***Curriculum Vitae***

**John Livernois**

April 2025

**NAME:** LIVERNOIS, John

**RANK:** Professor

**STATUS:** Tenured

**DEGREES**

 B.A.(Hon) Economics/Philosophy University of Toronto 1976

 M.A. Economics University of British Columbia 1978

 Ph.D. Economics University of British Columbia 1984

**EMPLOYMENT HISTORY**

 1982-1988 Assistant Professor, Economics, University of Alberta

 1989-1990 Visiting Fellow, Economics, University of Southampton

 1988-1990 Associate Professor, Economics, University of Alberta

 1998-1999 Visiting Fellow, Australian National University

 1991- 2001 Associate Professor, Economics, University of Guelph

 2002 - 2024 Professor, University of Guelph

 2003 - 2008 Chair, Department of Economics

 2008 - 2009 Administrative Leave

 2009 - 2011 Chair, Department of Economics

 2012 - 2013 Acting Associate Vice-President, Research (Research Services)

 2014 - 2015 Interim Vice-President, Research

 2013 - 2018 Associate Vice-President, Research Services

 2018-2019 Administrative Leave

 2019-2020 Interim Executive Director, Research Innovation Office

 2020- 2024 Professor, Department of Economics and Finance

 2023 – 2024 Executive Lead, Strategic Transformation

 2024 – current Professor Emeritus

**HONOURS AND AWARDS**

Fall 2020: Inducted as an inaugural Fellow into the Association of Canadian Resource and Environmental Economics

**SCHOLARLY AND PROFESSIONAL ACTIVITIES**

 Member: Science Advisory Board, International Joint Commission, 2016 - 2025.

 Editorial Board Member, *Canadian Journal of Economics*, July 1, 1999 - June 31, 2002

Editorial Board Member, *Journal of Environmental Economics and Management*, July 1 2001 – 2008

Chair, Adjudication Committee, SSHRC Insight Development Grants, March 2013, 2014

Book Review Editor, *Canadian Public Policy*, September 1992-May 1994

External referee for tenure, University of Alberta (2010, 1995), University of Victoria (1995)

External referee for promotion to Professor: Simon Fraser University (1995), Dalhousie University (2002) and promotion to Associate Professor: University of Ottawa (1997), University of Victoria (1995), University of Alberta (1995)

External examiner of Ph.D. theses: University of Montreal, 2010; UBC, 2010; Queen’s University, 2001; University of British Columbia, 2000; York University, 2000; University of Toronto, 1995; McGill University, 1993; University of Ottawa 1992.

Visiting Fellow: Center for Economic Studies, University of Munich, 3 weeks in March 1996

Founder: Canadian Resource and Environmental Economics Study Group, 1991

Program Organizer for the Canadian Resource and Environmental Economics Study Group Conference, 1991 (founding conference), 2000 and 2010.

Program Committee: Canadian Resource and Environmental Economics Study Group Conference (1991, 1995, 1997, 1999, 2000 )

Consultant to: Department of Finance, Canada; Walkerton Inquiry; Alberta Treasury; Conference Board of Canada; Alpac Forest Company; CIDA consultant to Ministry of Finance, Republic of Indonesia; CIDA consultant to Malaysian Institute of Economic Research; CIDA consultant to Thailand Development Research Institute, National Round Table on the Environment and the Economy, Ontario Ministry of the Environment

 Referee for: *American Economic Review*

 *American Journal of Agricultural Economics*

 *Canadian Journal of Economics*

 *Canadian Public Policy*

 *Environmental and Resource Economics*

 *Journal of Environmental Economics and Management*

 *Journal of Economic Dynamics and Control*

 *Journal of Public Economics*

 *Natural Resource Modelling*

 *Rand Journal of Economics*

 *Resource and Energy Economics*

 *SSHRCC*

 *Genome Canada*

5. **CAREER INVOLVEMENT IN GRADUATE SUPERVISION**

 ***Graduate Supervision***

 Completed: 21 MA, 11 PhD

 ***Supervisory Committee Membership***

 Completed: 2 MSc, 6 PhD

 Continuing: 1 PhD

 ***PhD Theses Supervised***

Bhargava, A. 1985 A Model of Exploration for Oil (University of Alberta)

Lintner, A. 1995 Evaluating Control Instruments for Improving Diffuse Sources Water Quality

Colwill, T. 1996 Shrimp Farms and the Shrimp Fishery: An Economic Analysis

Forsyth/Insley, M. 1996 The Economics of Efficient Information Acquisition for Environmental Policy Making: Sequential Decisions Under Uncertainty (co-supervisor)

Amoah, B. 1998 An Empirical Analysis of the Impacts of Taxes and Royalties on Petroleum Supply in Alberta

Zhang, X. 1998 An Application and Test of Hotelling's Rule: The Case of Old Growth Forest

Schott, S. 1999 Optimal Management of Multiple-Cohort Fisheries With an Empirical Application to the Harvest of Northern Cod

Martin, P. 2001 Essays on the Intertemporal Allocation of Natural Resources in the Presence of Environmental Amenities

Raymond, M. 2001 Three Essays on Regulatory Issues in Environmental

 Economics

Khaleghi, A. 2008 Three Essays on Environmental Economics

Oestreich, M. 2013 Self-Reporting under Competitive Auction Mechanisms

 (co-supervisor)

**EXTERNAL RESEARCH FUNDING**

**Date of Type of Amount**

**Award Grant/Contract Source $ Duration Purpose**

1987 Grant-joint Energy Mines and 8,611 2 years Research

 (with D. Ryan) Resources, Canada

1990 Grant-individual SSHRC 17,000 2 years Research

1991 Conference SSHRC 3,528 1 year Conference

1994 Grant-joint Envir. Canada 30,000/yr 3 years Research

 (with A. Weersink)

2000 Grant-joint Envir. Canada 8,000 1 year Conf.

 (with R. McKitrick) support

2000 Grant-individual SSHRC 42,500 3 years Research

2019 Grant-joint Genome Canada $8,000,000 4 years Research

 (with Daniel Heath and ~25 other researchers)

**INTERNAL RESEARCH FUNDING**

**Date of Type of Amount**

**Award Grant/Contract Source $ Duration Purpose**

1996 Grant-individual SSHRC(UofG) 2,000 1 year Research

1997 Grant-individual SSHRC(UofG) 1,324.69 1 year Travel

2000 Grant-individual SSHRC(UofG) 660 l year Travel

**PUBLICATIONS**

 ***Life-time Summary***

 1) Books - 2

 2) Chapters in Books - 7

 3) Papers in Refereed Journals - 23

 4) Non-Refereed Papers and Reports - 15

 5) Papers Presented - 46

 6) Book Reviews - 5

**Books**

Hoy, M., J. Livernois, C.J. McKenna, R. Rees, T. Stengos, *Mathematics for Economics* *fourth edition*, The MIT Press, Cambridge, Massachusetts and London, England, 2022.

Weersink, A and J. Livernois (eds.), “Exploring Alternatives: Potential Application of Economic Instruments to Address Selected Environmental Problems in Canadian Agriculture”, Agriculture and Agri-Food Canada, April 1996. (199 pages)

 **Chapters in Books**

Livernois, J. “An Overview and Analysis of Non-Tax Provincial Revenue Sources”, in M. McMillan *Provincial Public Finances*, Canadian Tax Foundation, Toronto, 1991.

Weersink, Alfons and J. Livernois, “Introduction” in Weersink, Alfons and J. Livernois (eds) “Exploring Alternatives: Potential Application of Economic Instruments to Address Selected Environmental Problems in Canadian Agriculture”, Agriculture and Agri-Food Canada, April 1996. pp 1 - 13

Livernois, J. “The Economic Perspective: Resources and Environment in the New Millenium”, in Chesworth, W., M.R. Moss, and V.G. Thomas, *Malthus and the Third Millenium*, The Kenneth Hammond Lectures on Environment, Energy and Resources, 2000 Series, Faculty of Environmental Sciences, University of Guelph., 2000.

Evers, F., J. Livernois and M. Mancuso, “Where are the Boys? Gender Imbalance in Higher Education”, *Journal of the Programme on Institutional Management in Higher Education, Higher Education and Management Policy*, Volume 18, No. 2.  OECD 2006: 103 – 116

Carr, Brian and J. Livernois, “Resource Taxation”, Chapter 10 in Kerr, Heather. Jack Mintz and Ken McKenzie, *Tax Policy in Canada*, 2012, Canadian Tax Foundation

Livernois, J. and H. Thille, “Empirical Evidence on the Theory on Nonrenewable Resource Economics”, in Halvorsen, Robert and D. Layton, *Handbook on the Economics of Natural Resources,* 2015, Edward Elgar Publishing Ltd.

Livernois, J. “On the Empirical Significance of the Hotelling Rule”, reprinted in Robert N. Stavins (ed) *Economics of the Environment 6th edition*. WW. Norton and Co. New York, London, 2012

 **Papers in Refereed Journals**

Bradley, P, J.F. Helliwell and J. Livernois, “Efficient Taxation of Resource Income: The Case of Copper Mining in British Columbia”, *Resources Policy*, September 1981, pp. 161-170.

Livernois, J. “The Taxing Game of Lotteries in Canada”, *Canadian Public Policy* 12(4), December 1986, pp. 622-627.

Livernois, J. and R. Uhler, “Extraction Costs and the Economics of Non-Renewable Resources”, *Journal of Political Economy*, February 1987, pp. 195-203.

Livernois, J. “Empirical Evidence on the Characteristics of Extractive Technologies: The Case of Oil”, *Journal of Environmental Economics and Management*, March 1987, pp. 72-86.

Livernois, J. “The Redistributive Effects of Lotteries: Evidence from Canada”, *Public Finance Quarterly* 15(3), July 1987, pp. 339-351.

Livernois, J. “Estimates of Marginal Discovery Costs for Oil and Gas”, *Canadian Journal of Economics* XXI (2), May 1988, pp. 379-393.

Livernois, J. and D.L. Ryan, “Testing for Non-Jointness in Oil and Gas Exploration: A Variable Profit Function Approach”, *International Economic Review*, 30(2), May 1989, pp. 479-504.

Livernois, J. “Marginal Effective Tax Rates for Capital in the Canadian Mining Industry: An Extension”, *Canadian Journal of Economics*, XXII(1), February 1989, pp. 184-194.

Karp, L. and J. Livernois, “On Efficiency-Inducing Taxation for a Non-Renewable Resource Monopolist”, *Journal of Public Economics*, 49(2), 1992: 219-239.

Livernois, J. “A Note on the Effect of Tax Brackets on Non-Renewable Resource Extraction”, *Journal of Environmental Economics and Management*, Vol.22, 1992, pp. 272-280.

Karp, L. and J. Livernois, “Using Automatic Tax Changes to Control Pollution Emissions”, *Journal of Environmental Economics and Management*, 27, 1994, pp. 38-48.

Weersink, A., and Livernois, J. “The Use of Economic Instruments to Resolve Water Quality Problems from Agriculture”, *Canadian Journal of Agricultural Economics*, 44(4), 1996:345-53.

Weersink, A., Livernois, J., J. Shogren, and J. Shortle, “Economic Instruments and Environmental Policy in Agriculture”, *Canadian Public Policy* Vol. 24. No. 3 1998: 309-27.

Livernois, J. with T. Levantis, “Taking a Piece of the Pie: Papua New Guinea’s Log Exports and Optimal Taxation”, *Pacific Economic Bulletin*, Volume 13, No. 2, pp. 99-116.

Livernois, J. and C.J. McKenna, “Truth or Consequences: Enforcing Pollution Standards with Self-Reporting”, *Journal of Public Economics* Vol. 73 No. 3, 1999: 415- 40

Livernois, J. and P. Martin, “Price, Scarcity Rent, and a Modified r-Percent Rule for Nonrenewable Resources”, *Canadian Journal of Economics* Vol 34 No. 3, 2001: 827-45.

Livernois, J., H. Thille and X. Zhang, “A Test of the Hotelling Rule using Old-Growth Timber Data”, *Canadian Journal of Economics*, February 2006, vol 39 Issue 1: 163-186.

Livernois, J. “The Empirical Significance of the Hotelling Rule”, *Review of Environmental Economics and Policy* Winter 2009 Vol. 3: 22 – 41.

Livernois, J. “The Economics of Ending Canada’s Commercial Harp Seal Hunt”, *Marine Policy* 2010, Vol 34, No. 1: 42- 53.

Livernois, J. and Arian K. Moghadam, “The Abatement Cost Function for a Representative Vehicle Inspection and Maintenance Program”, *Transportation Research Part D: Transport and Environment*, Volume 15, Issue 5, July 2010: 285-297.

Cooke, S.J., M.F. Docker, N.E. Mandrak, N. Young, D.D. Heath, K.M. Jeffries, A. Howarth, J.W. Brownscombe, J. Livernois, C.A.D. Semeniuk, P.A. Venturelli, A.J. Danylchuk, R.J. Lennox, I. Jarić, A.T. Fisk, C.S. Vandergoot, J.R. Britton and A.M. Muir. “Technoscience and the modernization of freshwater fisheries assessment and management”. *Environmental Technology & Innovation,* Vol 28, Nov. 2022

Bernos, T., Yates, M., Young, R. Imrit, A., Myler, E., Sharma, S., Docker, M., Fitzgerald, A., Hanner, R., Heath, D., Livernois, J., Mandrak, N., “Environmental DNA (eDNA) applications in freshwater fisheries management and conservation in Canada: overview of current challenges and opportunities”, *Canadian Journal of Fisheries and Aquatic Sciences*, March 2023, 80(7), 1170-86.

Murray, Michael, John Livernois, John Bratton, Mark Burrows, “Addressing Lake Erie eutrophication: an assessment of recent progress and recommendations”. *Aquatic Ecosystem Health and Management*, forthcoming 2025.

 **Other Papers and Reports**

“An Overview of Econometric Modelling with Applications to Resource Management”, *Role of Economics in Integrated Resource Management*, Symposium Proceedings, October 1985; Alberta, Energy, Forestry, Lands and Wildlife.

“The Cost of Finding Oil and Natural Gas in Alberta: An Econometric Approach”, January 1987. Prepared for Alberta Department of Energy and Natural Resources.

“A Review of Methodology in Gravel Demand Forecasting”, 1987. Report prepared for Alberta Research Council.

“Forecast of Exploration and Development Expenditures in the Alberta Oil and Gas Industry, 1988 and 1989". Reports prepared for Edmonton Power.

“Oil and Gas Reserves Prices”, 1989. Report prepared for The Conference Board of Canada.

“The Impact of the Value-Added Tax on the Energy Industries of Alberta, 1989". Report prepared for the Treasury Department, Government of Alberta. (with P. Boothe)

“The Impact of Rent Collection and Public Management Practices on Natural Resource Industries in Canada, August 1989". Report prepared for the Department of Finance, Energy and Resource Policy Division.

“Economic Instruments and Environmental Protection: A Discussion Paper, 1991". Report prepared for Alberta Environment, Corporate and Strategic Management. (with W. Adomowicz)

“The Economic Costs of the Walkerton Water Crisis”, The Walkerton Inquiry, Commissioned Paper No. 14, Toronto, 2001.

“Value-of-Life Estimates in an Economic Cost Assessment”, The Walkerton Inquiry, Commissioned Paper No. 15, Toronto, 2001.

“Determining an Aggregate Indicator of Sustainability for the ESDI Initiative” Report prepared for the National Roundtable on the Environment and the Economy, April 2002.

“Review of the Proposed Procedure for the Calculation of the Monetary Benefit Component of Environmental Penalties”, January 2007, Report prepared for the Ontario Ministry of the Environment (24 pages)

“Assessing the Economic Value of Protecting the Great Lakes Ecosystems: A Cost-benefit Analysis of Habitat Protection and Restoration”, prepared with Marbek Consultants for Ontario Ministry of the Environment, July 2009

“Assessing the Economic Value of Protecting the Great Lakes: Rouge River Case Study for Nutrient Reduction and Nearshore Health Protection”, prepared with Marbek Consultants for Ontario Ministry of the Environment, July 2009

“Nutrients in Lake Erie and Lake Ontario: Synthesis of International Joint Commission Recommendations and Assessment of Domestic Action Plans” A Report Submitted to the International Joint Commission by the Great Lakes Science Advisory Board and the Water Quality Board Joint Work Group on Nutrient Synthesis, June 2023. (primary authors are J. Livernois and M. Murray).

 **Papers Presented**

“Empirical Evidence on the Characteristics of Extractive Technologies: The Case of Oil”, presented at Canadian Economics Association Meetings, 1983, University of British Columbia.

“An Overview of Econometric Modelling with Applications to Resource Management”, *Role of Economics in Integrated Resource Management*, presented at Symposium on Resource Management, Alberta Department of Energy and Natural Resources, 1985.

“Testing for Non-Jointness in Oil and Gas Exploration: A Variable Profit Function Approach”, Invited paper presented at University of Montreal and University of Saskatchewan, 1986.

“Estimates of Marginal Discovery Costs for Oil and Gas”, presented at Canadian Economics Association Meetings, 1987 and University of Guelph, 1987.

Conference on Unstable Commodity Markets organized by the Western Centre for Economic Research and the C.D. Howe Institute, 1988.

“On Efficiency-Inducing Taxation for a Non-Renewable Resource Monopolist” presented at the University of Guelph and McGill University, 1989.

“An Overview and Analysis of Non-Tax Provincial Revenue Sources, presented at the Conference on Provincial Finances, Canadian Tax Foundation, Toronto, 1989.

"On the optimal taxation of natural resource rent", presented at the University of Southampton, 1990.

“On Efficiency-Inducing Taxation for a Non-Renewable Resource Monopolist”, presented at the Canadian Economics Association Meetings, 1991 and the University of Quebec at Montreal, 1991.

"On the optimal taxation of natural resource rent", presented at the 1991 "GREEN" conference at Laval University.

Ontario Roundtable on the Environment Workshop on Information Policy, Toronto, March 6, 1992. Workshop participant.

"Truth or Consequences" Enforcing Pollution Standards," April 29/93. Invited paper: Laval University,

"Using Automatic Tax Changes to Control Pollution" presented at the 2nd Annual Meeting of the Canadian Resource & Environmental Economics Study Group at Laval, October 1992.

“Exhaustible Resource Depletion in the Presence of Stock-Dependent Extraction Costs”, presented at the Canadian Economics Association Meetings, June 1995.

“Truth or Consequences: Enforcing Pollution Standards”, presented at Brock University (Fall 1994), Wilfrid Laurier University (Winter 1995), Canadian Resource and Environmental Economics Study Group (October 1994), University of Victoria (Winter 1996), Symposium on Environmental Policy, University of Guelph (Winter 1996), Center for Economic Studies, Munich (Spring 1996).

Symposium on Economic Instruments and Cross Compliance, Environment Bureau of Agriculture Canada, presenter (Winter 1996), Ottawa.

Western Center for Economic Policy, panelist on oil sands taxation, Edmonton (October 1995).

“Was Hotelling Right? Depletion Effects and the Scarcity Rent Path”, presented at University of Waterloo, (September 1997) Australian National University, (May 1999), University of Tasmania, (April 1999) University of New South Wales, (May 1999)

“Truth or Consequences: Enforcing Pollution Standards with Self-Reporting”, presented at European Association of Environmental and Resource Economics Annual Conference in Tilburg (June 1997), Environmental and Resource Economists Joint Meetings with the American Agricultural Economics Association Annual Conference, Toronto (July 1997), Cornell University (May 1997), York University (November 1997) Australian National University (September 1998), University of Queensland (April 1999), Tasmanian Economic Society (April 1999), University of Sydney (April 1999).

“Optimal Taxation of Resource Rent with Imperfectly Observable Cost,” presented at the 10th Annual Conference of the European Association of Environmental and Resource Economists in Crete, (July 2000); Wilfrid Laurier University, (January 2001) and University of Quebec at Montreal, (April 2001).

“The Walkerton Crisis in Retrospect”, Invited Speaker at the Nova Scotia Agricultural College, November 2006.

"The Abatement Cost Function for Motor Vehicle Pollution Emissions: Evidence from Canada" Paper Presented at Australian National University and at the Australian Agricultural and Resource Economics Annual Conference in Queenstown, NZ, February 2007.

“The Economics of Climate Change Policies”, Invited Speaker for Cafe Scientifique, Guelph, December 2007.

“Making Large Classes Small(er): Assessing the Effectiveness of a Hybrid Teaching Technology” (with B. Bloemhof), Paper presented at the Canadian Economics Association Conference, June 2011.

“Empirical Evidence on the Theory of Nonrenewable Resource Economics”, Paper presented at Cornell University, June 2013.

 **Book Reviews**

Review of “Oil and Gas: Ottawa, the Provinces and the Petroleum Industry”, by James Laxer, *Canadian Public Policy*, June 1984, p.250.

Review of “Petroleum Rent Collection Around the World”, by Alexander Kemp, *Natural Resources Forum*, May 1989.

Review of “Empirical Modelling of Canadian Petroleum Exploration Activity”, by Catherine M. Desbarats, *Canadian Public Policy*, June 1990.

Review of “Strategies for sustainable development: experiences from the Pacific,” John Overton and Regina Scheyvens (eds), UNSW Press, Sydney 1999 in *Pacific Economic Bulletin*, Vol. 15, No. 1, 2000, pp. 174-6.

Review of “The economics of ecosystems and biodiversity: ecological and economic foundations” by Pushpam Kumar’, *Erasmus Journal for Philosophy and Economics,* Volume 4, Issue 2, Autumn 2011, 130 - 134. http://ejpe.org/pdf/4-2-br-10.pdf

**Service**

Chair of Provost’s Strategic Financial Initiatives Team #1 (1 day per week) Fall 2019 to January 2022.

Member: Climate Action Plan Committee, Spring 2023 ongoing.

**Service prior to Appointment as Associate Vice-President.**

University

Vice-Chair, Senate Committee on Honorary Awards, 2011 - 12

Member, Senate Committee on Honorary Awards, 2010 -11

Chair, Senate Committee on University Planning, 2005 to 2008

Chair, Council of Department Chairs, 2005 to 2008

Member, Senate Executive Committee, 2005 to 2008

Member, Senate Committee on Internal Reviews, 2005 to 2008

Chair, Board of Graduate Studies Program Committee 1997-1998

Member, Board of Graduate Studies Executive Committee 1997-1998

Chair, Board of Graduate Studies Division II 1997-98

Co-Chair, Graduate Students’ Day Workshop on the Graduate Student and the Advisor September 1997

Member, Senate Library Committee, 1994 - 1995

Chair, Senate Library Committee, June 1995 - June 1996

Member, Senate Executive Committee, June 1995 - June 1996

Member, B.Sc. (Environment) Program Committee, 1993 - 1997

Member, Research Board Grants Committee, September 1995 - 1997

Member, Board of Graduate Studies Subcommittee on Interdisciplinary Programs, 1994 - 1996

College

Acting Dean (CSHAS) various times for short periods.

Chair, College Ad-Hoc Committee to Identify Merger Issues, November 1996

Member, College Research Task Force, April 1998

College Representative on P&T Committees 1997 - 2001(CSAHS)

Department

Chair, Department of Economics, 2003 to 2012

Member, Departmental Recruiting Committee, 1993 - 1997, 200 - 2003

Member, Promotion and Tenure Committee, 1993-1994, 1997 – 1998, 2023

Director, PhD Program in Resource and Environmental Economics, 1991 - 2003

College Representative, Tenure and Promotion Committees, 1999 - 2003

Graduate Coordinator, 2000 – 2003