

Curriculum Vitae

John Livernois

1. **NAME:** LIVERNOIS, John
RANK: Professor
STATUS: Tenured

2. **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 |

3. **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 - present | Professor, University of Guelph |
| 2003 - 2008 | Chair, Department of Economics |
| 2008 - 2009 | Administrative Leave |
| 2009 - | Chair, Department of Economics |

4. **SCHOLARLY AND PROFESSIONAL ACTIVITIES**

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
Book Review Editor, *Canadian Public Policy*, September 1992-May 1994
External referee for tenure, University of Alberta (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: 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

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

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

5. CAREER INVOLVEMENT IN GRADUATE WORK

Graduate Supervision

Completed: 18 MA, 10 PhD

In Progress: 0 MA, 0 PhD

Supervisory Committee Membership

Completed: 2 MSc, 4 PhD, 1 PhD in progress.

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, M. | 1996 | The Economics of Efficient Information Acquisition for Environmental Policy Making: Sequential Decisions Under |

| | | |
|--------------|------|--|
| Amoah, B. | 1998 | Uncertainty 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 |

5. EXTERNAL RESEARCH FUNDING

| <u>Date of Award</u> | <u>Type of Grant/Contract</u> | <u>Source</u> | <u>Amount \$</u> | <u>Duration</u> | <u>Purpose</u> |
|----------------------|-------------------------------------|------------------------------------|------------------|-----------------|----------------|
| 1987 | Grant-joint (with D. Ryan) | Energy Mines and Resources, Canada | 8,611 | 2 years | Research |
| 1990 | Grant-individual | SSHRC | 17,000 | 2 years | Research |
| 1991 | Conference | SSHRC | 3,528 | 1 year | Conference |
| 1994 | Grant-joint (with A. Weersink) | Envir. Canada | 30,000/yr | 3 years | Research |
| 2000 | Grant-joint (with R. McKittrick) | Envir. Canada | 8,000 | 1 year | Conf. support |
| 2000 | Grant-individual | SSHRC | 42,500 | 3 years | Research |

6. INTERNAL RESEARCH FUNDING

| <u>Date of Award</u> | <u>Type of Grant/Contract</u> | <u>Source</u> | <u>Amount \$</u> | <u>Duration</u> | <u>Purpose</u> |
|----------------------|-------------------------------|---------------|------------------|-----------------|----------------|
| 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 | 1 year | Travel |

7. PUBLICATIONS

Life-time Summary

- 1) Scholarly Books - 1 co-authored, 1 co-edited.
- 2) Chapters in Books - 3
- 3) Papers in Refereed Journals - 18
- 4) Major Invited Contributions and/or Technical Reports - 11
- 5) Abstracts and/or Papers Read - 39
- 6) Others (workshops presented, etc) - 6

Scholarly Books (authored)

Hoy, M., J. Livernois, C.J. McKenna, R. Rees, T. Stengos, *Mathematics for Economics*, Addison-Wesley, 1996 (947 pages).

Hoy, M., J. Livernois, C.J. McKenna, R. Rees, T. Stengos, *Mathematics for Economics* second edition, The MIT Press, Cambridge, Massachusetts and London, England, 2001 (1129 pages)

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

"An Overview and Analysis of Non-Tax Provincial Revenue Sources", in M. McMillan (ed.) *Provincial Public Finances*, Canadian Tax Foundation, Toronto, 1991.

"Introduction" by Weersink, Alfons and J. Livernois 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

“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.

“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 (with Fred Evers and Maureen Mancuso)

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: 163-86.
- Livernois, J. “The Empirical Significance of the Hotelling Rule”, *Review of Environmental Economics and Policy* Winter 2009 Vol. 3: 22 – 41.

Discussion Papers

- Livernois, J. “The Economics of Ending Canada’s Commercial Harp Seal Hunt”, University of Guelph Discussion Paper 2009-3.

Major Invited Contributions and/or Technical 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.

“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)

Abstracts and/or Papers Read

Paper presented, Canadian Economics Association Meetings, 1983, University of British Columbia.

Paper presented, Symposium on Resource Management, Alberta Department of Energy and Natural Resources, 1985.

Invited paper: University of Montreal, University of Saskatchewan, 1986.

Paper presented, Canadian Economics Association Meetings, 1987.

Invited paper: University of Guelph, 1987.

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

Invited paper: University of Guelph, 1989.

Invited paper: McGill University, 1989.

Paper presented, Conference on Provincial Finances, Canadian Tax Foundation, Toronto, 1989.

Invited paper: University of Southampton, 1990.

Paper presented Canadian Economics Association Meetings, 1991.

Invited paper: University of Quebec at Montreal, 1991.

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

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

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

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

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

Invited paper: "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).

Invited paper: "Was Hotelling Right? Depletion Effects and the Scarcity Rent Path", presented at University of Waterloo, (September 1997) Australian National University, The Faculties, May 1999 University of Tasmania, April 1999 University of New South Wales, May 1999

Invited paper: "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, Research School of the Social Sciences, 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.

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.

Work in Progress

“Optimal Taxation of Resource Rent with Imperfectly Observable Cost”,

“The Abatement Cost Function for Motor Vehicle Pollution Emissions: Evidence from Canada”

University and Department Service

Chair, Department of Economics, 2003 to present
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
Director, PhD Program in Resource and Environmental Economics, 1991 - 2003
College Representative, Tenure and Promotion Committees, 1999 - 2003
Graduate Coordinator, 2000 - 2003
Recruitment Committee, Department of Economics, 2000 - 2003
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
Chair, College Ad-Hoc Committee to Identify Merger Issues, November 1996
Member, College Research Task Force, April 1998
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
Member, Departmental Recruiting Committee, 1993 - 1997,
Member, Promotion and Tenure Committee, 1993-1994, 1997 - 1998