

**Water in Canada and the World:
Rising tensions in the 21st century: issues and solutions**
Canada Museum of Science and Technology, Ottawa
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Speaker Biographies

Adele M. Hurley



Director: Program on Water Issues
Munk Centre for International Studies,
University of Toronto
(416) 946-8919
hurleyut@istar.ca

In 1980, during the early days of the Reagan administration, Adele Hurley co-founded the Canadian Coalition on Acid Rain. Ms. Hurley moved to Washington DC, established an office and, for the next eight years, worked on a successful campaign that brought about amendments to the US Clean Air Act and regulations that reduced pollutants from large Canadian emitters.

Upon her return to Canada, Ms. Hurley established her company, which continues to specialize in North American air and water issues. In the early 1990s, she was appointed to the Board of Directors of Ontario Hydro, where she served as the first Chair of the Environment Committee of what was then the largest utility in North America.

In 1995, she was appointed by the Prime Minister's Office to serve as Canadian Co-Chair of the International Joint Commission, which oversees Canada/US Boundary water issues according to the Boundary Waters Treaty of 1909. She has served as a member of the Canadian Federal Government's International Trade Advisory Committee -Task Force on Environment and Trade Policy. She has won numerous awards for her work including the Conservation Council of Ontario's Lieutenant Governor's Conservation Award.

In 2001, Adele Hurley became the Director of the Program on Water Issues at the Munk Centre for International Studies at the University of Toronto.

Dr. David W Schindler



Department of Biology

University of Alberta

Edmonton

(780) 492-1291

d.schindler@ualberta.ca

David Schindler is the holder of the Killam Memorial Chair and Professor of Ecology at the University of Alberta, Edmonton. From 1968 to 1989, he founded and directed the Experimental Lakes Project of the Canadian Department of Fisheries and Oceans near Kenora, Ontario, conducting interdisciplinary research on the effects of eutrophication, acid rain, radioactive elements and climate change on boreal ecosystems. His work has been widely used in formulating ecologically sound management policy in Canada, the USA and in Europe.

His current research interests include the study of fisheries management in lakes, effects of climate change on lakes and rivers, eutrophication of aquatic ecosystems, and cumulative effects of human activities on freshwaters.

Schindler has won several international prizes for his research, including the Naumann-Thienemann Medal of the International Limnological Society (1989), the first Stockholm Water Prize (1991), the Volvo Environment Prize (1998) and the Tyler Environment Prize (2006). In 2001 he received Canada's highest honor for research in science and engineering, the NSERC Gerhard Herzberg Gold Medal. He is a member of the Royal Society of Canada, the Royal Society of London, the Royal Swedish Academy of Engineering Sciences, the International Water Academy, and the U.S. National Academy of Sciences. He holds ten honorary doctorates from Canadian and US Universities.

Andrew Nikiforuk



Independent Journalist, Calgary

(403) 270-2995

andrew@andrewnikiforuk.com or

<http://www.andrewnikiforuk.com/>

For the last two decades Andrew Nikiforuk has written about education, economics and the environment for a variety of Canadian publications, including Saturday Night, Maclean's, Canadian Business, Report on Business, Chatelaine, Georgia Straight, Equinox and Harrowsmith..Prior to becoming a newspaper reporter and magazine writer in 1984, he taught learning disabled children how to read and write in Toronto and Winnipeg. His working experiences with immigrant and inner city children gave his controversial education column for the Globe and Mail (1991-94) both edge and clarity. He now writes about conservation, business and education issues for a variety of publications.

He recently investigated the social and ecological impacts of intensive livestock industries for the Calgary Herald (1997-1998) and wrote a position paper on water diversion in the Great Lakes for the University of Toronto's Munk Centre in 2004. He also edits a newsletter for land owners called The Land Advocate (www.landadvocate.org).

Nikiforuk's journalism has garnered national acclaim and controversy. Articles focusing on the public and private abuse of national resources have won seven National Magazine Awards since 1989 and top honors for investigative writing from the Association of Canadian Journalists. In 1991 the Toronto Star awarded him an Atkinson Fellowship In Public Policy to study AIDS and the failure of public health policy--an area he continues to report on.

His first non-fiction book, *The Fourth Horseman: A Short History of Plagues, Scourges and Emerging Viruses* (Penguin 1991/1996) garnered critical reviews in England, Canada and the United States. A revised and updated version of this ecological history has gained "cult" status on the Internet. His second book, *School's Out: The Catastrophe in Public Education and What Parents Can Do About It* (Macfarlane, Walter and Ross), was a national bestseller and short listed for the Gordon Montador Award--a prize for good nonfiction writing on issues of key social interest. A practical and controversial handbook about public schooling: *If Learning Is So Natural, Why Am I Going to School: A Parent's Guide* (Penguin), earned the author a distinct reputation: "the Ralph Nader of education." His most recent book, *Saboteurs: Wiebo Ludwig's War Against Big Oil*, was published by Macfarlane Walter and Ross to widespread critical acclaim. It won the Governor General's Award for Non-Fiction in 2002.

Nikiforuk and his wife and three sons, Aidan, Keegan and Torin, live in Calgary, Alberta. Whether speaking or writing about melting glaciers, educational shams, peak oil, or the destruction of the boreal forest, Nikiforuk has earned a reputation as an honest and provocative voice in Canadian journalism.

Steve Hrudey



School of Public Health
University of Alberta
10-102 Clinical Sciences Building
Edmonton, Alberta T6G 2G3
(780) 492-6807
steve.hrudey@ualberta.ca
http://www.ualberta.ca/%7Eenvrisk/faculty_Hrudey.htm

Dr. Hrudey is Professor of Environmental Health Sciences, School of Public Health, University of Alberta. He served on the Research Advisory Panel to Commissioner Justice O'Connor for the Walkerton Inquiry and he has served as a cabinet-appointed to the Alberta Environmental Appeal Board since September 1996. He was appointed the first non-lawyer to be Chair of this quasi-judicial Board in July 2005.

Dr. Hrudey was an architect of the catchment-to-consumer risk management approach of the 2004 Australian Drinking Water Guidelines, was the founding Leader of the Protecting Public Health theme for the Canadian Water Network and now serves on the Science Advisory Council to the National Collaborating Centres of the Public Health Agency of Canada. He has served on several other national and international expert panels and was awarded the 2006 Distinguished Speaker for the National Water Research Institute and the 2006 TD / Canada Trust Walter Bean Visiting Professorship in Environment at the University of Waterloo.

Throughout his career, he has been active in interdisciplinary research involving the public, regulatory agencies, the private sector and the research granting councils. He has supervised over 60 environmental graduate students from a wide variety of disciplines ranging from anthropology, sociology, philosophy and law to biology, chemistry, engineering, public health and medicine. Prof. Hrudey's latest book, Safe Drinking Water – Lessons from Recent Outbreaks in Affluent Nations was published by International Water Association Publishing of London in June 2004.

Richard Carignan



Biological Sciences,
Université de Montreal
(514) 343-7239

Richard.Carignan@montreal.ca

Axes de recherche:

- I- Biogéochimie aquatique du carbone, de l'azote, du phosphore et des métaux traces...
- II- Relations entre la qualité des eaux et la topographie des bassins versants.
- III- Métabolisme autotrophes et hétérotrophes des lacs et des rivières.
- IV- Echanges gazeux à l'interface eau-air.
- V- Impacts des feux et des coupes forestières sur la qualité des eaux en forêt boréale.
- VI- Ecologie des plaines inondables tropicales.

Programme de recherche: Mes programmes de recherche portent sur des aspects fondamentaux et appliqués de la limnologie physique, chimique et biologique. Je m'intéresse particulièrement au fonctionnement des écosystèmes aquatiques tempérés et tropicaux. Certains projets portent sur le cycle du carbone, de l'azote, du phosphore et du soufre dans les lacs du Bouclier canadien ainsi que dans les plaines inondables des grandes rivières de l'Argentine et du Brésil. D'autres projets portent sur l'importance relative de la production primaire et de la respiration dans les lacs et les rivières. Récemment, mon équipe a entrepris un important programme de recherche visant, dans une perspective de gestion durable de la forêt à quantifier les impacts des feux de forêt et des coupes forestières sur la qualité des eaux dans 40 lacs du Québec; ces projets portent spécialement sur la perte d'éléments nutritifs et de contaminants (mercure) de la forêt vers les ruisseaux et les lacs. Enfin, d'autres activités de recherche, effectuées en collaboration avec Environnement Canada et le Centre Saint-Laurent, s'intéressent à la productivité biologique et à la contamination du fleuve Saint-Laurent.

Derek Muir



Aquatic Ecosystem Protection Research Branch
Environment Canada
Burlington, Ontario
(905) 319-6921
Derek.Muir@ec.gc.ca

Derek Muir is a specialist in the areas of environmental chemistry of persistent organic chemicals, environmental analytical chemistry, and bioaccumulation/biomagnification

His current research activities include: Effects of food webs and lake trophic status on bioaccumulation of persistent organic pollutants (POPs) and metals (e.g., mercury) in fish. The latitudinal distribution of POPs and metals in lake sediments. Analysis and environmental levels of candidate POPs (fluorinated organics, chlorinated paraffins, brominated diphenyl ethers, and other similar chemicals). Use of enantiomers (optical isomers) to study fate and pathways of POPs. Bioaccumulation and effects of contaminants in marine mammals. Assessments of spatial and temporal trends of contaminants in the Canadian Arctic for Indian and Northern Affairs Canada and in the circumpolar Arctic for the Arctic Monitoring and Assessment Programme (AMAP)

Dr. Muir has received the Professional Institute of the Public Service of Canada 2005 Gold Medal for Outstanding Career Achievement, the Royal Society of Canada's Miroslaw Romanowski Medal for 2004, the Society of Canadian Limnologists. Rigler Lecture Award, 2003, which is an annual award given to a leading Canadian scientist working in the field of limnology. SETAC Founder's Award - the highest scientific award of the Society of Environment Toxicology & Chemistry, November 2000.

He has also received the Head of the Public Service Award, 2001. Negotiating Team for the Global Convention on Persistent Organic Pollutants. Shared with 28 other Federal government scientists and managers.



MARK SPROULE-JONES

V.K.Copps Professor of Urban Studies,
McMaster University,
Hamilton, On.L8S 4M4,
Canada
Tel: (905)525-9140-ext23898

Dr Mark Sproule-Jones is the foundation Chair in Urban Studies at McMaster University. The chair was endowed by the City of Hamilton in 1982 in honour of former Mayor Victor K. Copps. He has held the L.G.Pathy Chair in Canadian Studies at Princeton University. His previous appointments include positions at the Universities of British Columbia, Victoria, Auckland, Australian National and Indiana. He holds an economics degree from the London School of Economics and graduate degrees in government from Indiana University.

Dr Sproule-Jones combines his research on governance with practical problem solving for community and governmental bodies. His work on institutional analysis and design led to new governance arrangements for the Fraser River, for Hamilton Harbour, for the Great Lakes, and for solving urban problems in Hamilton and western Lake Ontario. His publications include 7 books, 8 monographs and over 70 research papers.

Sproule-Jones was the Principal Investigator of a 60 person research team from 6 universities investigating Hamilton Harbour, and had led 5 smaller research teams examining the institutional arrangements for water uses and governance in the Great Lakes Basin.. His current doctoral students are conducting comparative research on Canadian and American management of surface and sub-surface water uses.

In November 2005, Sproule-Jones organized a Conference for the Royal Society of Canada at McMaster University on the transboundary governance of water resources. He is working with academics in New York, Michigan and Ontario to extend social science investigations into Great Lakes governance.

Among his accomplishments, he is most proud of his recent selection as Environmentalist of the Year by a coalition of environmental groups in Hamilton, Ontario.

Gordon Young



Coordinator: United Nations World Water Assessment Programme
Division of Water Sciences, UNESCO
Paris

g.young@unesco.org

<http://www.unesco.org/water/wwap/index.shtml>

The World Water Assessment Programme was formed in 2000 to gather information on water that had been compiled over the years by 23 separate United Nations agencies and put it together in a major report. Two and a half years later, Young, who is on leave from Laurier University, and the 20 people who work for him have compiled a 600-page report chronicling the worldwide crisis of fresh water. "Forty percent of the world's population, mostly in big cities and mostly poor, don't have access to toilets and hygiene," Young has said.

Young is no newcomer to water issues and intergovernmental organizations. He is a specialist on the hydrology and glaciology of high mountain areas and global water resource issues, and founded the [Cold Regions Research Centre](#) at Laurier.

He worked for Environment Canada for many years as a research scientist and chief of a liaison division, where he was secretary of the Canadian National Committee on Hydrology, national representative for the International Association of Hydrological Sciences and Canadian delegate to UNESCO's International Hydrological Programme.

Based in Geneva, Young co-ordinated the Dublin conference of the International Conference on Water and the Environment from 1991 to 1992, and he was secretary-general of the International Association of Hydrological Sciences from 1995-2000, when he was tapped for his current job at UNESCO. Along the way, Young has written more than 50 publications, including the 1994 book, *Global Water Resources Issues*, with J.C.I. Dooge and J. C. Rodda.

Karen Bakker



Assistant Prof., Dept. Geography,
University of British Columbia
(604) 822-6702
bakker@geog.ubc.ca
<http://www.geog.ubc.ca/~bakker/>

Karen Bakker is an Associate Professor at the Department of Geography, and Director of the Program on Water Governance at the University of British Columbia's Institute for Resources, Environment and Sustainability.

Her work on water management covers a broad range of topics, including privatization, transboundary water governance, drought vulnerability, demand management, pricing, and access to urban water supply in developing countries. She has acted as a consultant on water management issues to governments, the private sector, and NGOs; clients have included Environment Canada, Natural Resources Canada, the Federation of Canadian Municipalities, CARE, UNESCO, and the United Nations Development Program. Her academic publications include *An Uncooperative Commodity: Privatizing Water in England and Wales* (2004, Oxford University Press). She is the editor of a forthcoming book: *Eau Canada: The Future of Canada's Water*, which will be published by UBC Press in November 2006.

A graduate of McMaster University, she was awarded her doctorate in Geography at Oxford University in 1999, where she studied as a Rhodes Scholar. She has been named one of four Distinguished Scholars in Residence at UBC's Peter Wall Institute for 2007.

Keith Hipel



Department of Systems Design Engineering,
University of Waterloo
Waterloo, Ontario, Canada N2L 3G1
(519) 888-4567, ext. 2830
kwhipel@uwaterloo.ca

Keith W. Hipel is Professor of Systems Design Engineering at the University of Waterloo where he is the Coordinator of the Conflict Analysis Group. His major research interests are the development of conflict resolution, multiple objective decision making and time series analysis techniques from a systems engineering perspective with applications to water resources management, hydrology, environmental engineering, infrastructure renewal and sustainable development. Keith is Fellow of the Royal Society of Canada, Canadian Academy of Engineering, Institute of Electrical and Electronics Engineers, Engineering Institute of Canada, and American Water Resources Association. He is also a recipient of many other awards including the Norbert Wiener Award from the IEEE Systems, Man and Cybernetics Society, and the Canada Council Killam Research Fellowship.

Within the field of water resources, Keith and his research colleagues have employed systems methodologies in an interdisciplinary fashion for tackling a range of challenging problems. For example, they have applied systems tools to the proposed export of water in bulk quantities from Canada in order to procure a better understanding of the problem and guidance for strategic decision making. Specifically, conflict analyses of bulk water disputes in Western Canada (Sun Belt Conflict) and Eastern Canada (Lake Gisborne Controversy) reveal that it is strategically possible that water could be exported in bulk in the future and this, of course, could have severe ecological and political consequences for Canada. If, for instance, water were exported once in large quantities from Lake Gisborne in Newfoundland, water could then be treated as a commodity under the North American Free Trade Agreement (NAFTA) and be exported from anywhere in Canada, including the Great Lakes. The ongoing global dispute over trade versus the environment was also investigated using systems tools for conflict resolution and suggestions for a long term sustainable resolution were put forward.

Conflicts involving First Nations have been investigated using systems techniques for the James Bay project and the Burnt Church fishing disputes. For equitably allocating water among users within a river basin, researchers in the Conflict Analysis Group developed a complex systems optimization model founded upon concepts from cooperative game theory, economics and hydrology, and applied their novel procedure to the South Saskatchewan River Basin and Aral Sea Region. To gain insights into the causes of the Walkerton water crisis, they carried out qualitative and quantitative risk analyses. Finally, the team has completed research in stochastic hydrology and environmental impact assessment.

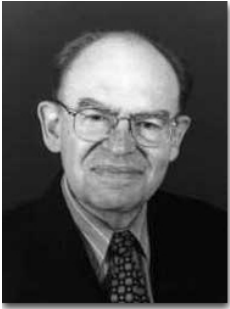
Ralph Pentland



Ralbet Enterprises,
Ottawa
ralbet@cyberus.ca

Ralph Pentland is currently President of Ralbet Enterprises Inc., where he has been active in consulting on a variety of water and environmental policy issues. From 1978 to 1991, he was Director of Water Planning and Management in the Canadian Department of the Environment. In that capacity, he was responsible for overseeing numerous Canada - U.S. and Federal - Provincial agreements and arrangements. Those activities covered a broad range of activities, including river basin planning and implementation, flood damage reduction, water quality management, water level regulation, the management of diversions and consumptive uses, and environmental assessment. He has served as Canadian Co-Chairman on five different International Joint Commission boards and committees, most recently in 2003, and was the prime author of the Federal Water Policy that was tabled in Parliament in 1987. Since 1991, he has worked on water and environmental policy issues in a number of countries, including Canada, the United States, Venezuela, Indonesia, Poland, China and India.

The Rt. Hon. Herb Gray



International Joint Commission
Ottawa

Herb Gray was born in Windsor, Ontario, on May 25th, 1931, he was educated at Victoria School and Kennedy Collegiate in Windsor, the School of Commerce of McGill University (Montreal) and Osgoode Hall Law School (Toronto). He is a member of the Ontario Bar.

The Rt. Hon. Herb Gray represented the Federal riding of Windsor West in the House of Commons from June 1962 to January of 2002. Mr. Gray was elected thirteen consecutive times and was a member of the House of Commons for 39 years, six months and 26 days. He served in numerous parliamentary and government positions, including Opposition House Leader (1989-1990), Leader of the Opposition (1991-1993), Government House Leader (1993-1997) and Deputy Prime Minister (1997-2002).

Mr. Gray ceased to be Deputy Prime Minister and resigned from the House of Commons on January 14, 2002 to become the full-time Chair of the Canadian Section of the International Joint Commission - an autonomous international organization based on the Boundary Waters Treaty between Canada and the United States dealing with their transboundary issues concerning water and air.

On January 15, 2002 the Governor General bestowed on Mr. Gray the title "Right Honourable". He is now one of only six Canadians currently to hold the title, in addition to the eleven present and former Prime Ministers, Governors General, and Chief Justices of the Supreme Court of Canada - 16 in total.

On July 23, 1967, he married Sharon Sholzberg, a lawyer (B.Sc. and B.C.L. - McGill), originally from Ville St. Laurent (Montreal), Quebec. They have a son, Jonathan David and a daughter, Elizabeth Anne.

Mr. Gray is a Companion of the Order of Canada - the highest designation of the Order of Canada- bestowed by the Governor General on up to only 165 outstanding Canadians recognizing their special contribution to Canada.

Biographies of session chairs:

Andrew Miall



Department of Geology,
University of Toronto
Toronto, ON M5S 3B1
(416) 978-8841
miall@geology.utoronto.ca

Andrew Miall has been Professor of Geology at the University of Toronto since 1979. He is the inaugural holder there of the *Gordon Stollery Chair in Basin Analysis and Petroleum Geology*. His research and teaching specializations are in sedimentary geology. In addition, he teaches a popular science-for-non-scientists course entitled “*Geology and Public Issues*”, which deals with geological hazards, natural resources, and global change.

Andrew Miall was born in Brighton, England, in 1944, completing a B.Sc. at University of London in 1965. He obtained a Ph.D. in 1969 from the University of Ottawa based on research conducted with the Arctic Islands research group there. He worked in the petroleum industry in Calgary for three years, then joined the Geological Survey of Canada in Calgary as a Research Scientist in the Arctic Islands section. Since joining the University of Toronto in 1979, he has conducted research in the Colorado Plateau of Arizona, Utah, New Mexico and Colorado.

Miall was Editor of the national Canadian journal *Geoscience Canada* from 1982 to 1989, and was Co-Chief Editor of the Elsevier journal *Sedimentary Geology* from 1987 to 2005. Miall is the author or editor of seven books, including “*Principles of Sedimentary Basin Analysis*”, and the author of over 100 research papers. He has been an invited distinguished lecturer in Australia, Japan, China, Malaysia, Thailand, Venezuela, South Africa, The Netherlands, and Poland,. He was also Distinguished Lecturer for the American Association of Petroleum Geologists in 1986-1987, and was awarded the Grover E. Murray Distinguished Educator Award by that society in 2004. From 2000-2004 he served as Canada’s representative to the NATO Science and the Environment Committee on the Challenges of Modern Society.

Andrew Miall was awarded the Past President's Medal of the Geological Association of Canada in 1983, the D.Sc. degree, a Higher Doctorate, from the University of London in 1992, and an Honourary Doctorate from the University of Pretoria, South Africa, in March 2001. He was elected a Fellow of the Royal Society of Canada in 1995, and is currently serving a two-year term as Vice-President of the Academy of Science.

Andrew is married to Charlene Miall, Professor of Sociology at McMaster University, with whom he is working on a SSHRC-funded project to investigate the evolution of the earth-sciences as a discipline in Canada, with a particular emphasis on the emergence of research on environmental issues and global climate change.

Peter Nicholson



Council of Canadian Academies

Ottawa

peter.nicholson@scienceadvice.ca

Peter J.M. Nicholson became the inaugural president of the Council of Canadian Academies in February, 2006. He has served in numerous posts in government, business, science, and higher education. Before assuming his current post, he was Deputy Chief of Staff, Policy in the Office of the Prime Minister of Canada. He has served in the Nova Scotia provincial Legislature and in a number of public service positions over the past 30 years including as Clifford Clark Visiting Economist in Finance Canada and as Special Advisor to the Secretary-general of the OECD in Paris.

Dr. Nicholson's business career has included senior executive positions with the Scotiabank in Toronto; BCE Inc. – Canada's largest telecommunications firm – in Montreal; and HB Nickerson & Sons, a major fisheries company in Atlantic Canada.

Dr. Nicholson began his career in the academic sector where he taught computer science at the University of Minnesota for four years. He was also the founding Chair of the Board of the Fields Institute for Research in Mathematical Sciences.

A native of Halifax, Nova Scotia, he holds bachelor's and master's degrees in physics from Dalhousie University and a Ph.D. in Operations Research from Stanford University, as well as honorary doctorates from Dalhousie, Acadia University, and the University of Quebec.

Ashok Vijn



Institut de recherche d'Hydro-Québec

Montreal

vijn.ashok@ireq.ca

Ashok Vijn obtained his Ph.D. in Physical Chemistry from the University of Ottawa. He is Maître de Recherche at the Institut de recherche d'Hydro-Québec and, concurrently, invited Professor in Institut Nationale de la Recherche Scientifique of the Université du Québec.

Dr. Vijn's research has earned him world-wide reputation in electrochemistry. His insight in adopting and adapting concepts and methodologies from solid state physics, applied from a physical chemistry perspective, has allowed him to make an extraordinary number of original and innovative contributions, published in well over three hundred refereed publications.

Ashok Vijn has received over forty major prizes, awards, medals, decorations and other distinctions including the Noranda Lecture Award of the Chemical Institute of Canada (1979), the Urgel-Archambault prize of l'Association canadiennefrançaise pour l'avancement des sciences (1984), Chevalier de l'Ordre national du Québec (1987), the Izaak Walton Killam Memorial prize (1987), Doctor honoris causa of Concordia University (1989) and University of Waterloo (1993), the Thomas W. Eadie Medal of the Royal Society of Canada (1989), The Chemical Institute of Canada Medal (1990), Officer of the Order of Canada (1990), Compagnon de Lavoisier (Order of Chemists of Quebec (1995)), University Lectureship of the University of Ottawa (1997), Prix Marie-Victorin (Les prix du Québec; 1998), and the Golden Jubilee Medal (Queen Elizabeth II) in 2002. In 2005, he was elected a Visiting Fellow of St Edmund's College, Cambridge University.

Elected to the Royal Society of Canada in 1985, he has served it in many capacities such as: Director, App. Sci. & Eng. Div. of The Academy of Science (1990-92); Director, Math. & Phy. Sci. Div. of The Academy of Science (1994-97); Chair, Society Awards and Medals Committee (1998-2004); Chair, External Awards Committee (1995-98); Chair, Science and Ethics Committee (1995-98); Vice-President, The Academy of Science (2003-05).

Dr Vijn is a Fellow of several scientific societies and international academies, including the European Academy of Arts, Sciences and Humanities. He is well-known as a forceful advocate of the importance of fundamental research in Canada. He has also written on themes such as science and ethics, epistemology of science, and the unity of creative processes in arts and sciences. Dr. Vijn is an outstanding example of the vitality injected into Canadian culture and society by the community of new Canadians.