Curriculum Vitae - Gordon Edwards

March 2024

Personal:	1 0 1			
Born: July 18, 1940, Lans	aowne, Onta	r10	Citizenship: Canadi	an
Education:	pl. i		Mathamatica	1072
Queen's University	Ph.I		Mathematics	1972
University of Chicago	M.A		English Literature	1964
University of Chicago	M.S		Mathematics	1962
University of Toronto - Academic Awards -	B.Sc	<i>2</i> •	Mathematics & Physi	cs 1961
	1			
University of British Co		Fallozualais		1972
National Research Council Queen's University :	Posi-Doctoral	renowsnip		1972
Queen S University. Queen Elizabeth II Doctor	al Fallozochin			1971
Canada Council Doctoral I				1971
National Research Council		znshin		1969
University of Chicago:	Boctoriii 1 cito	womp,		1707
U. of Chicago Teaching Fel	llowship			1962-63
Woodrow Wilson Fellowsh	ip,			1961
University of Toronto :	1.			
Gold Medal in Mathematic	cs and Physics,			1961
Arthur W. Anglin Memor				1960
First Agnes Kelly Award i	n Math & Phys	ics		1957
- Non-Academic Awards -				
Peace Quest – named one of		n Peacem	akers	2017
YMCA Peacemaker Medall				2014
The Rosalie Bertell Lifetime				2007
The Nuclear Free Future A White Owl Conservation A		i Kock, Ar	rizona	2006 1985
White Owl Conservation A	waru			1963
Teaching Experience				
- College and Undergraduate U	Jniversity -			
Vanier College		∕Iathemati	ics and Science	1974 to 2010
Concordia University	Environme			1974 to 77
U. of British Columbia	Calculus ar	nd Vector (Geometry,	1972/73
Queen's University	Differential	Equation	s, Linear Algebra	1969 to 72
University of W. Ontario			lculus, & Shakespeare	1962 to 64
University of Chicago			Logic, Calculus	1962 to 64
University of Toronto	Differential	Equation	s for Engineers	1960/61
- Honorary Appointments -				
Concordia University,	Adjunct Pro	ofessor of	Science & Human Affair	s 1976-79
•	riajanet i n	J100001 01	Science & Frankan / Mail	5 171017
- Post-Graduate Courses -	_			
Concordia University	Chemistry			1976
McGill University	Biology in S	society	(Masters level course)	1977

Work Experience (non-teaching)

Ι' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
- Appointments -		
Science Council of Canada	Nation-wide study of Math in Canada	1973/74
Fire Marshal of Ontario		1958 to 61
- Consulting Work -		
Keboawek First Nation (Algonquin)	Proposed tritium facility at Chalk River Labs	2023
Can. Nuclear Safety Commission	Darlington boiling water reactor (BWRX-300)	
Port Hope Health Committee	Radioactive decontamination of community	2022
Port Hope Health Committee	Cameco nuclear fuel manufacturing licence	2022
Can. Environmental Law Assoc.	contaminated home construction in Elliot Lak	
Passamaquoddy First Nation	safety & waste issues re Point Lepreau reactor	
Can. Environmental Law Assoc.	health issues re uranium fuel fabrication	2020
Citizens of Renfrew County	radioactive liabilities at Chalk River Labs	2019
Ontario Clean Air Alliance	nuclear waste management, Pickering NGS	2017
Citizens of Renfrew County	legacy nuclear waste at Chalk River Labs	2016
Citizens of Renfrew County	licence extension hearings, Chalk River Labs	2010
Mouvement vert Mauricie	3 critical analyses, Darlington New Build	2011
Mining Watch Canada	critique of EIS for Matoush Uranium project	2010
Serpent River First Nation	workshop: health hazards of uranium mining	2010
		2009
Conférence régionale des élus de la Côte-Nord	medical aspects of radionuclides and the impacts of uranium exploration and mining	2009
		2009
Nunavut Planning Commission,	issues on uranium exploration and mining	2006 & 07
Congress of Aboriginal Peoples,	O	
Inuit Tapiriit Kanatami (4 times)	0	2006 & 07 1998
Chippewas of Nawash First Nation		
Ontario Siting Task Force,		1990 & 93
Canadian Environmental	nuclear power, uranium & radioactivity,	1000 1 00
Advisory Council (CEAC),		1990 to 92
National Film Board of Canada,	"Uranium"~ a documentary film (60 m)	1990
Energy Mines & Resources,	"Energy Options" ~ public consultation proc	ess 1987
U.S. NRC Safety & Licensing Board	deterioration at the Turkey Point reactor (Mic	
Auditor General of Canada,	comprehensive audit - Atomic Energy Control I	
National Film Board of Canada,	"Speaking Our Peace" ~ documentary film (3	30m) 1985
National Film Board of Canada,	energy policy & uranium mining 1978, 84	l-85 <i>,</i> 88-90
C.T.V. television network,	depleted uranium and nuclear weapons	1985
T.V. Ontario (Toronto),	nuclear safety issues in Ontario [doc series]	1984
Prince Edward Island	externalities of the Point LePreau nuclear	
Electric Power Inquiry,	power plant in New Brunswick	1982
Select Committee on Ontario	reactor meltdowns, uranium processing issue	s,
Hydro Affairs (Legislature)	and radioactive waste management options	1978/79
Ontario Royal Commission	reactor safety, radioactive waste, reprocessing	
on Electric Power Planning,	and cross-examination of experts (5 months	
Consumer & Corporate Affairs,	nuclear economics in Canada	1977/78
United Steelworkers of America,	radon exposure standards for new homes	1977/78
Science Council of Canada,		1977 & 78
C.B.C. "The Nature of Things",	long-term health effects of atomic radiation,	1977
Cluff Lake Board of Inquiry on	issues related to the uranium fuel chain	=
Uranium Mining (Saskatchewan),	and cross-examination of experts (5 weeks)	1977
2 (o work out of with))	in the state of th	

- Invited Testimony to Legislative Committees -

House of Commons Standing Committe	es:	
Environment Committee,	on radioactive waste governance in Canada	2022
Natural Resources Committee,	on the status of Canada's nuclear industry	2016
Natural Resources Committee,	on radioactive steam generator transport	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,	
1	sur les options énergétiques	1983
Legislative Assembly of the Northwest T		
0		80/81
Energy Committee of the New Brunswic	0	,
6)	on CANDU reactor safety analysis	1979
House of Commons Standing Committe	e on National Resources & Public Works,	
Troube of Commons startaing Commune	on the management of irradiated nuclear fuel	1978
Commission permanente de l'énergie et	des ressources de l'Assemblée nationale,	
commission permanente de l'energie et	sur l'énergie nucléaire au Québec	1977
Prince Edward Island Legislature,	on nuclear power issues in the Maritimes	1974
	on meetin power tookeo in the 14th times	1771
- Expert Sworn Testimony -		•
US Federal court, Lansing Michigan	transport of plutonium as reactor fuel	2000
Federal Court, Ottawa	dry storage of irradiated nuclear fuel	1999
DFAIT, Gov't of Canada, Ottawa	"expert group" on nuclear weapons policy	1999
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		79/80
Royal Commission on Electric Power	5 5	77/78
Cluff Lake Inquiry on Uranium Mining	weapons proliferation, health, reactor safety	1977
- Testimony at Environmental Assessment	Hearings -	
Quebec BAPE hearings on uranium	extending Quebec's uranium moratorium	2014
Deep Geologic Repository: Kincardine	critique of OPG EIS, for the LILW DGR 20	13/14
Darlington New Build - CEAA hearings		2011
Joint EA hearings: Matoush U project	critique of Strateco EIS, for Matoush project	
Federal hearings: Midwest U project	critique of Midwest EIS, uranium mine	2007
Quebec BAPE hearings on Gentilly-2	Expansion of Radwaste Management Area	2004
Federal hearings on BRUCE spent fuel	dry storage of high-level radwaste	1998
US DOE hearings on MOX transport	proposed plutonium fuel shipments	1997
Seaborn hearings on used nuclear fuel	AECL's proposed geologic repository (HLW) 1	
Federal hearings on radioactive tailings	proposed Elliot Lake decommissioning	1996
Joint hearings on <i>Grande Baleine</i>	critique of H-Q energy demand analysis	1995
BAPE hearings on <i>Gentilly-2</i>	dry storage of high-level radwaste	1994
Joint hearings on Sask. Uranium Mines	uranium mill tailings management	1993
Federal hearings on Eldorado project	, , ,	, 1980
Federal hearings on Brinex project	proposed uranium mine in Labrador	1979
Elliot Lake hearings on radon in homes	re-analysis of lung cancer risk data	1978

- Interventions at Licensing Hearings -	
Boiling Water Reactor (Darlington)	construction & env. assessment exemption 202
Point Lepreau NGS (New Brunswick)	extending nuclear plant operating licence 202
CNL Radioactive cleanup (Port Hope)	licencing decontamination for another decade 202
Cameco Nuclear Fuel Fabrication Plant	extending Port Hope licence for ten years 202
Darlington, Bruce and Pickering NPPs	extending operations & reactor core rebuild 201
SRB Technologies, Pembroke Ontario	betalight manufacture using waste tritium 201
US DOE hearings on MOX transport	proposed plutonium fuel shipments 199
Federal hearings on spent nuclear fuel	AECL's proposed geologic repository 1990-9
Federal hearings on radioactive tailings	proposed Elliot Lake decommissioning 199
Joint hearings on Grande Baleine	critique of H-Q energy demand analysis 199
BAPE hearings on Gentilly II	dry storage of high-level radwaste 199
Joint hearings on Sask. Uranium Mines	radioactive tailings management 199
Federal hearings on Eldorado project	uranium hexafluoride refinery 1978, 198
Federal hearings on Brinex project	proposed uranium mine in Labrador 197
Elliot Lake hearings on radon in homes	re-analysis of lung cancer risk data 197
- Volunteer Work -	
World Social Forum (Montreal)	Planning Committee 203
World Uranium Symposium (Quebec Ci	O
Green Energy Conference (Montréal)	Executive Director 1989 to 9
Vanier College (Executive Committee 19	
Canadian Peace Alliance	Steering Committee 1987 to 8
Integrated Science Program, Vanier Colle	
Integrated Science Program, Vanier Colle	
Canadian Coalition for Nuclear Responsi	
SURVIVAL (international ecology magazi	<i>3</i>
	-, 8
Publications	
- Mathematical Publications -	
My Encounter with Grothendieck, Mathema	atical Intelligencer, 201
Background Study No. 26, A.J. Coleman, C	_
final report of Mathematics Study, Sci	
Mathematical Sciences in Canada, A.J. Col	eman, G. Edwards and K. Beltzner,
preliminary report of Mathematics Stud	
Mathematics in Today's World, ed. G. Edwa	ards, pub. Science Council of Canada,
	es: I. Mathematics & Policy Planning
	ironment III. Mathematics & Technology
(limited editions; copies deposited i	n all Canadian university libraries) 197
"Beverton-Holt Model of a Commercial 1	Fishery: Ontimal Dynamics"
"Primitive Elements in Symmetric Algeb	
Lie Algebras of Infinitesimal Group Schemes	·
An Introduction to Lie Algebras, Gordon E	
Queen's Papers in Pure and Applied Ma	athematics (Queen's University Press), 197

- Non-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 (Montre	al),
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 surve	
du nucléaire, presenté à la Commission permanente de l'énergie et des	
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
<u>Canada's Nuclear Dilemma</u> , in Energy: Ethics, Power and Policy,	1700
Journal of Business Administration, vol. 13, nos. 1 & 2,	1982
Risks Associated with the Purchase of Electricity from Point Lepreau,	1702
presented to <i>Prince Edward Island Electric Power Inquiry</i> , CCNR pub.,	June 1982
Nuclear Wastes: What, Me Worry? Again? Update, presented to the House	of
Commons Standing Committee on Environment and Forestry, February	
Estimating Lung Cancers, summary of evidence presented to Elliot Lake	1707
Environmental Assessment Board on radon standards, CCNR publication	ation, 1978
– expanded and updated version –	1985
Cost Disadvantages of Expanding the Nuclear Power Industry,	1700
	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,	17/7
	cember 1978
Summary Argument to the Ontario Royal Commission on Electric Power Planning	
by G. Edwards and R. Torrie, CCNR publication,	April 1978
(I. <u>The Nuclear Debate: A Metaphorical Framework</u> ; II. CANDU Safety.)	April 1770
Nuclear Wastes: What, Me Worry? presented to the House of Commons Star	nding
• • • • • • • • • • • • • • • • • • •	February 1978
L'Energie, par G. Edwards et al. du Regroupement pour la surveillance du nucléi	,
presenté à la Commission permanente de l'énergie et des ressources,	
	ebruary 1977
Time to Stop and Think, brief to Prime Minister Trudeau, CCNR publication,	,
	otember 1977
Science and Life, an anthology of teaching guides for HS Chemistry teachers,	
ed. G. Edwards, pub. Concordia University,	1976
<u> </u>	· · ·
	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
pupusnea ny the ivianitana Environmentai Colincii	19/7

SURVIVAL international ecology action magazine (nos. 1-14), ed. G. Edwards, 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-authored with others.

Major Invited Addresses

Nuclear Waste: The Questions Multiply, We the Nuclear-Free North (Dryden ON)	2023
SMRs: Spending Money Recklessly, <i>Alliance to Halt Fermi-3</i> (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
<i>Uranium – its Uses and Dangers, Association of First Nations of Quebec & Labrador</i>	
	2014
Nuclear Waste Governance in Canada, 19th Annual Meeting of the REFORM Group,	
	2014
, · · · · · · · · · · · · · · · · · · ·	2014
In a Nuclear Weapons-Free World, Can We Still Have Nuclear Power?,	
, 0	2013
Nuclear Labyrinth on the Great Lakes, keynote address,	
, , , , , , , , , , , , , , , , , , , ,	2012
Nuclear Power – Challenges and Choices, keynote address, Fukushima Anniversary	
	2012
	2011
Healing the Planet, keynote address,	
· · · · · · · · · · · · · · · · · · ·	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,	
University of Alberta (Fredericton),	2008
<i>Uranium, the Shape-Shifter,</i> keynote address (with Robert Del Tredici),	
"Nuclear Free Future" Conference (Salzburg, Austria),	2007
Radioactive Legacy of the Nuclear Age, keynote address (with Robert Del Tredici),	
"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
	1986
	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
Legal Aspects of Nuclear Power, Canadian Bar Association (Saskatoon SK),	1981

Gordon Edwards C.V. – 2024

Nuclear Debate, sponsored by the Canadian Institute of Public Affairs, Supreme Court Justice Howard Krever presiding,	April 1978
Nuclear Wastes, SCITEC seminar for MPs and Senators (Parliament Hill),	1977
Nuclear Issues, Whiteshell Nuclear Research Establishment (AECL, Pinawa, M Energy Days, televised live from the Prince Edward Island Legislature,	ИВ), 1976 1976
Energy and People conference: Keynote Speaker, introduced by Robert Stanfiel	ld, 1975
- Television Features - (excluding news coverage)	
Nuclear Courtship, 2-part documentary on high-level radwaste, APTN (50 mir	n), 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 mi	in), 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
The Evolution of Geometrical Thought, by G. Edwards, a series of five 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),	June 1979
The Watson Report, hosted by Patrick Watson, CBC TV (60 m), featuring G. Edwards et al on nuclear safety,	May 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.), O	ctober 1974
Nuclear Debate, hosted by the B.C. Environmental Council and broadcast on cable TV from the Vancouver Planetarium (120 m.),	oruary 1973
- Audio-Visual Presentations -	
Nuclear Fuel Waste: Questions & Challenges [57m] Citizen's Liaison (Schreiber G	ON) 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
The Radioactive Legacy of the Nuclear Age [60m] Stockholm Sweden	2007
Port Hope – Plans to Process Enriched Uranium [43m], (Port Hope ON)	2004
The SLOWPOKE District Heating Reactor [2h] U of Saskatchewan (Saskatoon S	SK) 1989