

Last Updated November 7, 2017

CURRICULUM VITAE

NAME: Ross R. McKittrick

RANK: Professor

STATUS: Tenured

Member of Graduate Faculty: Yes

DEGREES:	B.A.(Hons)	Economics,	Queen's University	1988
	M.A.	Economics	University of British Columbia	1990
	Ph.D.	Economics	University of British Columbia	1996

EMPLOYMENT HISTORY:

1988-1989	Research Assistant, Industrial Relations Centre, Queen's University
1989-1994	Teaching Assistant, University of British Columbia
1989-1996	Research Assistant, University of British Columbia
1996-2001	Assistant Professor, Economics, University of Guelph
2001-2009	Associate Professor, Economics, University of Guelph
2009-	Professor

EXTERNAL AFFILIATIONS:

Current: Senior Fellow, Fraser Institute, Vancouver BC
Adjunct Scholar, Cato Institute, Washington DC

Past: Chair, Academic Advisory Council, Global Warming Policy Foundation, London UK
Research Chair, Frontier Centre for Public Policy, Winnipeg Manitoba

AWARDS AND HONOURS:

2003 Canadian Science Writers Association of Canada Book Award (Finalist), for *Taken By Storm: The Troubled Science Policy and Politics of Global Warming* coauthored with Christopher Essex

2003 \$10,000 Donner Prize for Best Book on Canadian Public Policy, for *Taken By Storm: The Troubled Science Policy and Politics of Global Warming* coauthored with Christopher Essex.

MAJOR SCHOLARLY AND PROFESSIONAL ACTIVITIES

Referee (Journals): *American Economic Review*, *Econometrica*, *Energy Journal*, *Energy Studies Review*, *Environment and Energy*, *Environment and Development Economics*, *Canadian Journal of Economics*, *Canadian Public Policy*, *Canadian Journal of Agricultural Economics*, *International Journal of Climatology*, *Journal of Environmental Economics and Management*, *Journal of Economics and Management Strategy*, *Journal of Environmental Management*, *Journal of Comparative Economics*, *Journal of Regulatory Economics*, *Physical Geography*, *Public Choice*, *Water Resources Journal*.

Selected Media Interviews and Coverage

Television: BBC, Fox, ITV, CBC, CTV, Global, Sun TV

Radio: CBC, Corus, CKNW, CHQR, CIFM, CFOR, CHED, AM740

Print: *Economist*, *Wall Street Journal*, *New York Times*, *Globe and Mail*, *National Post*, *Time*, *Ottawa Citizen*, *Calgary Herald*, *Kitchener-Waterloo Herald*, *London Free Press*, *Toronto Sun*, *Guelph Mercury*, *Guelph Tribune*, *Report Magazine*, *Die Stern*, *Der Spiegel*, *Sydney Morning Herald*, *MIT Technology Review*.

Print Op-eds: *National Post*, *Newsweek*, *Christian Science Monitor*, *Irish Times*.

GRADUATE COURSES TAUGHT

ECON*6800 Environmental Economics

ECON*6900 Directed Readings in Law and Economics

UNDERGRADUATE COURSES TAUGHT

ECON*4930 Environmental Economics

ECON*4900 Directed Readings in Environmental Economics

ECON*3740 Introduction to Econometrics

ECON*2100 Economic Growth and Environmental Quality

ECON*1200 Introductory Microeconomics

PUBLICATIONS

Papers in Refereed Journals

1. McKitrick, Ross (1997). "Double-Dividend Environmental Taxation and Canadian Carbon Emissions Control" *Canadian Public Policy* December 1997, pp. 417-434.
2. McKitrick, Ross R. (1998) "The Econometric Critique of Applied General Equilibrium Modelling: The Role of Functional Forms." *Economic Modelling* 15 pp. 543-573.
3. Helliwell, John F. and Ross R. McKitrick, (1999) "Comparing Capital Mobility across National and Provincial Borders," *Canadian Journal of Economics* 32(5) pp. 1164-1173.
4. McKitrick, Ross R. (1999) "A Cournot Mechanism for Pollution Control under Asymmetric Information." *Environmental and Resource Economics*, October 1999, pp. 353-363.
5. McKitrick, Ross R. (1999) "A Derivation of the Marginal Abatement Cost Function." *Journal of Environmental Economics and Management*, May 1999, pp. 306-314.
6. McKitrick, Ross R. and Robert Collinge (2000) "Linear Pigovian Taxes and the Optimal Size of a Polluting Industry" *Canadian Journal of Economics* 33(4) pp. 1106-1119.
7. McKitrick, Ross R. (2000) "The Design of Regulations Expressed as Ratios or Percentage Quotas" *Journal of Regulatory Economics* 19(3), pp. 295-305.
8. McKitrick, Ross R. and Robert C. Collinge (2001), "The Existence and Uniqueness of Optimal Pollution Policy in the Presence of Victim Defence Measures." *Journal of Environmental Economics and Management* 44, pp. 106-122.
9. McKitrick, Ross R. (2001) "Mitigation versus Compensation in Global Warming Policy." *Economics Bulletin*, Vol 17 no. 2 pp. 1-6, 2001.
10. Weersink, Alfons, Michael Nailor and Ross R. McKitrick (2001). "The Economics of Voluntary Shared Cost Programs" *Current Agriculture, Food and Resource Issues*, No. 2/2001 pp.23-36.
11. McKitrick, Ross R. (2002) "Inference About Trends in Temperature Data After Controlling for Serial Correlation and Heteroskedastic Variance." *Proceedings of the Russian Geographical Society*, Vol. 164(3), pp. 16-24, 2002.
12. McKitrick, Ross R. and Timothy Shufelt (2002), "Environmental Impacts of Enhanced Property Rights." *Environment and Energy* 13(3) pp. 367-382.
13. McKitrick, Ross R. and Patrick J. Michaels, (April 2004) "A Test of Corrections for Extraneous Signals in Gridded Surface Temperature Data." *Climate Research* 26(2) 159-173, April 2004.

14. McKittrick, Ross R. and Stephen McIntyre (2003) "Corrections to the Mann et. al. (1998) Proxy Data Base and Northern Hemisphere Average Temperature Series." *Environment and Energy* 14(6) pp. 751-771, October 2003.
15. McKittrick, Ross R. and Patrick J. Michaels (2004) "Are Temperature Trends Affected by Economic Activity? Reply to Benestad (2004)" *Climate Research* 27(2) pp. 175-176.
16. McKittrick, Ross R. (2005) "Decentralizing a Regulatory Standard Expressed in Ratio or Intensity Form." *Energy Journal* 26(4) 1-9.
17. McKittrick, Ross R. and Christopher Essex (2005) "Reply to Professor Nicholls." *Australian Journal of Agricultural and Resource Economics*, 49, pp. 364-367.
18. McKittrick, Ross R. and Stephen McIntyre (2005) "Hockey Sticks, Principal Components and Spurious Significance." *Geophysical Research Letters* Vol.32, No. 3, L03710, 10.1029/2004GL021750 12 February 2005.
19. McKittrick, Ross R. and Stephen McIntyre (2005) "Reply to Comment by von Storch and Zorita on "Hockey Sticks, Principal Components and Spurious Significance" *Geophysical Research Letters* 32(20) L20714 10.1029/2005GL023089 21 October 2005
20. McKittrick, Ross R. and Stephen McIntyre (2005) "Reply to Comment by Huybers on "Hockey Sticks, Principal Components and Spurious Significance" *Geophysical Research Letters* 32(20)L20714 10.1029/2005GL023586 21 October 2005
21. McKittrick, Ross R. and Stephen McIntyre (2005) "The M & M Critique of the MBH98 Northern Hemisphere Climate Index: Update and Implications." *Energy and Environment* 16(1) pp. 69-100.
22. McKittrick, Ross R. (2005) "Science and Environmental Policymaking: Bias-Proofing the Assessment Process." *Canadian Journal of Agricultural Economics* (53) 275-290.
23. McKittrick, Ross R. (2006) "The Politics of Pollution: Party Regimes and Air Quality in Canada" *Canadian Journal of Economics* 39(2), May 2006, 604-620.
24. McKittrick, Ross R. (2006) "Why Did US Air Pollution Emissions Decline After 1970?" *Empirical Economics* DOI:10.1007/s00181-006-0111-4.
25. Byatt, Ian, Ian Castles, Indur M. Goklany, David Henderson, Nigel Lawson, Ross McKittrick, Julian Morris, Alan Peacock, Colin Robinson and Robert Skidelsky (2007) "The Stern Review: A Dual Critique. Part II: Economic Aspects." *World Economy* 7(4) pp. 199-232.
26. Essex, Christopher, Bjarne Andresen and Ross McKittrick (2007) "Does a Global Temperature Exist?" *Journal of Nonequilibrium Thermodynamics*, Vol 32 No. 1.
27. McKittrick, Ross R. and P.J. Michaels (2007) "Quantifying the influence of anthropogenic surface processes and inhomogeneities on gridded global climate data." *Journal of Geophysical Research*, 112, D24S09, doi:10.1029/2007JD008465, 2007.

28. McKitrick, Ross R. (2008) “Calling the Carbon Bluff” *Environment and Energy* 19(5) 707—711.
29. McIntyre, Stephen and Ross R. McKitrick (2009) “Proxy inconsistency and other problems in millennial paleoclimate reconstructions.” *Proceedings of the National Academy of Sciences* February 2, 2009. 106:E10; doi:10.1073/pnas.0812509106
30. Koop, Gary M., Ross R. McKitrick and Lise A. Tole (2010) “Air Pollution, Economic Activity and Respiratory Illness: Evidence from Canadian Cities, 1974-1994” *Environmental Modeling and Software* , DOI:10.1016/j.envsoft.2010.01.010.
31. McKitrick, Ross R. (2010) “Atmospheric Oscillations do not Explain the Temperature-Industrialization Correlation.” *Statistics, Politics and Policy*, July 2010.
32. McKitrick, Ross R. and Nicolas Nierenberg (2010) “Socioeconomic Signals in Climate Data.” *Journal of Economic and Social Measurement*, 35(3,4) pp. 149-175. DOI 10.3233/JEM-2010-0336.
33. McKitrick, Ross R., Stephen McIntyre and Chad Herman (2010) “Panel and Multivariate Methods for Trend Comparisons in Climate Data Series” *Atmospheric Science Letters* Volume 11, Issue 4, pages 270–277, October/December 2010 DOI: 10.1002/asl.290.
34. McKitrick, Ross R. (2010) “A Simple State-Contingent Pricing Rule for Complex Intertemporal Externalities” *Energy Economics* doi:10.1016/j.eneco.2010.06.013.
35. McIntyre, Stephen and Ross McKitrick (2011) “Discussion of: A Statistical Analysis of Multiple Temperature Proxies: Are Reconstructions of Surface Temperatures Over the Last 1000 Years Reliable?” *Annals of Applied Statistics* Vol. 5, No. 1, 56–6 DOI: 10.1214/10-AOAS398L.
36. McKitrick, Ross R. and Lise Tole (2012) “Evaluating Explanatory Models of the Spatial Pattern of Surface Climate Trends using Model Selection and Bayesian Averaging Methods” *Climate Dynamics*, 2012, DOI: 10.1007/s00382-012-1418-9
37. Hu Bin and Ross R. McKitrick (2012) “Discount Rate Distortions and the Resource Curse” *South African Journal of Economics* Volume 81, Issue 1, DOI: 10.1111/j.1813-6982.2012.01322.x.
38. McKitrick, Ross R., Mark Strazicich and Junsoo Lee (2012) “Long-Term Forecasting of Global Carbon Dioxide Emissions: Reducing Uncertainties Using a Per-Capita Approach.” *Journal of Forecasting*, Vol 32, Issue 5, pp 435-451 DOI: 10.1002/for.2248.
39. Wood, Joel and Ross R. McKitrick (2013) “Co-fluctuation patterns of per capita carbon dioxide emissions: The role of energy markets” *Energy Economics* 10.1016/j.eneco.2013.03.015
40. McKitrick, Ross R. (2013) “Encompassing Tests of Socioeconomic Signals in Surface Climate Data.” *Climatic Change* doi 10.1007/s10584-013-0793-5.
41. Huldén, Lena, Ross R. McKitrick and Larry Huldén (2013) “Average Household Size and the Eradication of Malaria” *Journal of the Royal Statistical Society* Series A DOI: 10.1111/rssa.12036.

42. McKittrick, Ross R. and Timothy Vogelsang (2014) “HAC-Robust Trend Comparisons Among Climate Series with Possible Level Shifts” *Environmetrics* DOI: 10.1002/env.2294.
43. McKittrick, R. (2014) “HAC-Robust Measurement of the Duration of a Trendless Subsample in a Global Climate Time Series.” *Open Journal of Statistics*, 4, 527-535. doi: 10.4236/ojs.2014.47050.
44. Hu, Bin and Ross R. McKittrick (2015) “Decomposing the Environmental Effects of Trade Liberalization: The Case of Consumption-Generated Pollution” *Environmental and Resource Economics* January 2015 DOI 10.1007/s10640-014-9865-x
45. Bin, H. & McKittrick, R. (2016). “Climatic Variations and the Market Value of Insurance Firms.” *Journal of Insurance Issues*, 39 (1), 92-111.
46. McKittrick, Ross R. (2016) “Global Energy Subsidies: An Analytical Taxonomy.” *Energy Policy* <http://dx.doi.org/10.1016/j.enpol.2016.10.035>
47. Dayaratna, Kevin, Ross McKittrick and David Kreutzer (2016) “Empirically-Constrained Climate Sensitivity and the Social Cost of Carbon.” *Climate Change Economics* April 2017 DOI: <http://dx.doi.org/10.1142/S2010007817500063>
48. McKittrick, Ross R. and Jamie Lee (2017) “Forming a Majority Coalition for Carbon Taxes Under a State-Contingent Updating Rule” *Strategic Behavior and the Environment*, forthcoming

Technical and Contract Reports (*Peer-reviewed)

49. McKittrick, Ross R. (2002) National Round Table on the Environment and the Economy, Sustainability Indicators Project. Invited commentary paper on net savings-based indicator. March 28, 2002.
50. McKittrick, Ross R. (2002) National Round Table on the Environment and the Economy, Sustainability Indicators Project. Review Paper on Proposed method, prepared for economists’ workshop Feb 20 2002.
51. *McKittrick, Ross R. and Randall M. Wigle (2002) “The Kyoto Protocol: Canada’s Risky Rush to Judgment.” C.D. Howe Institute Commentary, October 2002.
52. McKittrick, Ross R. (2002) “Measuring Environmental Productivity in Theory and Practice”, Statistics Canada Productivity Measurement Conference, Ottawa, November 2002.
53. *McKittrick, Ross R. and Stephen McIntyre (2004) “Materials Complaint” Technical submission to *Nature* which, after refereeing, triggered the *Corrigendum* of Mann et al., *Nature* (430) p. 105, July 2004.
54. McKittrick, Ross R. (2004) “Power Plants, Air Quality and Health: The Case for re-examining Ontario’s Coal Policy.” Technical Report to the Power Workers Union, June 2004, mimeo.

55. McKittrick, Ross R. (2005) Submission to the House of Lords Select Committee on Climate Change, UK, 2005.
56. *McKittrick, Ross R., Kenneth Green and Joel Schwartz (2005) "Pain Without Gain: Shutting Down Coal-Fired Power Plants Would Hurt Ontario" Fraser Institute, January 2005.
57. McKittrick, Ross R. and Stephen McIntyre (2006) "Presentation to the National Academy of Sciences Expert Panel, 'Surface Temperature Reconstructions for the Past 2,000 Years,'" March 2006.
58. McKittrick, Ross R. and Stephen McIntyre (2006) Congressional Testimony, House Committee on Energy and Commerce, Washington DC July 27th, 2006.
59. McKittrick, Ross R. (2006) Submission to the UK Stern Commission on the Economics of Climate Change, UK, 2006.
60. McKittrick, Ross R. (2007) Invited Review of the NRTEE 'Interim Report to the Minister of the Environment' and 'Clean Air Act Technical Briefings', 2007.
61. *McKittrick, Ross R. with Joseph D'Aleo, Madhav Khandekar, William Kininmonth, Christopher Essex, Wibjörn Karlén, Olavi Kärner, Ian Clark, Tad Murty and James J. O'Brien (2007) "The Independent Summary for Policymakers of the IPCC Fourth Assessment Report." Vancouver: Fraser Institute, 2007.
62. McKittrick, Ross R. (2008) "The Environmental Crisis: The Devil is in the Generalities." Invited article, *Academic Matters* April 2008.
63. *McKittrick, Ross R. and Bruce D. McCullough (2009) "Check the Numbers: The Case for Due Diligence in Policy Formation." Fraser Institute, February 2009.
64. McKittrick, Ross R. (2010) Evidence submitted to the Independent Climate Change Emails Review, University of East Anglia, UK, March 2010.
65. McKittrick, Ross R. (2010) Submission of evidence to the UK House of Commons Science and Technology Committee Inquiry into the Disclosure of Data from the Climatic Research Unit, University of East Anglia, UK, March 2010.
66. *McKittrick, Ross R. (2011) "What Is Wrong With The IPCC? Proposals for Radical Reform." London: Global Warming Policy Foundation, November 2011.
67. *McKittrick, Ross R. (2012) "The High Price of Low Emissions: Benefits and Costs of GHG Abatement in the Transportation Sector." Ottawa: MacDonald-Laurier Institute, March 2012.
68. *McKittrick, Ross R. (2013) "Environmental and Economic Consequences of Ontario's Green Energy Act." Vancouver: The Fraser Institute, April 2013.
69. *McKittrick, Ross R. (2013) "An Evidence-Based Approach to Pricing CO2 Emissions." London: Global Warming Policy Foundation, July 2013.

70. *McKitrick, Ross R. (2014) "Climate Policy Implications of the Hiatus in Global Warming" Vancouver: Fraser Institute, October 2, 2014.
71. *McKitrick, Ross R. and Tom Adams (2014) "What Goes Up: Ontario's Soaring Electricity Prices and How to Bring them Down" Vancouver: Fraser Institute, October 30 2014.
72. *Adams, Tom and Ross McKitrick (2016) "Demand-Side Mismanagement: How Conservation Became Waste." Vancouver: Fraser Institute, April 2016
73. *McKitrick, Ross (2015) *The Principle of Targeting in Energy and Environmental Policy*. Vancouver: Fraser Institute, May 2015
74. *McKitrick, Ross R. (2016) "A Practical Guide to the Economics of Carbon Pricing." University of Calgary School of Public Policy Research Papers Vol 9 Issue 28, September 2016
75. *McKitrick, Ross R. and Elmira Aliakbari (2017) "Did the Coal-Phase-out Reduce Ontario Air Pollution?" Vancouver, Fraser Institute. January 2017
76. *McKitrick, Ross R. and Elmira Aliakbari (2017) "Canada's Air Quality Since 1970: An Environmental Success Story." Vancouver, Fraser Institute. April 2017
77. *McKitrick, Ross R. and Elmira Aliakbari (2017) "Canada's Air Quality Since 1970: An Environmental Success Story." Vancouver, Fraser Institute. April 2017
78. *McKitrick, Ross R. and Elmira Aliakbari (2017) "Rising Electricity Costs and Declining Employment in Ontario's Manufacturing Sector." Vancouver, Fraser Institute. October 2017

Books Authored

79. McKitrick, Ross R. with Christopher Essex (2002) *Taken by Storm: The Troubled Science, Policy and Politics of Global Warming* Key Porter Books, fall 2002. Second edition: Fall 2007.
80. McKitrick, Ross R. (2010) *Economic Analysis of Environmental Policy* Toronto: University of Toronto Press, 257 pp.

Books Edited

81. McKitrick, Ross R, ed.. (2009) *Critical Topics in Global Warming*. Vancouver: The Fraser Institute, April 2009.

Chapters in Books

82. McKitrick, Ross R. (2004) "Budget '03 and the Kyoto Process." In *The 2003 Federal Budget: Conflicting Tensions* (C. Beach ed.), John Deutsch Institute, Kingston Ont., Spring 2004.

83. McKittrick, Ross R. (2005) and Carl Mitcham, “Economics:Overview” in *The Macmillan Encyclopedia of Science, Technology and Ethics*, Thompson Gale, July 2005.
84. McKittrick, Ross R. (2007) “Bringing Balance, Disclosure and Due Diligence into Science-Based Policymaking.” In Porter, Jene ed., *Public Science in Liberal Democracy: The Challenge to Science and Democracy*, University of Toronto Press, 2007.
85. McKittrick, Ross R. (2006) “The Mann et al. Northern Hemisphere “Hockey Stick” Climate Index: A Tale of Due Diligence.” in Michaels, Patrick, ed. *Shattered Consensus: The True State of Global Warming*. Rowman and Littlefield, 2006.
86. McKittrick, Ross R. (2008) “The T3 Tax as a Policy Strategy for Global Warming” in Nakamura, A. ed. *The Vancouver Volumes*, Trafford Press, forthcoming.
87. McKittrick, Ross R. (2008) “Response to David Henderson’s ‘Governments and Climate Change Issues: the Flawed Consensus’” in Todd, Walker and Kerry Lynch, eds. *American Institute of Economic Research Economic Education Bulletin*, vol. 48 no. 5 (May 2008) Special Issue “The Global Warming Debate: Science, Economics and Policy.” pp. 83—104.
88. McKittrick, Ross R. (2008) “Air Pollution Policy in Canada: Improving on Success” in Schneider, N. ed., *A Breath of Fresh Air: Market-Based Solutions for Environmental Challenges*, Vancouver: Fraser Institute, September 2008.
89. McKittrick, Ross R. and Olavi Kärner (2009) “Long Term Persistence and Nonstationarity in Geophysical Data.” In McKittrick, Ross R. (ed.) *Critical Topics in Global Warming*, Vancouver: Fraser Institute (April 2009).
90. D’Aleo, Joseph, Madhav Khandekar and Ross R. McKittrick (2009) “Problems with the Global Surface Thermometer Network.” In McKittrick, Ross R. (ed.) *Critical Topics in Global Warming*, Vancouver: Fraser Institute (April 2009).
91. McKittrick, Ross R. (2010) “Rational Global Climate Policy in an Uncertain World” (in German) in Hentrich, Steffen and Krahrmer, Holger, eds., *Realitätscheck für den Klimaschutz: Globale Klimapolitik zwischen Anspruch und Wirklichkeit*, ELF: Berlin.
92. McKittrick, Ross R. (2012) “Choosing Priorities To Balance Economic Growth And Environmental Protection.” In *Beijing Forum 2011: The Harmony of Civilizations and Prosperity for All — Tradition and Modernity, Transition and Transformation*, Beijing.
93. McKittrick, Ross R. (2013) "State-Contingent Pricing as a Response to Uncertainty in Climate Policy." in Fouquet, Roger (ed.) *Handbook on Energy and Climate Change* Cheltenham: Edward Elgar, pp. 415-433.

Book Reviews

94. McKittrick, Ross R. (2002) Review of *The Collapse of the Kyoto Protocol and the Struggle to Slow Global Warming* (by David Victor) *Policy Options*. May-June 2002.

95. McKitrick, Ross R. (2002) Review of *Economics of Coastal and Water Resources: Valuing Environmental Functions* (by R.K. Turner *et. al.*, eds.) *The World Economy* June 2002.
96. McKitrick, Ross R. (2003) Review of *International Environmental Policy: Interests and the Failure of the Kyoto Process* by Sonja Boehmer-Christiansen and Aynsley Kellow (*The World Economy* Spring 2003)
97. McKitrick, Ross R. (2007) Review of *Responsible Growth for the New Millennium: Integrating Society, Ecology and the Economy*. The World Bank. *The World Economy* May 2007.