellowship (Faculty)**
MITACS, Vancouver, BC, Canada (\$CDN5000 + Interchange)
- 2015-2016 and 2018-2019** **Excellence in Teaching Award**
Student Society, School of Public Policy and Administration (SPPA), Carleton University, Ottawa, ON, Canada
- 2009** **Green Gown Award**
For most exceptional environmental research, United Kingdom for work with India on low carbon technology collaboration
- 2004** **Instant Award**
Policy and Communications, Environment Canada for work on Health and Environment Ministers of the Americas (HEMA) process

D PUBLICATIONS

1. Refereed Scholarly Publications

- a. Articles in refereed Journals (all double-blind peer reviewed)

Mallett, Alexandra, Erica Lima Barros França, Ítalo Alves and Lisa Mills (2021) "[Environmental impacts of mining in Brazil and the environmental licensing process: Changes needed for changing times?](#)" *The Extractive Industries and Society*. *Elsevier*. Vol. 8(3), September 2021, 100952. Impact Factor (IF) = 3.586 (2020)

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*. *Elsevier*. Vol. 126, July 2020, 109830. IF = 14.98 (2020)

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*, *Elsevier*. Vol.7(2), April 2020, pp.704-715. IF = 3.586 (2020)

Mallett, Alexandra and David Cherniak (2018) "Views from above: policy entrepreneurship and climate policy change on electricity in the Canadian Arctic" *Regional Environmental Change*, 18, 1-14. IF = 3.678 (2020)

Mallett, Alexandra, (2018) "Beyond frontier technologies, money and expert knowledge: New parameters for innovation and energy systems change" **Energy Research and Social Science** 39, 122-129. IF = 4.771 (2020)

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, Volume 82m Part 2, pp. 1913-1921. IF = 14.98 (2020)

Mallett, Alexandra, Xavier D. Phillion, 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, Volume 82, Part 2, pp. 1952-1960. IF = 14.98 (2020)

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, Volume 82, Part 2, pp. 1939-1951. IF = 14.98 (2020)

Mallett, Alexandra (2016) "Trade and Industry Policy as Levers for Sustainable Energy Technology Adoption? Experiences from Urban Latin America" **Review of Policy Research**, pages 348-375 IF = 2.000 (2020)
onlinelibrary.wiley.com/doi/10.1111/ropr.12183/pdf

Mallett, Alexandra (2015) "*International Technology Collaboration and Low Carbon Innovation: Recasting 'Truisms' with insights from emerging economies*", **Innovation and Development**, Vol 5, Issue 2, pages 297-311.,
<http://dx.doi.org/10.1080/2157930X.2015.1049851>
IF = 1.57 (2021)

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**, Volume 29, pages 444-458.,[doi:10.1016/j.gloenvcha.2014.03.002](https://doi.org/10.1016/j.gloenvcha.2014.03.002), IF = 10.47 (2019)

Mallett, Alexandra (2013) "*Technology Cooperation for Sustainable Energy– a review of pathways*", **Wiley Interdisciplinary Reviews on Energy and the Environment (WIRES)**, Vol. 2, Issue 2. March / April 2013, pages 234-50, [10.1002/wene.54](https://doi.org/10.1002/wene.54), IF = 3.803 (2020)

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): pages 729-738, [doi: 10.1016/j.gloenvcha.2010.04.009](https://doi.org/10.1016/j.gloenvcha.2010.04.009), IF = 10.47 (2019)

Mallett, Alexandra (2007), "*Social acceptance of renewable energy innovations: The role of technology cooperation in urban Mexico*", **Energy Policy**, 35 (5), pages 2790-2798., [doi: 10.1016/j.enpol.2006.12.008](https://doi.org/10.1016/j.enpol.2006.12.008), IF = 6.142 (2020)

b. Chapters in Edited Books.

Bedard, Pierre-Olivier and **Alexandra Mallett**, (2018) "*La demande pour des données probantes au sein de la fonction publique Canadienne*" Démocratie et politiques publiques (eds) Steve Jacob (Professor, Université Laval) & Jérôme Couture (Postdoctoral fellow – Université Laval) Presses de l'Université Laval.

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.

(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 Chapter 6 – "*Renewable Energy: Investing in Energy and Resource Efficiency*" United Nations Environment Programme (UNEP), February 2011

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

2. Other (Non-Refereed) Scholarly Publications

a. Books

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

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

b. Edited Books

David Ockwell and **Alexandra Mallett** (eds). (2012). *Low carbon technology transfer: from Rhetoric to Reality*. Routledge: Abingdon, UK.

c. 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*”, November 2009

<http://www.sussex.ac.uk/sussexenergygroup/1-2-33-1.html>

d. 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, DOI: **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

3. Creative or Professional Publications

a. Background Papers

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>

b. Op-ed Articles

Mallett, A., J. Meadowcroft, S. Schott and G. 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. OTHER SCHOLARLY OR PROFESSIONAL ACTIVITY

1. Papers / Presentations at Academic Conferences

Jessica Leis, Micah Ton and **Alexandra Mallett** (2020) Evolving governance mechanisms in the Canadian north and energy system change through policy? Arctic Change 2020, online, organized by Laval University, Laval, Quebec, December 7-10, 2020.

Alexandra Mallett, Craig Merrett, and Thomas Arnason MacNeil (2020), Realizing sustainability transitions through the (dis)integration of policy, business, and engineering cycles and time scales for sustainable energy: experiences from eastern Ontario, Canada, European Association for the Study of Science and Technology, online, organized in Prague, August 18-21, 2020.

Jessica Leis and **Alexandra Mallett** (2020), Community Energy in the Canadian North, August 17-22, 2020, International Sustainability Transitions (IST) conference, online, organized in Vienna by the Austrian Institute of Technology.

Alexandra Mallett, (2020), Navigating shifts in the governance of natural resources: the environmental impacts of mining in Brazil – creating new ‘veins’ or channels through policy? Extraction: Governing Extraction – Mining and what is left behind, online, organized in New Zealand, Massey University, June 28-July 12, 2020.

Alexandra Mallett, Erica Franca and Italo Alves, Navigating Mining Governance Changes in Brazil: Feeling the pressure from below? Latin America Studies Association (LASA) conference, May 24-27, 2019, Boston, MA, USA

Sasha Hanson Pastran and **Alexandra Mallett** Unearthing Power: A decolonial analysis of the Samarco mine disaster and the Brazilian mining industry Latin America Studies Association (LASA) conference, May 24-27, 2019, Boston, MA, USA

Nathalin Moy, 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 3-6, 2018

Mallett, Alexandra, Craig Merrett, and Nathalin Moy “Under Whose Authority? Examining Renewable Energy Project Processes in Eastern Ontario”, Ontario Network for Sustainable Energy Policy (ONSEP), Picton, ON, April 23-25, 2018

Mallett, Alexandra, Reconceptualizing Energy Innovation, Energy Poverty for Energy Innovation conference, Arizona State University, Tempe, AZ, USA, February 12-14, 2018

Mallett, Alexandra “Adjusting the innovation systems ‘lens’ through experiences with energy system change” SPRU 50th Anniversary, Sussex, UK, September 7-9, 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, Ryan Reiber, Danny Rosenbloom, Xavier Deschenes-Philion, “When Push Comes to Shove: Public Policies, Social Acceptance and Canadian Smart Grids Experiences through the Media” Presentation for Canadian Political Science Association conference, St. Catharines, ON, May 29, 2014 (Presented by Xavier Deschenes-Philion)

Mallett, Alexandra, Ryan Reiber, Danny Rosenbloom, Xavier Deschenes-Philion, “When Push Comes to Shove: Public Policies, Social Acceptance and Canadian

Smart Grids Experiences through the Media” Presentation for Smart Grids Workshop, Wakefield, Quebec, May 8, 2014

Mallett, Alexandra, Precedents and sustainable energy technology cooperation: unraveling social acceptance through urban Latin American experiences with renewable energy sources”. Canadian Association for Latin American and Caribbean Studies (CALACS), Ottawa, Canada, May 3-5, 2013.

Mallett, Alexandra, Ryan Reiber and Danny Rosenbloom, “Visions of smart grids in Canada: capturing the 'pulse' of the nation through the media” Presentation for Smart Grids Workshop, Wakefield, Quebec, May 2-3rd, 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”, presented at Technology For Development Conference, Lausanne, Switzerland, May 29-31, 2012.

Mallett, Alexandra, “Re-examining increasing clean energy access in developing countries: a view from urban Latin America”, presented at APPAM, Washington, D.C., USA, November 3-5, 2011.

2. Research Grants and Contracts

Future Energy Shift (2019), New Frontiers in Research Fund, (CDN \$250 000) (role = co applicant), with PIs Zachary Colbert and Jean Duquette

Governing Energy System Change in the Canadian Arctic: Alternative Sources of Innovation in Communities? (2019) Social Sciences and Humanities Research Council (SSHRC) Insight Development Grant, (\$65 000) Role = PI, with Stephanie Irlbacher-Fox as a collaborator

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

State of Alternative Energy in the Arctic (2014-2015)
Aboriginal Affairs and Northern Development Canada (AANDC), (CDN \$90 000),
Principal Investigators (PIs) Alex Mallett and Stephan Schott

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 with Lisa Mills, Hevina Dashwood and Robert Slater

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) With Graeme Auld 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)

4. Other Professional Activities

a. External referee for scholarly journals, policy papers and research reports

International Environmental Agreements: Politics, Law and Economics (2017), Review of Policy Research (2017, 2018, 2019), World Development Perspectives (2019), Climate and Development (2019, 2021), Cities (2009), Nature Climate Change (2013), Energy Policy (2010, 2011, 2012, 2013, 2017) and Climate Policy (2011), Energy Research and Social Science (2014, 2018, 2019, 2020, 2021) , Environmental Innovations and Sustainability Transitions (EIST) (2021), Environmental Communications (2018, 2021), Environmental Economics and Policy Studies (2011), Wiley Interdisciplinary Reviews (WIREs) Climate Change (2021), Research Report on Clean Technology, Natural Resources Canada (2017) and Policy Paper examining carbon revenue mechanisms for Sustainable Prosperity Institute (2011), Energy Transitions for Smart Prosperity Institute (2020), International Environmental Agreements (2015) and book chapters: Enabling Environments for a Sustainable Energy Transformation: the Diffusion of Know-How, Technologies and Innovations in Low-carbon Societies” Hexagon Series on Human, Environmental Security and Peace (2015)

b. Reviewer for Programs or Fellowship Placements

Reviewer, external (outside of New Frontiers of Research Exploration review committee), November 2019

Reviewer, evaluation of program for Canadian Space Agency, April 2019

Reviewer, external (outside of SSHRC committee), SSHRC Insight Grant, January 2019

Reviewer, MITACS, Canadian Science Policy Fellowship (CSPF), applicants for program – March 2018 and March 2019

Reviewer, NORFACE-Belmont Forum, Netherlands, December 2017

Reviewer, MITACS Elevate program, Vancouver, BC, October 2017

Reviewer, International Foundation for Science (IFS), Stockholm, Sweden (agency that supports researchers from developing countries), May 2016

Reviewer for European Cooperation in Science and Technology (COST) project proposal, Switzerland, June 2015 and August 2012.

Expert Reviewer, Intergovernmental Panel on Climate Change (IPCC), 5th Assessment Report (AR5), First Order Draft (FOD), Mitigation, September 2012.

c. Referee for Conference Papers

Reviewer, Papers Submitted to GLOBELICS conferences, 2014 (Addis Ababa, Ethiopia), 2015 (Havana, Cuba), 2016 (Bandung, Indonesia), 2017 (Athens, Greece) and 2018 (Accra, Ghana)

d. Academic Association Positions

Executive Board Member, Ontario Network for Sustainable Energy Policy (ONSEP), September 2015 – Present

d. Organizing Committee Member for Academic Conferences

International Sustainability Transitions (IST) conference, 2019

ONSEP 2016- 2018

5. Scholarly Works in Progress

Pedro Bigolin and **Alexandra Mallett**, Public Participation in Environmental Impact Assessment processes through various channels – can you listen to us now? Lessons from Brazilian mining case, under review, Special Issue on politics and ecologies, Extractive Industries and Society.

F ACADEMIC RESPONSIBILITIES (TEACHING)

Courses Taught

Undergraduate level:

PAPM 2000: the Policy Cycle 2015-2016
Supervisor for TAs
2016 – Leslie Munoz and Grant Fortier (master's level)
2015 - Daniel Rosenbloom (PhD student); Erwin Casareno and Scott Hayhow (master's level)

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)

SERG5001: Sustainable Energy Policy for Engineers 2010-2015 and
2018, 2019, 2021

SERG 5004: Interdisciplinary Applied Project 2020

PADM 5611: Science, Technology and Innovation Policy 2012- 2015,2018,
2020, 2021

PADM5116: Policy Analysis and Contemporary Governance 2010-2016

PADM5121: Policy Analysis: the Practical Art of Change 2018, 2019, 2020

Innovation in teaching methods: One unique attribute of the SERG two graduate-level courses is that they are part of the curriculum of the new masters of sustainable energy policy and engineering, run jointly with the department of engineering at Carleton. I am therefore teaching both policy and engineering students separately, and together. Another innovation I undertook in 2018 and repeated in 2020 (just before the pandemic) was a Policy Hackathon which was developed with two alumni and a colleague of theirs for PADM5121.

Graduate Supervisions:**Post-doctoral:**

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

PhD:

Julien Wu, 2021-Present (co supervisor with Andre Laliberte, University of Ottawa), SPPA, Carleton, on Chinese government influence in Canada

Interim Supervisor

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

Eurico Ngunga, 2014-2015, Universidade 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

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

M.A.:

Thesis

Silke Popescu, 2020-21, (with co supervisor Lisa Mills), Leading Canada's Sustainable Energy Transition: Does Gender Matter?, SPPA, Carleton (nominated for a Senate medal)

Nathalin Moy, 2018-2020 (with co supervisor Craig Merrett), An Engineer's Guide to Public Engagement in [Renewable] Energy Projects, SPPA, Carleton (nominated for a Senate medal)

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), On Canadian firm involvement in the mining sector in Mexico, Institute of Political Economy, Carleton

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

Major Research Project (master's level)

Jessica Leis, 2019-2020, On community energy and northern Canada, SPPA, Carleton

Balie Walker, 2019-2020 (co-supervisor with Lisa Mills), Abandoned Mines in Ontario and Reducing Environmental Impacts—What's the Role of Legislation? Second reader: Graeme Auld, SPPA, Carleton

Leo Khoushinsky, 2019-2020, Carrying the Burden of Electronic Waste – Getting Rid of Siloed Thinking and Single Stakeholder Responsibility, Second reader: Graeme Auld, SPPA, Carleton

Oana Spinu, 2017-2018, Second reader: James Meadowcroft, Cooperatives and Renewable Energy - potential lessons learned from Alaska for Nunavut, SPPA,

Carleton

Sasha Hanson Pastran, 2016, second reader Lisa Mills. Unearthing Power: a decolonial analysis of Brazil's mining sector, SPPA, Carleton

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

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

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

Julien Wu, 2013-2014, second reader Teddy Samy, On Canada's Trade with China SPPA, Carleton

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

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

Directed Study

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

Undergraduate Supervisions:

Honours students:

Keean Nembhard, 2019-2020 (co supervised with Graeme Auld) on climate change adaptation effects in the Caribbean,

Lauren Peng, 2017-2018

On grassroots innovation for sustainable energy in India and China, Arthur Kroeger College of Public Affairs, Carleton

Vasundhara Saravade, 2015-2016

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, On mining and public policies, Arthur Kroeger College of Public Affairs, Carleton

Harris Burton, 2012-2013, "Complexity Theory to Evaluate Feed in Tariffs", Arthur Kroeger College of Public Affairs, Carleton

Caitlin Blacklaws, 2011-2012, "Mining and Regulation – Voluntary versus Mandatory options", Arthur Kroeger College of Public Affairs, Carleton

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

Committee Member:

PhD:

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

Mohammad Zeiab, 2013-2017, (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

M.A.:

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

External and Internal Examinations

PhD

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

Magda Goemans 2019, "Bringing adaptation home: Citizen engagements with climate change at home site scales in Ottawa and Halifax", Geography, Carleton

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

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

Masters

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

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.

Melissa Matis, 2017, "An examination of wake effects for offshore wind power in Lake Ontario" (policy chapter), Department of Mechanical and Aerospace Engineering, Carleton

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

Second Reader

Masters (Major Research Paper)

Ben Derochie, 2018, (supervisors Stephan Schott and Jean Duquette), on distributed energy resources (DER) integration in the Canadian Arctic

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

Undergraduate (Honour Research Essay)

Sierra Matis, 2018, (supervisor Susan Phillips), on innovation labs and policy innovation in the Canadian public service

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

G. Administrative Responsibilities

1. Committees

SPPA

Member, Hiring Committee, Indigenous Policy and Administration (IPA), SPPA, 2018-2019

Chair for Committee on Curriculum – Course on Energy Tools, master's program in Sustainable Energy Policy and Engineering, 2014 and Chair for committee about SERG 5004 course development, 2018-2019

Graduate Supervisor, Master of Arts in Sustainable Energy Policy Program, July – December 2015 and January 2018 – December 2020 and July 2021-Present

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

Steering Committee, master's program in Sustainable Energy Policy and Engineering, 2010 – 2016 and 2018-2020 and 2021-Present

Admissions Committee, master's program in Sustainable Energy Policy and Engineering, 2010 – 2015 and 2018-2020 and 2021-Present

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

Graduate Faculty Board (SPPA representative), Fall 2015 and January 2018-December 2020 and July 2021-Present

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

SIGNALS Faculty Representative, 2015-2016

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

University-wide

FPA Representative on Collaborative Specialization on Climate Change (CSCC) Committee, 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

2. Seminars

Organizing (with Jean Duquette, MAE and Graeme Auld, SPPA and Ryan Goldie, Jessica Leis and Silke Popescu, SERG students) various speakers for Sustainable Energy Speaker Series, 2018-2020 and 2021-Present

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

Organized (with Mary Giles) one speaker for Sustainable Energy Policy and Engineering Program, Carleton University, May 7, 2014

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

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

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

3. Other

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

Faculty representative for January 2020 Field Trip to Evolugen, Gatineau, QC (organized by Heather Moulton and Charlene Kennett) and other field trips including Chalk River, Fall 2015, Beauharnois, Fall 2014, and Wolf Island, Kingston, Fall 2011

Helped organize field trips for SERG program (with students and other staff and faculty) including Chalk River, Fall 2015, and Wolfe Island, Kingston, Fall 2011 and 2013

Presentation about Canadian Science Policy Fellowship experience, SPPA Research Talks, March 2, 2018

Organizing Committee and Moderator for 10th Anniversary event for ISEMA, April 2015-March 2016 (event on March 18, 2016)

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

Attended SPECTRUM conference on food security in Canada, March 25, 2012

H OTHER

1. Presentations at Policy / Teaching Conferences

“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

“*Sustainable Energy Innovation and Technology Cooperation*” Presentation for United Nations Educational, Scientific and Cultural Organization (UNESCO) Chair

in Materials and Technologies for Energy Conversion Saving and Storage (MATECSS), Montreal, Quebec, April 10, 2014.

“Low Carbon Technology Cooperation: Ways Forward on a Technology Facilitation Mechanism”, Presentation and Panelist 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.

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

“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

2. Participation in various academic / policy venues

Discussant, Emerging Perspectives conference on Northern resources and governance session, March 9, 2020

Facilitator, Breakout group on environmental issues, Breaking New Trail – Northern Policy Framework, Faculty of Public Affairs, Carleton, April 4, 2019

Moderator for Panel on Energy and Climate Change in Canada, Canadian and European Union Climate Change and Energy Policy Workshop, February 9, 2018

Presentation on Energy Governance Challenges in Canada, Natural Resources Canada, Energy Resources Branch, June 2017

Presented / led four seminars examining Innovation in the Natural Resource Sectors, Natural Resources Canada, February – April 2017

Participant, Ontario Network for Sustainable Energy Policy (ONSEP), annual workshop, Prince Edward County, April 2016 and 2017

Presenter, Webinar, “*State of Alternative Energy in the Arctic – Policy Recommendations*”, ONSEP and CSERC, webinar, January 21, 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.

Participant, Round table on Science, Technology and Innovation and Public Policy, hosted by Institute for Research in Public Policy (IRPP), Rideau Club, Ottawa, ON, June 2015.

Discussant, Panel on Energy Policy, Canadian Policy Science Association (CPSA), Ottawa, ON, May 2015.

Participant, Energy Charrette, Government of Northwest Territories, Yellowknife, NWT, November 3-4, 2014

<http://news.exec.gov.nt.ca/bob-mcleod-opening-remarks-at-energy-charrette-2014/>
http://www.iti.gov.nt.ca/sites/default/files/charrette_report_fnl_web.pdf

Participant, Outreach Session, National Round Table on the Environment and the Economy (NRT), Climate Prosperity report

http://publications.gc.ca/collections/collection_2011/trnee-nrtee/En133-40-3-1-2011-eng.pdf

3. Presentations and written input to wider community

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

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

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

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

“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

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