# Curriculum Vitae - Gordon Edwards

May 2025

Perso	nal:				
	Born: July 18, 1940, Lansdowne, Ontario		Citizenship: Canadia	an	
Educa	ation:		·		
	Queen's University	Ph.D.	Mathematics		1972
	University of Chicago	M.A.	English Literature		1964
	University of Chicago	M.S.	Mathematics		1962
	University of Toronto	B.Sc.	Mathematics & Phys	sics	1961
- Acad	emic Awards -		,		
	University of British Columbia	n:			
	National Research Council Po		owship		
	1972		•		
	Queen's University:				
	Queen Elizabeth II Doctoral F	ellowship			1971
	Canada Council Doctoral Fell	owship,			1970
	National Research Council Do	octoral Fellowsh	ip,		1969
	University of Chicago:				
	U. of Chicago Teaching Fellov	vship		-	1962-63
	Woodrow Wilson Fellowship,				1961
	University of Toronto:				
	Gold Medal in Mathematics a	•			1961
	Arthur W. Anglin Memorial Sc	•			1960
	First Agnes Kelly Award in Ma	ath & Physics			1957
- Non-	Academic Awards -				201=
	Peace Quest – named one of 15		cemakers	2011	2017
	YMCA Peacemaker Medallion Av			2014	2007
	The Rosalie Bertell Lifetime Achi				2007 2006
	The Nuclear Free Future Award, White Owl Conservation Award	VVIIIUUW KUCK, /	ANZUNA		2006 1985
	Wille Owl Conservation Award				1303

# **Teaching Experience**

## - College and Undergraduate University -

Vanier College	Professor, Mathematics and Science	1974 to 2010
Concordia University	Environmental Studies	1974 to 77
U. of British Columbia	Calculus and Vector Geometry,	1972/73
Queen's University	Differential Equations, Linear Algebra	1969 to 72
University of W. Ontario	Abstract Algebra, Calculus, & Shakespeare	1962 to 64
University of Chicago	Finite Mathematics, Logic, Calculus	1962 to 64
University of Toronto	Differential Equations for Engineers	1960/61

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- Honorary Appointments -

Concordia University, Adjunct Professor of Science & Human Affairs 1976-79

- Post-Graduate Courses -

Concordia University Chemistry in Society (Masters level course)

1976

McGill University Biology in Society (Masters level course) 1977

# Work Experience ( non-teaching )

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- Appointments -		
Science Council of Canada	Nation-wide study of Math in Canada	1973/74
Fire Marshal of Ontario	Ontario Lightning Rod Inspector	1958 to 61
- Consulting Work -		
Kebaowek First Nation (Algonquin)	Proposed tritium facility at Chalk River L	<i>abs</i> 2023
Can. Nuclear Safety Commission	Darlington boiling water reactor (BWRX-	<i>300)</i> 2023
Port Hope Health Committee	Radioactive decontamination of the com	nmunity2022
Port Hope Health Committee	Cameco nuclear fuel manufacturing licer	<i>nce</i> 2022
Can. Environmental Law Assoc.	contaminated home construction in Ellic	
Passamaquoddy First Nation	safety & waste issues re Point Lepreau re	eactor 2022
Can. Environmental Law Assoc.	health issues re uranium fuel fabrication	
Citizens of Renfrew County	radioactive liabilities at Chalk River Labs	2019
Ontario Clean Air Alliance	nuclear waste management, Pickering N	
Citizens of Renfrew County	legacy nuclear waste at Chalk River Labs	
Citizens of Renfrew County	licence extension hearings, Chalk River L	
Mouvement vert Mauricie	3 critical analyses, Darlington New Build	
Mining Watch Canada	critique of EIS for Matoush Uranium pro	
Serpent River First Nation	workshop: health hazards of uranium mi	•
Conférence régionale des élus	medical aspects of radionuclides and the	
de la Côte-Nord	impacts of uranium exploration and min	•
Nunavut Planning Commission,	issues on uranium exploration and minir	•
Congress of Aboriginal Peoples,	issues on high-level radioactive waste	2006 & 07
Inuit Tapiriit Kanatami (4 times)	background on high-level rad waste	2006 & 07
	dry storage of irradiated nuclear fuel	1998
Federal Siting Task Force,	finding a repository for Port Hope waste	es 1990 & 93
Canadian Environmental	nuclear power, uranium & radioactivity,	
Advisory Council ( CEAC ),	plus associated health & environmental	
National Film Board of Canada,	"Uranium"~ a documentary film (60 m)	1990
Energy Mines & Resources,	"Energy Options" ~ public consultation	
, ,	d core integrity of the Turkey Point reactor	•
Auditor General of Canada,	comprehensive audit - Atomic Energy Cor	
National Film Board of Canada,	"Speaking Our Peace" ~ documentary fil	
National Film Board of Canada,	energy policy & uranium mining 1978, 8	
C.T.V. television network,	depleted uranium and nuclear weapons	1985
T.V. Ontario (Toronto),	nuclear safety issues in Ontario [doc seri	=
Prince Edward Island	externalities of the Point LePreau nuclea	r
Electric Power Inquiry,	power plant in New Brunswick	1982
Select Committee on Ontario Hydro Affairs (Legislature)	reactor meltdowns, uranium processing and radioactive waste management op	
Ontario Royal Commission	reactor safety, radioactive waste, reproce	
on Electric Power Planning,	and cross-examination of experts (5 m	_
Consumer & Corporate Affairs,	nuclear economics in Canada	1977/78
consumer a corporate randing,		.5,.0

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United Steelworkers of America, Science Council of Canada, C.B.C. "The Nature of Things", Cluff Lake Board of Inquiry on Uranium Mining (Saskatchewan), radon exposure standards for new homes 1977/78 consultant on radiation health effects, 1977 & 78 long-term health effects of atomic radiation, 1977 issues related to the uranium fuel chain and cross-examination of experts (5 weeks) 1977

#### - Invited Testimony to Legislative Committees -

House of Commons Standing Committees:

Environment Committee,	on radioactive waste governance in Can	<i>ada</i> 2022
Natural Resources Committee,	on the status of Canada's nuclear indust	<i>try</i> 2016
Natural Resources Committee,	on radioactive steam generator transpo	rt 2011
Natural Resources Committee,	on the isotope production crisis	2008
Natural Resources Committee,	on nuclear liability and compensation	2008
Foreign Affairs Committee,	on plutonium and the MOX initiative	1998
Energy Mines and Resources Cttee,	on nuclear energy and sustainability	1991
Environment and Forestry Cttee,	on high level radioactive wastes	1987
Consumer & Corporate Affairs,	on issues related to food irradiation	1987

Commission permanente de l'énergie et des ressources de l'Assemblée nationale,

sur les options énergétiques 1983

Legislative Assembly of the Northwest Territories (Yellowknife), 3 sessions

on uranium mining in arctic regions 1980/81

Energy Committee of the New Brunswick Legislature,

1979 on CANDU reactor safety analysis

House of Commons Standing Committee on National Resources & Public Works,

on the management of irradiated nuclear fuel 1978

Commission permanente de l'énergie et des ressources de l'Assemblée nationale,

sur l'énergie nucléaire au Québec 1977

Prince Edward Island Legislature, on nuclear power issues in the Maritimes 1974

#### - Expert Sworn Testimony -

US Federal court, Lansing Michigan	transport of weapons-grade plutonium	2000
Federal Court, Ottawa	dry storage of irradiated nuclear fuel	1999
DFAIT, Gov't of Canada, Ottawa	"expert group" on nuclear weapons polic	cy1999
National Energy Board, N. Brunswick	externalities of nuclear power	1980
US Atomic Safety & Licensing Board	safety of Turkey Point (Miami) reactor	1985
Select Committee on Ontario Hydro	reactor safety, nuclear wastes, uranium	1979/80
Royal Commission on Electric Power	radioactive waste and reactor safety	1977/78
Cluff Lake Inquiry on Uranium Mining	weapons proliferation, health, reactor safe	ty
1977		

#### - Testimony at Environmental Assessment Hearings -

Quebec BAPE hearings on uranium Deep Geologic Repository: Kincardine Darlington New Build - CEAA hearings critique of OPG EIS, for Darlington NGS Joint EA hearings: Matoush U project Federal hearings: Midwest U project Quebec BAPE hearings on Gentilly-2 Federal hearings on BRUCE spent fuel US DOE hearings on MOX transport

extending Quebec's uranium moratorium2014 critique of OPG EIS, for the LILW DGR 2013/14 critique of Strateco EIS, for Matoush project2010 critique of Midwest EIS, uranium mine 2007 Expansion of Radwaste Management Area 2004 dry storage of high-level radwaste 1998 proposed plutonium fuel shipments 1997

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Seaborn hearings on used nuclear fuel
Federal hearings on radioactive tailings
Joint hearings on <i>Grande Baleine</i>
BAPE hearings on <i>Gentilly-2</i>
Joint hearings on Sask. Uranium Mines
Federal hearings on Eldorado project
Federal hearings on Brinex project
Elliot Lake hearings on radon in homes

AECL's proposed geologic repository (HLV	<i>u)</i> 1990-97
proposed Elliot Lake decommissioning	1996
critique of H-Q energy demand analysis	1995
dry storage of high-level radwaste	1994
uranium mill tailings management	1993
<i>uranium refinery (UO<sub>3</sub> plant)</i> 1978,	1980
proposed uranium mine in Labrador	1979
re-analysis of lung cancer risk data	1978

#### - Interventions at Licensing Hearings -Boiling Water Reactor (Darlington) construction & env. assessment exemption 2024 Point Lepreau NGS (New Brunswick) extending nuclear plant operating licence 2023 CNL Radioactive cleanup (Port Hope) licencing decontamination for another decade 2022 Cameco Nuclear Fuel Fabrication Plant extending Port Hope licence for ten years 2022 Darlington, Bruce and Pickering NPPs extending operations & reactor core rebuild 2015 SRB Technologies, Pembroke Ontario betalight manufacture using waste tritium 2015 US DOE hearings on MOX transport proposed plutonium fuel shipments 1997 Federal hearings on spent nuclear fuel AECL's proposed geologic repository 1990-97 Federal hearings on radioactive tailings proposed Elliot Lake decommissioning 1996 1995

Joint hearings on Grande Baleine critique of H-Q energy demand analysis 1995
BAPE hearings on Gentilly II dry storage of high-level radwaste 1994
Joint hearings on Sask. Uranium Mines radioactive tailings management 1993
Federal hearings on Brinex project uranium hexafluoride refinery 1978, 1980
Federal hearings on Brinex project proposed uranium mine in Labrador 1979

re-analysis of lung cancer risk data

1978

#### - Volunteer Work -

Elliot Lake hearings on radon in homes

World Social Forum (Montreal)	Planning Committee	2016
World Uranium Symposium (Quebec City)	Planning Committee	2015
Green Energy Conference (Montréal)	Executive Director 1989	to 90
Vanier College (Executive Committee 1990)	<b>Board of Directors</b>	1987 to 90
Canadian Peace Alliance	Steering Committee	1987 to 89
Integrated Science Program, Vanier College	Academic Council	1985 to 87
Integrated Science Program, Vanier College	Program coordinator	1985 to 87
Canadian Coalition for Nuclear Responsibility	/ Chairman & President	since 1975
SURVIVAL (international ecology magazine)	English edition editor 1970	to 74

#### **Publications**

#### - Mathematical Publications -

My Encounter with Grothendieck, Mathematical Intelligencer,	2017
Background Study No. 26, A.J. Coleman, G. Edwards and K. Beltzner, final report of Mathematics Study, Science Council of Canada,	1976
Mathematical Sciences in Canada, A.J. Coleman, G. Edwards and K. Beltzner, preliminary report of Mathematics Study, Science Council of Canada,	1975
Mathematics in Today's World, ed. G. Edwards, pub. Science Council of Canada, Proceedings of Three Ottawa Conferences: I. Mathematics & Policy Planning II. Mathematics, Statistics & the Environment III. Mathematics & Technology (limited editions; copies deposited in all Canadian university libraries)	1974
"Beverton-Holt Model of a Commercial Fishery: Optimal Dynamics", C. Clark, G. Edwards & R. Friedlaender, <i>Journal of the Fisheries Research Board</i>	1974
"Primitive Elements in Symmetric Algebras," Canadian Journal of Mathematics,	1974
Lie Algebras of Infinitesimal Group Schemes, Queen's University, Ph.D. thesis,	1972

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An Introduction to Lie Algebras, Gordon Edwards & Richard Pollack,

Queen's Papers in Pure and Applied Mathematics (Queen's University Press), 1970

- Non	n-Mathematical Publications -	
	Health Implications of Fuel Pelleting in Peterborough, CELA publication	2020
	Regulating Liabilities at Chalk River – a Nuclear Sacrifice Area	2016
	Canada and the Bomb, Past and Future - Canadian Dimension Magazine	2014
	"Radiation is Invisible",	
	A Critique of the Strateco EIS for the Matoush U Project:	2010
	"Following the Path Backward", A Critique of the NWMO Report that was	
	entitled "Choosing a Way Forward", CCNR publication	2005
	<u>Uranium: A Discussion Guide</u> , National Film Board of Canada,	1991
	"Nuclear Wastes: Past and Present", Challenges to Waste Management:	
	Proceedings of the Nuclear Waste Issues Conference (Winnipeg),	
1987		
	"Canada's Nuclear Trade," in Roots of Peace, pub. Between the Lines (Montrea	l),
	ed. E. Schragge, R. Babin, J-G. Vaillancourt,	1986
	"Fuelling the Arms Race", Ploughshares Monitor, vol. VI no. 2,	1985
	L'Énergie: un choix à faire, par G. Edwards et al. du Regroupement pour la surv	veillance
	du nucléaire, presenté à la Commission permanente de l'énergie et de	5
	ressources, de l'Assemblée Nationale du Quebec; publication du RSN,	Feb 1983
	"The Myth of the Peaceful Atom", in Canada and the Nuclear Arms Race,	
	ed. Ernie Regehr & Simon Rosenblum, Lorimer & Sons (Toronto),	1983
	Canada's Nuclear Dilemma, in Energy: Ethics, Power and Policy,	
	Journal of Business Administration, vol. 13, nos. 1 & 2,	1982
	Risks Associated with the Purchase of Electricity from Point Lepreau,	
	presented to Prince Edward Island Electric Power Inquiry, CCNR pub.,	June 1982
	<u>Nuclear Wastes: What, Me Worry?</u> Again? <i>Update</i> , presented to the House	
	of Commons Standing Committee on Environment and Forestry,	February 198
	Estimating Lung Cancers, summary of evidence presented to Elliot Lake	
	Environmental Assessment Board on radon standards, CCNR publicatio	n, 1978
	– expanded and updated version –	1985
	Cost Disadvantages of Expanding the Nuclear Power Industry,	
	Conference Board of Canada, Canadian Business Review, v. 9, n. 1,	Spring 1982
	Nuclear Safety: Two Critical Papers, CCNR publication,	1980
	Findings on Uranium Tailings & Nuclear Waste Disposal, ed. G. Edwards,	March 1980
	Nuclear Wastes: An Overview, transcript of testimony to the Select Committee	
	on Ontario Hydro Affairs, CCNR publication,	1979
	Nuclear Safety in a Canadian Setting, CCNR publication,	
	presented to the Select Committee on Ontario Hydro Affairs, Dece	ember 1978
	Summary Argument to the Ontario Royal Commission on Electric Power Plant	ning,
	by G. Edwards and R. Torrie, CCNR publication,	April 1978
	(I. <u>The Nuclear Debate: A Metaphorical Framework</u> ; II. CANDU Safety.)	
	Nuclear Wastes: What, Me Worry? presented to the House of Commons Sta	
	·	bruary 1978
	L'Energie, par G. Edwards et al. du Regroupement pour la surveillance du nucl	<i>ėaire</i>

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presenté à la Commission permanente de l'énergie et des ressourc	es.
Assemblée Nationale du Quebec, publication du RSN,	February 1977
Time to Stop and Think, brief to Prime Minister Trudeau, CCNR publication	ı, March 1977
Non-Nuclear Futures for Ontario, Edwards, Hénaut & Rosenberg, CCNR	
Science and Life, an anthology of teaching guides for HS Chemistry teacher	ers,
ed. G. Edwards, pub. Concordia University,	1976
Nuclear Power: A New Dimension in Politics, Alternatives, Trent Univ., S	ummer 1976
Nuclear power: Fact and Fantasy, includes speeches by	
A. Bateman ( Manitoba Hydro ), G. Edwards ( CCNR ),	
R. Hart ( AECL ), and A. Lansdowne ( MEC ),	
published by the Manitoba Environmental Council,	1975
SURVIVAL international ecology action magazine (nos. 1-14), ed. G. Edward	ls, 1970 to 74
Various articles on energy & nuclear power in the Globe and Mail, Toronto	Star,
Montreal Gazette, Le Devoir, and La Presse., some of them co-auth	ored.
r Invited Addresses	

### **Major Invited Addresses**

Thinking Things Through to the End, Environment North (Thunder Bay ON)	2023
Nuclear Waste: The Questions Multiply, We the Nuclear-Free North (Dryden ON)	2023
SMRs: Spending Money Recklessly, Alliance to Halt Fermi-3 (Detroit MI)	2023
Nuclear Fuel Waste, NWMO Citizens Liaison Committee (Manitouwadge ON)	2018
Nuclear Fuel Waste, NWMO Citizens Liaison Committee (Hornepayne ON)	2018
Radioactive Wastes and First Nations, UN Permanent Forum on Indigenous Issues	2018
Keynote Address, Regional Forum on Reactor Decommissioning (Garrison NY	2017
The Age of Nuclear Waste: From Fukushima to Indian Point (Westchester NY)	2017
The Health Dangers of Uranium Mining, Greenland Symposium (Narsaq GL)	2016
Nuclear Power, Nuclear Weapons, and Uranium, World Social Forum (Montreal QC)	2016
Uranium, Radioactivity and Ionizing Radiation, IPPNW (Johannesburg, SA)	2015
Nuclear Fuel Waste: Questions and Challenges, CLC-NWMO (White River, Ontario)	2015
Uranium: The Canadian Story, World Uranium Symposium (Quebec City)	2015
Nuclear Fuel Waste: History and Prospects, CLC-NWMO (Schreiber, Ontario)	2015
Uranium – its Uses and Dangers, Association of First Nations of Quebec & Labrado	or
Seminar re. Environmental Assessment Hearings (Wendake Quebec)	2014
Nuclear Waste Governance in Canada, 19th Annual Meeting of the REFORM Group,	
a week-long seminar at Leopoldskron, (Salzburg Austria)	2014
Lessons From Fukushima, Manitoba Environmental Industries Assoc. (Winnipeg)	2014
In a Nuclear Weapons-Free World, Can We Still Have Nuclear Power?,	
Science-for-Peace/Pugwash Annual Lecture (Toronto, Ontario)	2013
Nuclear Labyrinth on the Great Lakes, keynote address,	
Nuclear Power and the Great Lakes Conference (Huron, Ohio),	2012
Nuclear Power - Challenges and Choices, keynote address, Fukushima Anniversary	1
"Nuclear Labyrinth in Asia" conference (Hong Kong),	2012
Will Saskatchewan Host Ontario's Nuclear Waste?, (Pinehouse, Saskatchewan)	2011
Healing the Planet, keynote address,	
Physicians for Global Survival Conference (Montreal),	2009

	From Uranium to Isotopes to Bombs, keynote address,		
	Physicians for Global Survival Conference (Ottawa),		2009
	Prescription for Survival, keynote address,		
	Physicians for Global Survival Conference (Halifax),	2008	
	Nuclear Power: Hope or Hoax?, keynote address,	2000	
	University of Alberta (Fredericton), <i>Uranium, the Shape-Shifter,</i> keynote address (with Robert Del Tredici),	2008	
	"Nuclear Free Future" Conference (Salzburg, Austria),		2007
	Radioactive Legacy of the Nuclear Age, keynote address (with Robert Del T	redici).	
	"Coping with Nuclear Waste" Conference (Stockholm, Sweden),	, ,	2007
	Global Importance of Uranium, keynote address,		
	World Uranium Hearings (Salzburg, Austria),		1992
	The Secret Life of Uranium, International Uranium Congress (Saskatoon),		1987
	Legal Issues in Nuclear Waste Management, McGill University Law School,		1986
	Nuclear Wastes & Nuclear Weapons, Globescope 86, Tufts University (Bost		1986
	Nuclear Wastes in Canada, Past and Future, Nuclear Waste Conference (Win		), 1986
	Nuclear Waste Management: Problems and Policy Options, member of the Technical Panel, Vermont Public Interest Research Group (Montpelier VT) 1985		
	Issues of CANDU Safety, Dalhousie University Law School (Halifax NS),		1982
1981	Legal Aspects of Nuclear Power, Canadian Bar Association (Saskatoon SK),		
	Nuclear Debate, sponsored by the Canadian Institute of Public Affairs, Supreme Court Justice Howard Krever presiding,	Apı	ril 1978
	Nuclear Wastes, SCITEC seminar for MPs and Senators (Parliament Hill),		1977
	Nuclear Issues, Whiteshell Nuclear Research Establishment (AECL, Pinawa, I Energy Days, televised live from the Prince Edward Island Legislature,	МВ),	1976 1976
	Energy and People conference: Keynote Speaker, introduced by Robert Star	nfield,	1975
- Tele	vision Features - (excluding news coverage)		
	Nuclear Courtship, 2-part documentary on high-level radwaste, APTN (50 i	min),	2020
	The Fukushima Nuclear Crisis, a three-week series of 23 interviews on the Fukushima disaster featuring Gordon Edwards, CTV (90 min),		2011
	The Nature of Things, special program on nuclear power featuring G Edwards and B Hawthorne (president of Bruce Power) CBC (60 m	ıin),	2010
	The Nature of Things, special program on nuclear power and plutonium with G Edwards and A Mayman (ex-VP of AECL) CBC (60 min),		1998
	Speaking Out, panel discussion with GE, Ontario Energy Minister, and VP of Canadian Nuclear Association, TV Ontario (90 min),		1986
	Energy: Search for an Answer, one of a seven part educational series, produced by TV Ontario and Energy, Mines & Resources (30 min),		1984

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	TV shows (30 min each), University of the Air (CTV),  I. Ancient Discoveries; II. Curved Space; III. Geometry of Shadows;  IV. Higher Dimensions; V. Topology: the "Rubber Sheet" Geometry. 1979	
	Quarterly Report on Energy, hosted by Barbara Frum, featuring G. Edwards et al, CBC TV (60 m),	ne 1979
	The Watson Report, hosted by Patrick Watson, CBC TV (60 m), featuring G. Edwards et al. on nuclear safety, Ma	ay 1978
	The Schulman File, hosted by Morton Schulman, City TV (60 m), featuring G. Edwards et al on nuclear issues,	1978
	Cross-Examination of AECL Nuclear Experts, video-taped at the Ontario Royal Commission on Electric Power Planning, CCNR (50 m),	1977
	A Power Trip, G. Edwards et al on renewable energy, CBC Ideas (radio, 60 m),	1977
	The Great Debate, hosted by Pierre Berton, featuring Gordon Edwards vs. Edward Teller, Global TV (50 m.), October	er 1974
	Nuclear Debate, hosted by the B.C. Environmental Council, broadcast on cable TV from the Vancouver Planetarium (120 m.),	ry 1973
- Audi	io-Visual Presentations -	
	Nuclear Fuel Waste: Questions & Challenges [57m] Citizen's Liaison (Schreiber ON	N) 2015
	How I Became a Nuclear Skeptic [48m] The Green Majority (Toronto ON)	2015
	Nuclear Power, Hope or Hoax? [90m] University of Alberta, Edmonton AB	2008
2007	The Radioactive Legacy of the Nuclear Age [60m] Stockholm Sweden	
	Port Hope – Plans to Process Enriched Uranium [43m], (Port Hope ON)	2004
	The SLOWPOKE District Heating Reactor [2h] U of Saskatchewan (Saskatoon SK)	1989