



NATIONAL ROUND TABLE ON THE ENVIRONMENT AND THE ECONOMY  
TABLE RONDE NATIONALE SUR L'ENVIRONNEMENT ET L'ÉCONOMIE

### **NRTEE Official Reports Copyright and Reproduction Notice**

All **NRTEE Official Reports** (“Works”), provided on this USB memory key and identified in the **NRTEE Official Reports List** folder, contain their individual copyright and reproduction notice. The notice in each of these Works is replaced and superseded by the following copyright and reproduction notice, effective February 22, 2013:

**© This Work is protected by copyright and made available for personal or public non-commercial use and may be reproduced, in part or in whole, and by any means, and may be further distributed for non-commercial use, without charge or further permission. All users are required to indicate that the reproduction, whether in part or in whole, is a copy of a Work of the National Round Table on the Environment and the Economy (NRTEE). Reproduction, in whole or in part, of this Work for the purpose of commercial redistribution is strictly prohibited. Furthermore, no right to modify or alter in any manner the Work is hereby granted.**

### **Consultant Reports Copyright and Reproduction Notice**

All **Consultant Reports** (“Works”), provided on this USB memory key and identified in the **Consultant Reports List** folder, were prepared for, or commissioned by, the National Round Table on the Environment and the Economy (“NRTEE”) in support of its research efforts, and may or may not reflect the views of the NRTEE. Such Works may not contain a copyright notice as they were not intended for public release when they were so prepared or commissioned. In the absence of a copyright notice, and where a copyright notice may in fact appear, the following notice shall be read together with the Work and, where applicable, replace and supersede any existing copyright notice, effective February 22, 2013:

**© This Work is protected by copyright and made available for personal or public non-commercial use and may be reproduced, in part or in whole, and by any means, and may be further distributed for non-commercial use, without charge or further permission. All users are required to indicate that the reproduction, in part or in whole, is a copy of a Work of the National Round Table on the Environment and the Economy (NRTEE). Reproduction, in whole or in part, of this Work for the purpose of commercial redistribution is strictly prohibited. Furthermore, no right to modify or alter in any manner the Work is hereby granted.**

**KEY CANADIAN EXPERTS AND STAKEHOLDERS RELATED TO  
CLIMATE CHANGE**

**FINAL REPORT**

**Prepared by the Canadian Global Change Program  
for the  
National Round Table on the Environment and the Economy**

**NRT-1997040  
Jeff Watson  
Canadian Global Change Program  
Climate Change**

**November 28, 1997**

**Table of contents**

Introduction ..... Page 3

Methodology ..... Page 4

Canadian Experts ..... Page 5

Canadian Stakeholders ..... Page 9

Annex A - Canadian Experts Records ..... Page 12

Annex B - Canadian Stakeholders Records ..... Page 47

Annex C - Tombstone Information ..... Page 61

## **Introduction**

The aim of this study is to identify and prepare information on the key experts and stakeholders in Canada that can assist the NRTEE with its leaders' forum initiative on global climate change.

The information is organized around three broad categories relating to global climate change. They are: Causes; Impacts/Adaptations; and Responses. The focus of this report is foremost on impact and to a lesser degree on the responses.

By selecting only 30 key Canadian experts & 30 key Canadian stakeholders we will not satisfy everyone that the choice of these 60 represents the top people. However, within the financial bounds of the contract, a choice has to be made as a point of departure. Part of that choice also comes from specific requests of the NRTEE. During the course of the study, many other names and contacts will be identified and the CGCP will be pleased to revisit these once the current task has been completed and the final report delivered.

The final report will be organized around four sections:

- 1- Methodology
- 2- List of Canadian experts organized by sectoral areas of expertise
- 3- List of Canadian stakeholders organized by type of organization
- 4- Annex with a more complete record for each of the selected 30 experts and 30 stakeholders that have responded to the questionnaire
- 5- Basic tombstone information on all experts and stakeholders initially selected and sent the questionnaire. Those who have not yet returned the questionnaire may therefore contain some out of date information

The separation of "experts" and "stakeholders" is somewhat artificial since some experts could just as easily be listed as the key contact at an institution which could arguably be called a stakeholder. Similarly, most stakeholders listed have their in-house experts in order to function adequately on the climate change file.

## Methodology

In order to organize the work and to ensure coverage of the major sectors involved in global climate change we have used modified versions of the categories defined by the IPCC and the Canada Country Study to classify the experts. They appear in the box.

Experts were then selected by CGCP staff and advisors while considering the aim of the study and the specific request of the NRTEE. They were matched to different sectors and categories. Phone interviews have been conducted to validate our identification of key experts. These interviews often generated new experts and stakeholders.

Selection for the final report was made by CGCP advisors, keeping in mind both the specific request of the NRTEE and the objective of selecting experts and stakeholders that strive to be national in their influence or expertise and that are focused more on the impact and response sides of the issues.

### OVERALL EXPERTISE

#### CAUSES

- The Science of Climate Change
  - Climate processes
  - Climate models
  - Climate changes

#### IMPACTS/ADAPTATIONS

##### Sectoral impacts

- Agriculture
- Built environment
- Energy
- Fisheries/Coasts/Oceans
- Forestry
- Health
- Insurance
- Recreation & Tourism
- Socio-cultural
- Trade and Commerce
- Transportation
- Unmanaged Ecosystems, Biodiversity, Wildlife & Wetlands
- Water Resources

#### RESPONSES

- Mitigation options
- Policies options

## CANADIAN EXPERTS

Note that this list is indicative only. The final 30 experts selected appear in bold. Annex A provides a more detailed record for each 30 selected expert. The annex is organized under alphabetical order of expert name.

## OVERALL EXPERTISE

**James P. Bruce, O.C., FRSC**

**Dr. Prof. L.D.D. Harvey, Department of Geography, University of Toronto**

**Dr. Henry Hengeveld, Advisor, Carbon Dioxide Related Matters, Atmospheric Environment Service**

**Mr. Robert Hornung, Pembina Institute**

**Mr. Doug Russell, GCSI - Global Change Strategies International Inc**

**Dr. Ian Rutherford, Manager, Research, Canadian Institute for Climate Studies, University of Victoria**

## CAUSES

The Science of Climate Change

**Dr. Henry Hengeveld, Advisor, Carbon Dioxide Related Matters, Atmospheric Environment Service**

**Dr. Gordon A. McBean, Assistant Deputy Minister, Atmospheric Environment Service, Environment Canada**

Models

General circulation models :

**Dr. George Boer, Canadian Climate Centre, Atmospheric Environment Service**

**Dr. Norman McFarlane, Numerical Modeling & Diagnostic Station, Canadian Climate Centre**

Regional climate models:

**Dr. Jean-Pierre Blanchet, Dép. de physique, UQAM**

**Dr. René Laprise, Dép. de physique, UQAM.**

Processes

Land and Hydrologic processes:

**Dr. Diana Versegly, Canadian Climate Centre, Atmospheric Environment Service**

Radiation processes:

**Dr. Norman McFarlane, Numerical Modeling & Diagnostic Station, Canadian Climate Centre**

Ocean processes:

**Dr. Lawrence A. Mysak, Director, Department of Meteorology, McGill University**

**Dr. Andrew Weaver, University of Victoria, School of Earth & Ocean Sciences**

Upper air processes:

**Dr. John Stone, Meteorological Services Research Branch, Environment Canada**

## Changes

### Historical changes:

**Dr. F. Kenneth Hare**

### Palaeoclimatology:

**Dr. W. Richard Peltier**, Dept. of Physics, University of Toronto

**Dr. Richard Haworth**, Director General, Sedimentary & Marine Geoscience, Natural Resources Canada

## IMPACTS/ADAPTATION

### Agriculture

**Dr. Mike Brklacich**, Assistant professor, Dept of Geography, Carleton University

**Dr. Barry Smit**, Dept. of Geography, University of Guelph

**Dr. John W.B. Stewart**, Dean, College of Agriculture, University of Saskatchewan

**Dr. Elaine Wheaton**, Climatologist, Lead Scientist, Climatology Section, Saskatchewan Research Council

### Built Environment

**Alan Dalglish**, Retired Senior research Officer NRC

**Dr. Alan G Davenport**, Boundary Layer Wind Tunnel Lab., University of Western Ontario

### Domestic Trade & Commerce

**M. Philippe Crabbé**, Director, IREE, University of Ottawa

### Energy

**James P. Bruce**, O.C., FRSC

**Aldyen Donnelly**, Greenhouse Emissions Consortium (GEMCo)

**Luc Gagnon**, Conseiller en environnement, Direction Communication et Environnement, Hydro-Québec

**Eric Haites**, Margaree Consultants Inc.

**John Legg**, Senior Science Advisor, Office of Energy R&D, Natural Resources Canada

**Dr. Michael Margolick**, The ARA Consulting Group,

**Prof. John Robinson**, Director, Sustainable Development Research Institute, University of British Columbia,

**Ralph Torrie**, Partner, Torrie Smith and Associates

### Fisheries/Coasts/Oceans

**Dr. Richard Beamish**, Director, BSB, Pacific Biological Station, Fisheries & Oceans

**Dr. Ken Drinkwater**, Bedford Institute of Oceanography, Fisheries and Oceans

**Dr. Ken Minns**, Bayfield Institute, Fisheries and Oceans Canada

**Jim Powell**, Advisor, Physical Oceanography, Fisheries and Oceans

**Prof. Henry Regier**, Professor Emeritus, Dept of Zoology, University of Toronto

**Dr. John Shaw**, Atlantic Geoscience Center, Bedford Institute of Oceanography

## Forestry

Dr. Mike Apps, Northern Forestry Centre, Forestry Canada  
**Dr. David Martell, Associate Professor, Faculty of Forestry, University of Toronto**  
Dr. Dave Spittlehouse, Forest Climatologist, Research Branch, B.C. Ministry of Environment  
**Dr. Robert B. Stewart, Coordinator, Climate Change Science Br., Canadian Forestry Service, Natural Resources Canada**  
Dr. Brian J. Stocks, Chief, Forest Fire Research, Forestry Canada  
**Dr. Elaine Wheaton, Climatologist, Lead Scientist, Climatology Section Saskatchewan Research Council**

## Health

**Dr. David V. Bates, Professor Emeritus of Medicine, Dept. Of Health Care & Epidemiology, University of British Columbia**  
**Dr. John Last, Editor, Annals, Royal College of Physicians & Surgeons**

## Insurance

Jim Harries, Insurance Bureau of Canada  
**Angus Ross, President, Sorema Management Inc.**

## Recreation & Tourism

**Dr. Geoffrey Wall, Faculty of Environmental Studies, University of Waterloo**

## Socio-cultural

**Dr. Harold Coward, University of Victoria, Centre for Stud. in Religion & Soc.**  
Dr. Thomas Hurka, Dept. of Philosophy, University of Calgary  
**Doug Miller, President, Environics International Ltd.**

## Transportation

Dr. Jean Andrey, Department of Geography, University of Waterloo  
**Richard Gilbert, Center for Sustainable Transportation**  
**Ken Ogilvie, Executive Director, Pollution Probe**  
Dr. Judith Patterson, Dept. of Geological Sciences, Concordia University  
**Prof. José A. Prades, Professeur et directeur, GREIGE, Université du Québec à Montréal**

## Unmanaged Ecosystems' Biodiversity' Wildlife & Wetlands

**Dr. Tom Brydges, Canada Centre for Inland Waters, Ecological Monitoring Coord Office**  
Don MacIver, Sci.Assess.& Policy Integration, Environment Canada  
**Dr. David W. Schindler, University of Alberta, Dept. of Biological Sciences**  
Dr. David Welch, Natural Resources Branch, Parks Canada, Department of Canadian Heritage

## Water Resources

**Dr. Stewart J. Cohen, Senior Associate, University of British Columbia**  
Dr. Arthur Dyke, Geological Survey of Canada  
**Dr. F. Kenneth Hare**  
Dr. Paul. H. Leblond, Dept. of Oceanography, University of British Columbia  
Linda Mortsch, Environmental Adaptation Research Group, Faculty of Environmental Studies  
**Dr. Andrew Weaver, University of Victoria , School of Earth & Ocean Sciences**

## **RESPONSES**

**James P. Bruce, O.C., FRSC**

**Mr. Doug Russell, GCSI - Global Change Strategies International Inc**

**Prof. John Robinson, Director, Sustainable Development Research Institute, University of British Columbia**

### **Mitigation Options and Costs**

**Dr. Chris Green, Chair, Dept. of Economics, McGill University**

**Eric Haites, Margaree Consultants Inc.**

**Dr. Michael Margolick, The ARA Consulting Group,**

### **Policy Options**

**Robert Hornung, Pembina Institute**

**Dr. William Leiss, Queen's University, School of Policy Studies**

**Dr. Hugh Morris, CGCP president, Padre Resource Corporation**

**Mr. Doug Russell, GCSI - Global Change Strategies International Inc**

## CANADIAN STAKEHOLDERS

The following have been identified as major stakeholders on the issue of global climate change. They are organized under three categories: business, civil society and government. Those that appear in bold are identified as key stakeholders and a more detailed record of them appears in annex B.

Organization	Phone	Fax	Name
<b>BUSINESS</b>			
<b>Alliance for Responsible Env. Alternatives</b>	<b>403-944-0695</b>	<b>403-441-9849</b>	<b>Tom Vant</b>
<b>Business Council on National Issues</b>	<b>613-238-3727</b>	<b>613-236-8679</b>	<b>John Dillon</b>
<b>Canadian Assoc. of Petroleum Producers</b>	<b>403-267-1147</b>	<b>403-261-4622</b>	<b>Gary Webster</b>
<b>Canadian Chemical Producers Association</b>	<b>519-339-3505</b>	<b>519-339-3417</b>	<b>Don Hames</b>
<b>Canadian Electricity Association</b>	<b>613-230-9876</b>	<b>613-230-9326</b>	<b>Pierre Guimond</b>
<b>Canadian Institute for Business &amp; Environment</b>	<b>514-369-0230</b>	<b>514-369-3282</b>	<b>Gary Gallon</b>
<b>Canadian Labour Congress</b>	<b>613-521-3400</b>	<b>613-521-4655</b>	<b>David Bennett</b>
<b>Canadian Pulp and Paper Association</b>	<b>514-866-6621</b>	<b>514-866-3035</b>	<b>Jean-Pierre Martel</b>
<b>Canadian Wind Energy Association</b>	<b>613-566-7005</b>	<b>613-233-9527</b>	<b>Jeff Passmore</b>
<b>Coal Association of Canada</b>	<b>403-262-1544</b>	<b>403-265-7604</b>	<b>Don Downing</b>
<b>Conference Board of Canada</b>	<b>613-526-3280</b>	<b>613-526-4857</b>	<b>Al Howatson</b>
<b>Insurance Bureau of Canada</b>	<b>416-362-2031</b>	<b>416-361-5952</b>	<b>Jim Harries</b>
<b>Motor Vehicle Manufacturers Assoc.</b>	<b>416-364-9333</b>	<b>416-367-3221</b>	<b>Mark Nantais</b>
<b>The Fraser Institute</b>	<b>604-688-0221</b>	<b>604-688-8539</b>	<b>Michael Walker</b>
Canadian Petroleum Producers Association	403-691-3239	403-691-2224	Dana Atwell
Canadian Environment Industry Assoc	613-236-6222	613-236-6850	Ronald Portelli
Canadian Gas Association	613-824-3053	613-824-3053	John Klenavic
Canadian Steel Producers Assoc.	613-238-6049	613-238-1832	Jean Van Loon
Centre Patronale de l'Env du Quebec	514-393-1122	514-393-1146	Michael Cloghesy
Council for Forest Industries	604-891-1247	604-687-4930	Brian McCloy
Solar Energy Society of Canada Inc	613-234-4151	613-736-8938	Sheila McCurdy

**CIVIL SOCIETY**

Association climatique du Québec	418-646-8526	418-646-5427	Jacinthe Lacroix
Canadian Center for Policy Alternatives	613-563-1341	613-233-1458	Bruce Campbell
Canadian Council of Churches	416-921-7759	416-921-7478	Hélène Leclerc
Canadian Energy Research Institute (CERI)	403-282-1231	403-284-4181	Doug Bruchet
Canadian Federation of Municipalities	613-241-5221	613-241-7117	Nicole Richer
Canadian Global Change Program	613-991-5642	613-991-6996	Jeff Watson
Canadian Inst for Env Law & Policy	416-923-3259	416 923-5949	Jack Gibbons
David Suzuki Foundation	604-732-4228	604-732-0752	Jim Fulton
Environmental Youth Alliance	604-873-0616	604-877-1355	Doug Regan
Greenpeace	416-597-8408	416-597-8422	Kevin Jardine
International Institute for Sustainable Devel.	204-958-7700	204-958-7710	Jim MacNeil
International Cent.for Local Init. on the Env.	416-392-1480	416 392-1478	Phil Jessup
Pembina Institute	613-235-6288	613 235-2190	Robert Hornung
Pollution Probe	416-926-1907	416-926-1601	Ken Ogilvie
Sierra Club	613 741-9948	613 744-8664	Louise Comeau
Environmental Youth Alliance	604-873-0616	604-877-1355	Doug Regan
Ambassador for the Environment	613-944-0886	613-944-0892	John Fraser
Canadian Climate Action Network	613 741-9948	613 744-8664	Louise Comeau
Canadian Public Health Association	613-725-3769	613-725-9826	
Coalition qué. sur chang. climatique	514-933-0021	514-933-1017	Steven Guilbeault
Consumers Assoc. of Canada	604-689-3770	604-689-3779	Ruth Lotzkar
Greenpeace Quebec	514-933-0021	514-933-1017	Steven Guilbeault
Green Communities Association	705-742-2659	705-745-7294	Dave McLeod
N.A. Wetlands Conservation Council	613-228-2601	613-228-0206	Ken Cox
Nat Agriculture and Envt Ctte.	613-237-5833	613-236-5749	Sheila Forsyth
Public Policy Forum	613-238-7160	613-238-7990	Eva Kmiecic
Recreation Fisheries Inst of Canada	613-599-4028	613-599-4063	Bob Bailey

## Government

### Canada

Natural Resources Canada	613-992-3456	613-992-3828	Jean C. McCloskey
Environment Canada	819-997-4203	819 953-6897	Ian Glen
Foreign Affairs and International Trade	613-996-1231	613-944-0928	Ruth Archibald
Prime Minister's Office	613-957-5567	613-957-5514	Marjory Loveys

### Alberta

Environmental Protection	403-427-2231	403- 422-5136	Simon Knight
Energy	403-422-8779	403- 427-2278	Goldie Edworthy

### British Columbia

Environment, Lands and Parks	250-356-6027	250- 356-7197	Doug Dryden
Energy	250-952-0244	250-952-0258	Warren Bell

### Newfoundland

Environment and Labour	709-729-5782	709-729-1930	Ken Dominie
Mines and Energy	709-729-5746	709-729-2508	David Bazeley

### Prince Edward Island

Fisheries and Environment	902-368-5037	902-368-5830	Todd Fraser
---------------------------	--------------	--------------	-------------

### Nova Scotia

Environment	902-424-2566	902-424-0503	Kate Moir
Natural Resources	902-424-8175	902-424-7735	Alan Parker

### New Brunswick

Environment	506-457-4844	506-453-2265	Jim Knight
Natural Resources and Energy	506-453-3049	506-453-6689	Marion Rigby

### Ontario

Environment and Energy	416-323-5626	416-323-5636	Tony Rockingham
------------------------	--------------	--------------	-----------------

### Québec

Environnement et Faune	418-521-3950	418-646-001	Conrad Anctil
------------------------	--------------	-------------	---------------

**ANNEX A  
CANADIAN EXPERTS RECORDS**

Dr. David V. Bates  
Professor Emeritus of Medicine  
Dept. Of Health Care & Epidemiology  
University of British Columbia  
5804 Fairview Avenue  
Vancouver, B.C.  
V6T 1Z3  
tel: 604-288-0484  
fax: 604-288-4412  
em: dvbates@msn.com

Dr. David V. Bates

**Areas of expertise:** Health, Environmental policy, possible impacts on human health

**Biography or credentials:**

David Bates is an expert in the field of the impacts of air pollution and climate on human health, as studied by epidemiological methods. He considers that a major (but so far little discussed) impact of a warming of the climate will be to accelerate the formation of tropospheric ozone from its precursors. As ozone at its present level has been shown, beyond doubt, to be having an influence on hospital admissions for respiratory disease in southern Ontario, he considers that a warming trend, with a consequent impact on ozone formation, will be detrimental to human health wherever tropospheric ozone is already a problem.

**Organization type:** University

**Major activities:** Research and education

**Sector of activities:** Health

**Other affiliations:**

Member Air Quality Advisory Committee, GVRD Vancouver.

Member, American Thoracic Society (active in relation to air quality standards in the US)

Mr. Jim Bruce  
1875 Juno Avenue  
Ottawa, ON  
K1H 6S6  
Tel: 613 731-5929  
Fax: 613 731-3509  
em: jpbruce@sympatico.ca

Mr. Jim Bruce

**Areas of expertise:** General environment, Atmospheric sciences, Environmental policy, Water

**Biography or credentials:**

James P. Bruce, O.C., FRSC  
B.A. 1948, M.A. Physics (Meteorology) 1952, University of Toronto.  
D.E.S. (Honoris causa) 1994, University of Waterloo

Jim Bruce's 37 government career was mainly in water resources and atmospheric sciences. During the final 6 years he served as Asst. Deputy Minister, Atmospheric Environment Service, Environment Canada, responsible, among other things for the Canadian Climate Change Centre. From 1986-1989 he was Director of Technical Cooperation and Acting Deputy Secretary-General of the World Meteorological Organization, Geneva. In these positions, he assisted in establishment of the Intergovernmental Panel on Climate Change (IPCC) and had general responsibility for many projects in developing countries on weather and disaster warning systems, climate, water, and air quality. Since 1990, he has undertaken numerous national and international consulting assignments. From 1990-94, he served as chair of the U.N.'s Scientific and Technical Committee for the International Decade for Natural Disaster Reduction. Between 1992 and 1997 he was Chair of the Canadian Climate Program Board and from 1993 to 1997 Co-chair of Working Group 3 (Economic Social Aspects) of IPCC. He was also Chair of the World Climate Research Program Conference for assessment of achievements and setting future priorities, Geneva, August 1997.

Jim Bruce has written and presented many papers and articles on climate, climate change, water resources, disaster mitigation and related topics. Recent awards include the 1994 IMO Prize of the World Meteorological Organization for "exceptional worldwide contributions in meteorology and hydrology", and the degree of Doctor of Environmental Studies, *honoris causa* from University of Waterloo. In 1996 he was awarded the Massey Medal of the Royal Canadian Geographical Society, and in 1997 was made an Officer of the Order of Canada, and Fellow of the Royal Society of Canada.

**Organization type:** Other public sector and NGO.

**Major activities:** Water, environment, climate.

**Sector of activities:** Research, environment.

**Other affiliations:** none provided.

Dr. Tom Brydges  
Canada Centre for Inland Waters  
Ecological Monitoring Coordinating Office  
867 Lakeshore Rd., PO Box 5050  
Burlington, ON  
L7R 4A6  
tel: 905 336-4410  
fax: 905 336-4499  
em: tom.brydges@cciw.ca

Dr. Tom Brydges

**Areas of expertise:** General environment, ecological effects

**Biography or credentials:**

Tom Brydges holds a Ph.D. in chemistry from the University of Western Ontario. After his post-doctoral work at England's Water Pollution Research Laboratory, he joined the Ontario Ministry of the Environment. He held several positions from 1967 to 1985, ending as coordinator of the Ontario Ministry of the Environment Acid Rain Research Project.

In 1985, he joined Environment Canada's Acid Rain Coordinating Office. The role was expanded to include science/policy coordination for smog, acid rain, air quality objectives, climate change, and stratospheric ozone. He was Director of this office from 1989 to 1994.

In April 1994 he moved to the Environmental Conservation Service as Director of the Ecological Monitoring Office at the Canada Centre for Inland Waters in Burlington.

In June 1996, the office was merged with the State of the Environment Reporting Branch. As Director of the new Indicators, Monitoring and Assessment Branch, he is responsible for coordinating and facilitating a series of programs that gather data, develop and apply indicators and prepare issue based assessments.

**Organization type:** National government

**Major activities:** Coordinating research and monitoring, developing indicators and promoting the development of issue or area assessments

**Sector of activities:** Research, education, environment

**Other affiliations:** None provided

Dr. Stewart J. Cohen  
a) Research Scientist  
Environmental Adaptation Research Group  
Environment Canada  
b) Senior Associate  
University of British Columbia  
Sustainable Development Research Institute  
B5-2202 Main Mall  
Vancouver, BC, V6T 1Z4  
tel: (604) 822-1635  
fax: (604) 822-9191  
em: scohen@sdri.ubc.ca

Dr. Stewart J. Cohen

**Areas of expertise:** Atmospheric sciences, geosciences, human dimensions, integrated assessment, regional impacts

**Biography or credentials:**

Stewart J. Cohen is a scientist with the Environmental Adaptation Research Group, Atmospheric Environment Service of Environment Canada. Dr. Cohen received university training in geography from McGill University, the University of Alberta, and the University of Illinois, where he obtained a Ph.D. in 1981. Through an agreement with the University of British Columbia, he is also a Senior Associate with the Sustainable Development Research Institute, and is currently located in Vancouver.

Dr. Cohen has authored or co-authored more than 40 publications on regional impacts of climate and climate change, including case studies of the Great Lakes and Saskatchewan River, and has served as an external reviewer and advisor to the United States Environmental Protection Agency, the International Joint Commission, the Netherlands Global Change Programme, the United Kingdom Department of Environment, and the United Nations Environment Program. He was also a member of the Expert Group on Guidelines of the Intergovernmental Panel on Climate Change (IPCC) Working Group II. From 1990-1997, Dr. Cohen was also the director of the Mackenzie Basin Impact Study (MBIS), a six-year interdisciplinary study on the impacts of global warming scenarios in this watershed, which includes parts of British Columbia, Alberta, Saskatchewan, Northwest Territories and the Yukon Territory. This study has been supported by the Government of Canada and other sponsors and collaborators from governments, academia, native organisations and private industry. He was editor and co-author of the MBIS Final Report which was published by Environment Canada in August 1997.

His current activities include a study on transboundary water issues and climate change, funded by the Commission for Environmental Cooperation established by the North American Free Trade Agreement (NAFTA). This work is being undertaken as part of a collaborative effort with researchers in the United States and Mexico. He is also on the editorial boards of the following refereed journals: Climatic Change, Climate Research, and Environmental Modeling and Assessment.

**Organization type:** University, National governments

**Major activities:** research on a) impacts of climate variability and climate change, b) adaptation to climate variability and climate change, c) climate change and sustainable development

**Sector of activities:** research, education, environment

**Other affiliations:** member of the American Meteorological Society

Dr. Harold Coward  
University of Victoria  
Centre for Stud. in Religion & Soc.  
P.O. Box 3045  
Victoria, BC  
V8W 3P4  
tel: 250 721-6325  
fax: 250 721-6234  
em: csrs@uvvm.uvic.ca

Dr. Harold Coward

**Areas of expertise:** Ethics, fisheries, oceans, energy, general policy and health

**Biography or credentials:**

Board of Directors and Executive of CGCP, Co-Chair of Canadian Human Dimensions Committee, Dir. of Research Centre.

Pubs include:

- *Ethics and Climate Change: The Greenhouse Effect* (WLU Press, 1993);
- *Population, Consumption and the Environment: Religious and Secular Responses* (SUNY Press, 1995);
- *Tensions Between Traditional and Modern Approaches to the Environment on the Pacific Rim* (SUNY, 1997);
- *Visions of a New Earth: Population, Consumption and Ecology* (SUNY, 1998)

plus several journal articles on Hindu Environmental Ethics.

**Organization type:** University.

**Major activities:** University level interdisciplinary research in environmental ethics.

**Sector of activities:** Research and environment.

**Other affiliations:** None provided.

Alan Dalgliesh  
Retired Senior research Officer NRC  
237 Valley Ridge Green, NW  
Calgary, Alberta  
T3B 5L6  
tel: (403) 286-2177  
fax: (403) 286-9156  
em: dalgliesh@freenet.calgary.ab.ca

Alan Dalgliesh

**Areas of expertise:** My expertise is not climate change per se, but in the course of my research, I found that climatic effects played a major role: Wind loads, snow loads, effects of driving rain on durability of cladding, extreme events such as tornadoes, line squalls, hail storms, hurricanes are all important parts of the work I did. Durability of buildings and the materials in them will vary with the climate and the climate variability of their geographical region, and if there are changes, the service lives of buildings change too. Structural Engineering research, specializing in loads on structures, wind effects in particular, performance of window and wall glass under load, and durability of building walls and roofs (cladding).

**Biography or credentials:**

See under area of expertise. As far as the built environment is concerned, the following items are relevant:

Professional Activities: P.Eng., Association of Professional Engineers of Ontario, APEGGA (Alberta); Canadian Society for Civil Engineers. Joined NRCC in 1959, did field measurements of wind effects on tall buildings from 1962-1980, on other buildings from 1980-1995. Served national and international associations in the development of wind engineering from 1967-1995. In 1974 started research on wind resistance of glass to aid standards development, co-chaired CGSB committee on 12.20-M89, Structural Design of Glass for Buildings. From 1990-1995, focused on joint research with the curtain wall industry on durability of building envelopes, e.g. through control of wind-driven rain. Wrote about 83 publications, of which 24 were for refereed journals, conference proceedings or book chapters.

**Organization type:** National Government, formerly Senior Research Officer, Institute for Research in Construction, National Research Council. Now, semi-retired, doing consulting on Wind Engineering, Glass Strength, and Building Cladding Durability.

**Major activities:** Former affiliation, IRC/NRCC is Canada's lead organization for research in all forms of construction in the built environment, including infrastructure such as roads, sewers, bridges, dams, residential construction, commercial construction, etc. Now, as a consultant I make the research results available to building specialists, particularly those working with the building envelope, and also to designers requiring expert advice on wind effects and glass strength.

**Sector of activities:** Research for 36 years (DBR/NRCC, now called IRC/NRCC).

**Other affiliations:** I was chairman of the Canadian Standards Association's committee that developed the Guideline for Durability in Buildings, S-478, 1995. I am still an associate to the CSA Standard Steering Committee on Structures (Design) as a result of that involvement. I am also Newsletter Editor of the Alberta Building Envelope Council South here in Calgary.

Mr. Richard Gilbert  
Centre for Sustainable Transportation  
15 Borden Street  
Toronto, ON  
M5S 2M8  
tel: 416 923-8839  
fax: 416 923-6531  
em: 72114.611@compuserve.com

Mr. Richard Gilbert

**Areas of expertise:** General environment, environmental policy, human dimensions, transportation

**Biography or credentials:** None provided.

**Organization type:** NGO

**Major activities:** work with the centre for sustainable transportation is a minor part of my activity related to climate change.

**Sector of activities:** Research, Education, Environment, Energy

**Other affiliations:** OECD

Mr. Erik Haites  
Margaree Consultants Inc.  
145 King St. West, Suite 1000  
Toronto, ON  
M5H 3X6  
TEL: 416 369-0900  
FAX: 416 369-0922  
EM: ehaites@hookup.net

Mr. Erik Haites

**Areas of expertise:** Expertise is in economics and economic instruments, emissions trading, joint implementation, environmental policy, finance/economics/trade.

**Biography or credentials:**

Dr. Haites has served as Head of the Technical Support Unit for Working Group III of the Intergovernmental Panel on Climate Change (IPCC) during the past three years while its contribution to the Second Assessment Report was prepared. Working Group III is responsible for assessing the literature related to the economic aspects of climate change. Over 60 experts from around the world were involved in writing the report, which was then sent to over 500 reviewers and finally reviewed again by the 200 governments and participating organizations.

Dr. Haites has also directed several studies to estimate emissions of greenhouse gases and to analyze options for reducing or offsetting such emissions for utilities and for governments. He served as an advisor to the U.S. Office of Technology Assessment for its study of options for reducing greenhouse gases, *Changing by Degrees*, and a member of the blue ribbon panel on Canadian Options for Greenhouse Gas Emissions Reduction. He was invited to testify before the House of Commons Committee on Environment and the Ontario Select Committee on Global Warming.

Dr. Haites has published several papers and made numerous conference presentations on economic aspects of climate change, emissions trading, and the use of monetary values for environmental externalities in electric utility planning.

Dr. Haites holds a B.S. in mathematics from the University of Alberta, an MBA from McGill University, and an M.A. and Ph.D. in economics from Purdue University.

**Organization type:** Private sector consulting firm.

**Major activities:** Economic consulting relating to environmental and energy issues.

**Sector of activities:** Environment, energy and service.

**Other affiliations:** None provided.

Dr. F. Kenneth Hare  
301 Lakeshore Road West  
Oakville, ON  
L6K 1G2  
tel: 905 849-1374  
fax: 905 849-4954  
em: fkhare@pathcom.com

Dr. F. Kenneth Hare

**Areas of expertise:** Hydrology, General environment, Atmospheric sciences, Geosciences, Energy, General Policy, Environmental policy,

**Biography or credentials:** None provided.

**Organization type:** University, International organization.

**Major activities:** Teaching and research.

**Sector of activities:** Research, Education, Environment, Energy, Natural resources, Health.

**Other affiliations:** Royal Society of Canada.

Dr. Richard Haworth  
Director General  
Sedimentary & Marine Geoscience  
Natural Resources Canada  
601 Booth St. - Room 216  
Ottawa, ON  
K1A 0E8  
tel: 613 995-2340  
fax: 613 996-6575  
em: haworth@gsc.emr.ca

Dr. Richard Haworth

**Areas of expertise:** Energy, General environment, Geosciences, Fisheries Oceans

**Biography or credentials:**

Responsibility within the Geological Survey for geoscience activities related to Climate Change; Spokesperson (at DG level) for the science of Climate Change within NRCan as a whole; Member of NRCan DG Committee on Climate Change; NRCan correspondent for CGCP and CCPB; NRCan member of DG Steering Committee for the Memorandum of Understanding among the four Natural Resource Departments on S&T for Sustainable Development (of which one main topic is Climate Change).

**Organization type:** National government

**Major activities:** Geoscience surveys

**Sector of activities:** Research, Environment, Energy, Natural resources

**Other affiliations:** None provided

Dr. Henry Hengeveld  
Advisor  
Carbon Dioxide Related Matters  
Atmospheric Environment Service  
4905 Dufferin St.  
Downsview, ON  
M3H 5T4  
tel: 416 739-4323  
fax: 416 739-5700  
em:henry.hengeveld@ec.gc.ca

Dr. Henry Hengeveld

**Areas of expertise:** Atmospheric sciences, science

**Biography or credentials:**

BSc in physics (1968) and MSc in meteorology (1970), both from U of Toronto.

Last 15 years devoted to ongoing comprehensive assessment of all aspects of science relative to climate change, and the communication of assessment results and further research needs to policy makers, public sectors as well as research communities.

Ongoing participation various international and national meetings on assessment of climate change science and development of policy response options.

**Organization type:** National government

**Major activities:** atmospheric environmental research and services

**Sector of activities:** Research and education

**Other affiliations:** None provided

Mr. Robert Hornung  
Climate Change Program Director  
Pembina Institute  
251 Laurier Ave., W. Suite 500  
Ottawa, ON  
K1P 5J6  
tel: 613-235-6288  
fax: 613-235-2190  
em: rhornung@web.net

Mr. Robert Hornung

**Areas of expertise:** Atmospheric sciences, environmental policy, energy, policy development, policy research, policy analysis

**Biography or credentials:**

Robert Hornung is the Climate Change Program Director at the Pembina Institute, and is responsible for coordinating the Institute's research and advocacy on the climate change issue. His work focuses on the analysis, design and promotion of actions to reduce greenhouse gas emissions at the corporate, municipal, provincial, national and international levels. Mr Hornung has participated on several Canadian delegations to international climate change negotiations, and has been involved in a number of regional and national multistakeholder processes to design policy responses to climate change.

Prior to joining the Pembina Institute, Mr. Hornung worked on the climate change issues with the Organization for Economic Cooperation and Development (OECD) in Paris, designing the process now used to report and review countries' action plans under the U.N. Framework Convention on Climate Change. He has also worked on the climate change issue at Environment Canada, where he was the co-author of Canada's first *National Report on Climate Change*, and at Friends of the Earth-Canada. Mr. Hornung holds a Masters Degree in Political Science from the University of Toronto.

**Organization type:** NGO

**Major activities:** research, education, advocacy, consulting

**Sector of activities:** research, education, environment, energy

**Other affiliations:** None provided

John Last MD  
Emeritus Professor of Epidemiology  
Faculty of Medicine  
University of Ottawa  
451 Smyth Road  
Ottawa, Canada, K1H 8M5  
Phone (613) 562-5800 Ext 8285  
Fax (613) 562-5465  
Home Phone (613) 233-4859

Dr. John Last

**Areas of expertise:** health, public health, epidemiology, environmental ethics

**Biography or credentials:**

John Last was born and educated in Australia. He graduated in medicine (MB,BS) from the University of Adelaide in 1949 and proceeded to the MD with a thesis on epidemiological studies in Australia, the United States and the United Kingdom. He has worked in Australia, England, Scotland and the United States and for the World Health Organization and other agencies in several developing countries. He has been professor of epidemiology and community medicine at the University of Ottawa, Canada, since 1969. He was editor-in-chief of the 11th, 12th and 13th editions of Public Health and Preventive Medicine ("Maxcy-Rosenau-Last"); editor of the 1st, 2nd and 3rd editions of A Dictionary of Epidemiology; scientific editor of the Canadian Journal of Public Health 1981-1991; editor of Annals of the Royal College of Physicians and Surgeons of Canada 1990-1997, and has served as editor or a member of the editorial board of several other medical journals. He is the author of chapters in 36 books and over 200 original articles in journals of medicine, epidemiology and public health.

He was president of the American College of Preventive Medicine in 1987-89 and Canadian Vice President of the American Public Health Association in 1988-89. He has held office in several other professional associations and colleges and is an honorary life member of the International Epidemiological Association. He was the Wade Hampton Frost Lecturer to the Epidemiology Section, American Public Health Association in 1989; he received the MD degree honoris causa from Uppsala University, Sweden in 1993, the Duncan Clark Award of the Association of Teachers of Preventive Medicine, for lifetime achievement in preventive medicine in 1994, and the Abraham M Lilienfeld Award of the American College of Epidemiology for contributions to epidemiology, in 1997.

His principal research interests are global ecosystem health and sustainability, and related aspects of ethics. He is currently preparing a monograph on ethical and philosophical aspects of public health, with emphasis on ecosystem health.

**Organization type:** University

**Major activities:** medical education, epidemiological research

**Sector of activities:** Health

**Other affiliations:** I am getting increasingly involved with NGOs, specifically FoE and the Suzuki Foundation

Dr. William Leiss  
Queen's University  
School of Policy Studies  
Policy Studies Bldg., Rm 418  
Kingston, ON  
K7L 3N6  
tel: 613 545-6832  
fax: 613 545-6630  
em: leissw@post.queensu.ca

Dr. William Leiss

**Areas of expertise:** Public policy analysis, risk communication, stakeholder consultation  
general environment, general policy, environmental policy, communications/PR.

**Biography or credentials:**

William Leiss is a Fellow of the Royal Society of Canada and holds the Eco-Research Chair in Environmental Policy in the School of Policy Studies at Queen's University, Kingston, Ontario. He is a member of the Board of Directors of the Canadian Global Change Program and chairs its Research Policy Committee.

He has held academic appointments in political science (Regina, York), sociology (Toronto), environmental studies (York), and communication (Simon Fraser); at Simon Fraser he was also Vice President, Research.

He is author, collaborator or editor for nine books and numerous articles; his most recent book, *Risk and Responsibility* (McGill-Queen's University Press, June 1994) contains detailed case studies of controversies over environmental and health risks in Canada.

Over a period of ten years he has worked extensively in a consulting capacity with industry and with Canadian federal and provincial government departments in the area of risk communication, risk management, public consultation, and consensus-building, for issues dealing with pesticides, toxic chemicals, prescription drugs, and others. Current risk communication projects include: chemical industry (AOX, sour gas, dioxins, antisapstains: British Columbia, Alberta, Ontario), waste management (Ontario), biotechnology (Canada), and tobacco control policy (Canada).

**Organization type:** University.

**Major activities:** Research and research dissemination.

**Sector of activities:** Teaching and dissemination of research.

**Other affiliations:** CGCP Board of Directors, Committee on Expert Panels, Royal Society of Canada.

Dr. Michael Margolick  
The ARA Consulting Group  
Suite 305, 355 Burrard Street  
Vancouver, BC  
V6C 2G8  
tel: (604) 681-7577  
fax: (604) 669-7390  
em: margolic@aragroup.ca

Dr. Michael Margolick

**Areas of expertise:** Energy, General Policy, Environmental policy, Finance/Economics/Trade, Education, Biological sciences

**Biography or credentials:**

Dr. Michael Margolick is a Senior Consultant with the ARA Consulting Group, specializing in climate change and energy, including economics, corporate planning, regulation, resource and environmental analysis and public involvement. He has a BA in Mathematics from Cornell University and a Ph.D. in Mathematics from the University of British Columbia. He has been a Research Associate in the Economics Department and the Senior Scientist of the Forest Economics and Policy Analysis Project, both at the University of BC. He has also worked as a Senior Resource Planning Coordinator for the Corporate Strategic Planning Unit at BC Hydro. Prior to joining ARA, he was the Executive Director of the BC Energy Council and the principal author of its Sustainable Energy Strategy, entitled Planning Today for Tomorrow's Energy. He is an adjunct professor in the School of Resource and Environmental Management at Simon Fraser University.

**Organization type:** Private sector

**Major activities:** consulting

**Sector of activities:** Research, Education, Environment, Energy

**Other affiliations:** None provided

Dr. David Martell  
Associate Professor  
Faculty of Forestry  
University of Toronto  
Toronto, On  
M5S 1A1  
tel: 416 978-6960  
fax: 416 978-3834  
em: martell@smokey.forestry.utoronto.ca

Dr. David Martell

**Areas of expertise:** Forestry, Environmental policy, Education

**Biography or credentials:**

David Martell is an Associate Professor in the Faculty of Forestry at the University of Toronto which he joined as a Lecturer in 1974. He first became interested in forest fires at an early age. He completed his B.A.Sc. (1971), M.A.Sc. (1972), and Ph.D. (1975) in the Department of Industrial Engineering at the University of Toronto where he studied Management Science and Operational Research and their application to forest fire management. He worked for the Ontario Department of Lands and Forests as a summer student in the Fire Control Unit in Toronto for several summers beginning in 1970. He joined the Faculty of Forestry at the University of Toronto as a forest fire management specialist in 1974. After he completed his Ph.D. he spent part of the 1975 fire season as a member of a fire crew stationed at Shebandowan in Thunder Bay district. He has worked as a consultant to the Ontario Ministry of Natural Resources and several other government agencies.

His current research interests include the application of operational research and information technology to fire and forest management and the development of decision support systems for fire and forest managers. His publications have appeared in both Forestry (e.g., Canadian Journal of Forest Research and Forest Science) and Operational Research (e.g., INFOR and Operations Research) journals.

**Organization type:** University

**Major activities:** None provided

**Sector of activities:** Research and education

**Other affiliations:** None provided

Dr. Gordon A. McBean  
Assistant Deputy Minister  
Atmospheric Environment Service  
Environment Canada  
4905 Dufferin Street  
Downsview, ON  
M3H 5T4  
tel: 416 739-4770  
613 996-3206  
fax: 416 739-4232  
613 943-1538  
em: gordon.mcbean@ec.gc.ca

Dr. Gordon A. McBean

*Susan*  
*613-739-4773*

**Areas of expertise:** Atmospheric sciences, climate science, climate adaptation, climate policy

**Biography or credentials:**

- ▶ presently Assistant Deputy Minister, Atmospheric Environment Service, Environment Canada
- ▶ Chair, Inter-Agency Committee on the Climate Agenda (sponsored by WMO, ICSU, Unesco, UNEP, IOC, FAO, WHO)
- ▶ Member, ICSU Advisory Committee on the Environment
- ▶ previously, Professor of Atmospheric and Oceanographic Science and Head, Department of Oceanography, University of British Columbia (1988-94)
- ▶ previously, Chair, Joint Scientific Committee, World Climate Research Program (1988-94)

**Organization type:** National Government

**Major activities:** weather and atmospheric environmental prediction, atmospheric science

**Sector of activities:** Environment

**Other affiliations:**

Mr. Doug Miller  
President  
Environics International Ltd.  
33 Bloor Street East, Suite 900  
Toronto, ON  
M4W 3H1  
tel: 416 920-9010  
fax: 416 920-3510  
em: doug\_miller@environics.ca

Mr. Doug Miller

**Areas of expertise:** International/national public opinion and expert views, general policy, environmental policy, education, communications/PR.

**Biography or credentials:**

Doug Miller has been active in environmental issues management and social marketing for the past twenty-five years through positions with private industry, environmental groups and government agencies. In 1978, he founded Synergistics Consulting Limited, an environmental issues management firm, and continued as its President until this year when he assumed his present duties.

In 1987, he formed a joint venture with Environics Research Group Ltd. to conduct national and international public opinion research and expert surveys on environmental and sustainable development topics. Over the past decade, Mr. Miller has established and directed three widely-syndicated tracking surveys - the twice-yearly Environmental Monitor surveys of Canadians, the annual International Environmental Monitor surveys of environmental public opinion in 24 countries, and the twice-yearly GlobeScan surveys of sustainable development experts across OECD countries.

The Environmental Monitor's data base is now the largest in the world on these topics.

Today, Mr. Miller is a leading pollster and commentator on sustainable development topics, regularly briefing government officials and corporate leaders in North America, Europe and Asia on related public opinion and expert views. He then assists organizations convert this understanding of the public environment into effective corporate strategies.

**Organization type:** Private sector.

**Major activities:** Public opinion research and expert surveys on sustainable development subjects in Canada and in 20 other countries.

**Sector of activities:** Research, Environment, Energy, Natural resources, Transportation, Health, Sustainable development.

**Other affiliation:** Board member, Pollution Probe Foundation, Friends of the Earth.

Dr. Charles K. Minns (Ken)  
Bayfield Institute (GLLFAS)  
Fisheries and Oceans Canada  
P.O. Box 5050, 867 Lakeshore Road  
Burlington, ON  
L7R 4A6  
tel: 905-336-4874  
fax: 905-336-6437  
em: minnsk@dfo-mpo.gc.ca

Dr. Charles K. Minns

**Areas of expertise:** Fisheries, Oceans, Freshwaters, Ecosystem health, regional impact assessment, limnology, productivity

**Biography or credentials:**

My main research interests are factors affecting freshwater ecosystems, especially fish. Previously, I have worked on eutrophication, acidification, and a little on contaminants. My activities usually involve systems analysis of problems, modeling, and problem-solving. Currently, my research work is focused on fish-habitat linkages, emphasizing the development of practical habitat assessment tools and area habitat management plans using GIS for regulatory agencies. I am especially interested in the large-scale integration of impacts assessments on aquatic resources. As a spin-off of work on assessing the regional impact of acidic deposition on freshwater resources in eastern Canada, I did several projects examining the potential impacts of climate change on fishery resources. Those studies included modeling of regional redistribution of potential lake fish productivity, an assessment of the potential for fish species range expansions in Ontario, and an assessment of the impact of the range and productivity of Atlantic salmon stocks in eastern Canada. Summer 1997, I co-authored, with Drs. Brian Shuter and Henry Regier, a sectoral report on impacts and adaptation options for Canadian fisheries (marine and freshwater) for Environment Canada's Canada Country Study Phase I.

**Organization type:** National Government

**Major activities:** Research in factors affecting fish and fish habitat, including productivity, habitat, exotics, contaminants, and focused mainly on freshwaters, particularly in the Great Lakes basin

**Sector of activities:** Research

**Other affiliations:** Associate professor (part-time) in Biology Department, McMaster University

Dr. Hugh Morris  
President  
Padre Resource Corporation  
P.O. Box 1205  
Delta, BC  
V4M 3T3  
tel: 604-943-5066  
fax: 604-943-5066  
Em: hugh\_morris@sfu.ca

Dr. Hugh Morris

**Areas of expertise:** Geosciences, general environment, atmospheric sciences, environmental policy

**Biography or credentials:**

Dr. Hugh Morris is Chair of the Canadian Global Change Program's Board for Directors. He holds a Ph.D. in Mining Geology from the University of Witwatersrand, Johannesburg, South Africa and has 44 years of experience in the mineral industry.

From 1962 to 1979 he held a series of positions with Cominco Ltd. in its Exploration and Mining Departments in several Canadian locations, eventually becoming Director, Exploration for its worldwide activities. In 1979 Dr. Morris became associated with the E & B/Geomex Group of affiliated companies in Calgary, initially as President and Chief Operating Officer of Geomex Minerals Ltd., and in 1981, as President and Chief Executive Officer of E & B Canada Resources Ltd. Following the merger of the E&B/Geomex Group and Imperial Metals Corporation of Vancouver in May 1983, he was appointed Chairman and Chief Executive Officer of Imperial Metals and of three public companies within the Imperial Metals Group. He resigned from these positions in February 1993 to pursue other interests. Currently, he is a mineral industry consultant and board member of six Canadian public companies.

Dr. Morris has a demonstrated special interest in international scientific and professional associations. He is past-president of the Geoscience Council of Canada, a past-president of the Geological Association of Canada, and is Chairman of the Board of Directors of the Lithoprobe Project of the Natural Science and Engineering Research Council of Canada. He has sat on the CGCP's Board of Directors since its inception several years ago, and has been Chair since 1993. Dr Morris was also Treasurer of the Canadian Geological Foundation from 1987 to 1996. He is a member of the Geological Society of London, the Institute of Mining and Metallurgy, U.K., the Canadian Institute of Mining and Metallurgy, and a number of other scientific and professional associations. He is a member of the Association of Professional Engineers of British Columbia.

**Organization type:** Private sector

**Major activities:**

**Sector of activities:** Natural resources, environment

**Other affiliations:** See above.

Dr. Lawrence A. Mysak  
Canada Steamship Lines Professor  
Department of Atmospheric and Oceanic Sciences  
McGill University  
805 Sherbrooke St. W.  
Montreal, QC  
H3A 2K6  
tel: 514-398-3768  
fax: 514-398-6115  
em: mysak@zephyr.meteo.mcgill.ca

Dr. Lawrence A. Mysak

**Areas of expertise:** Atmospheric sciences, geosciences, fisheries, oceans, administration, education, arctic climate

**Biography or credentials:**

Lawrence Mysak holds the Canada Steamship Lines Chair of Meteorology at McGill University, and is immediate past Founding Director of the McGill Centre for Climate and Global Change Research. Dr. Mysak is internationally renowned for his extensive applications of mathematics to physical oceanography and his fundamental research on natural climate variability and paleoclimates. He has investigated the influence of El Niño on fish migration, and has modeled the climate of the dinosaur era. He has supervised the research of many graduate and postdoctoral students, and he has been an invited lecturer at scientific meetings, conferences and public forums in 16 countries. Dr. Mysak has published over 150 widely quoted scientific papers, and has co-authored (with P.H. LeBlond) the 600-page treatise "Waves in the Ocean".

In 1986, Dr. Mysak was elected, by the Academy of Science, a Fellow of the Royal Society of Canada (FRSC), and during 1993-96 he served as President of the 900-member Science Academy.

In January 1997, Dr. Mysak was appointed a Member of the Order of Canada (CM)

**Organization type:** University

**Major activities:** Research and teaching, particularly for graduate students

**Sector of activities:** Research, education, media,

**Other affiliations:** None provided

Ken Ogilvie  
Executive Director  
Pollution Probe  
12 Madison Avenue  
Toronto, ON  
M5R 2S1  
tel: 416-926-1907  
fax: 416-926-1601  
em: pprobe@www.pollutionprobe.org  
web: www.pollutionprobe.org

Ken Ogilvie

**Areas of expertise:** Air, transportation, environmental policy, water, sustainable development

**Biography or credentials:**

Ken Ogilvie is the Executive Director of Pollution Probe, one of Canada's most distinguished environmental groups. Ken joined Pollution Probe in October 1995 after serving for almost two years as the Executive Coordinator of the Ontario Round Table on Environment and Economy. His position previous to that was Manager of Policy Coordination for the Ontario Ministry of Environment and Energy. Ken's first job at Pollution Probe was to build a long-term, comprehensive air programme. The programme was developed and is currently being implemented. It has several components, including: smog/particulate controls; air toxics reductions; greenhouse gas reductions; and further acid rain controls to protect sensitive aquatic ecosystems.

Mr. Ogilvie has 20 years of experience in government and institutional positions, ranging from project engineering to policy development. He has had international experience as the Acting Director of the federal Great Lakes Program and as a lecturer on sustainable development institutions, tools and techniques in Malaysia and Romania.

Some of Ken's major accomplishments include:

- Author of the 1987 report of the National task Force on Environment and Economy. This report was submitted to the Canadian Council of Ministers of the Environment as a response to the report of the World Commission on Environment and Development (i.e.; the Bruntland Commission report).
- Production and partial authoring of the 1991 report of the Canadian Environmental Advisory Council titled, "A Protected Areas Vision for Canada". This report was tabled in the House of Commons by the Honourable Jean Charest when he was the federal Minister of the Environment.
- Author and producer of the 1995 report of the Transportation and Climate Change Collaborative titled, "Towards a Sustainable Transportation Strategy for Ontario". This report was submitted to the Honourable Michael Harris, Premier of Ontario, by the Ontario Round Table on Environment and Economy. The report was also tabled in the Ontario Legislature by the Honourable Brenda Elliott, Minister of Environment and Energy.

Ken's academic credentials include a Bachelors of Applied Science (Civil Engineering) from the University of Waterloo, and a Masters of Business Administration from York University.

**Organization type:** NGO

**Major activities:**

**Sector of activities:** Research, Environment, Energy, Transportation, Environmental technology, Environmental issues and policy

**Other affiliations:** None provided.

Prof. José A. Prades  
Professeur et directeur  
GREIGE  
Université du Québec à Montréal  
C.P. 8888, Succ. "Centre Ville"  
Montréal, QC  
H3C 3P8  
tel: 514 987-3000 ext. 4427  
fax: 514 987-6853  
em: prades.jose@uqam.ca

Prof. José A. Prades

**Area of expertise:** General environment, Atmospheric sciences, Energy, General Policy, Environmental policy, Finance/Economics/Trade, Technology, Education, Human Dimensions

**Biography or credentials:**

Author of: (1) Stratégies de gestion des gaz à effet de serre: l'enjeu du transport soutenable (Québec, presses de l'université du Québec. 1998 forthcoming). (2) "Cities, Environment, Development and Sustainable Transportation", in: Urban Transport and the Environment, 1996: 13-24, (With J.-P. Waaub). (3) "Global Environmental Change and Contemporary Society", in: International Sociology, 1998 (forthcoming). (4) "Environmental Sociology: Durkheimian Theoretical Perspectives". 1998. Forthcoming. Guest editor of Environment and Society, a Special Issue of International Sociology. 1998 (forthcoming).

**Organization type:** University

**Major activities:** Interdisciplinary research and teaching

**Sector of activities:** Research, Education

**Other affiliations:** Environment and Society, a research committee of the international Sociological association

Prof. Henry Regier  
Professor Emeritus  
Dept of Zoology  
University of Toronto  
Toronto On  
M5S 1A4  
10 Ernst Street  
Elmira, ON  
N3B 1K5  
tel: 519- 669-5552  
fax: 519-669-1569

Prof. Henry Regier

**Areas of expertise:** Aquatic ecology, Great Lake Basin, temperature sensitivity of fish population parameters, fisheries effects of extreme atmospheric episodes, fisheries adaptation to ecosystemic changes, First Nations fisheries. Biological sciences, fisheries/oceans, environmental policy, population, education.

**Biography or credentials:**

- Professorial positions at Cornell University (1963-1966) and University of Toronto (1966-1995), and visiting professor at several leading universities.
- Commissioner, Great Lakes Fishery Commission, 1980-1989.
- Executive Committee, Great Lakes Fishery Advisory Board, International Joint Commission, 1986-1989.
- President, American Fisheries Society, 1978-1979, and recipient of its Award of Excellence.
- Convened session on fisheries in symposium of ecological effects of climate change convened by R.E. Munn, Toronto 1985
- Participated in Global Climate Change Conference chaired by Stephen Lewis in Toronto, 1988.
- Convened and chaired an international symposium on effects of climate change on fishes, Toronto 1989.
- Expert reviewer of fisheries chapter in 1990 global assessment of IPCC.
- Lead author of fisheries chapter in 1995 global assessment by IPCC.
- Co author of two fisheries related chapters of Canada Country Study for 1997 Kyoto Conference
- Supervised six graduate theses (3MA's, 3 Phd's) related to effects on fishes of climate change.
- Co-taught, with B.J. Shuter, a seniors course on effects of climate change on fishes, University of Toronto, 1990-1995.

**Organization type:** University an private sector.

**Major activities:** None provided

**Sector of activities:** Research, environment, natural resources.

**Other affiliations:**

Professor Emeritus, Dept of Zoology and Environmental Studies, University of Toronto.  
Member of the Board of Directors, not-for-profit Anishinabek/Ontario Fisheries Resource Corporation.

Mr. Angus Ross  
President  
Sorema Management Inc.  
70 York Street, Suite 1520  
Toronto, ON  
M5J 1S9  
tel: 416-364-3048  
fax: 416 364-1788  
em:soremacan@globalserve.net

Mr. Angus Ross

**Areas of expertise:** Causes and economic impact impacts/insurance, insurance, general environment

**Biography or credentials:**

Member: NRTEE

Member: Steering committee of Round Table on Environmental Risk, Natural Hazards and the Insurance Industry.

Frequent speaker/author on environmental issues (mostly climate change) including:  
UNEP 3rd International Round Table on Finance and the Environment  
Univ. of Toronto - Institute for Environmental Studies  
Canadian Wind Energy Association  
Renewable Energy Conference  
CBC radio

Brief to CCME on the financial impact of climate change.

**Organization type:** Private sector

**Major activities:** Reinsurance

**Sector of activities:** Insurance/reinsurance

**Other affiliations:** None provided

Mr. Doug Russell  
GCSI - Global Change Strategies International Inc.  
37 Fuller Street  
Ottawa, ON  
K1Y 3R9  
tel: 613 729-5462  
fax: 613 729-5689  
em: doug.russell@sympatico.ca

Mr. Doug Russell

**Areas of expertise:** atmospheric sciences, general environment, environmental policy

**Biography or credentials:**

Mr. Doug Russell is a partner and co-founder of GCSI - Global Change Strategies International Inc., an Ottawa-based consulting firm dedicated to working with progressive corporate and public sector organizations to respond to the challenges of and opportunities of global change. Prior to moving to the private sector, Mr. Russell was a senior executive in the Canadian government where he led Environment Canada's efforts in the development of Canada's National Action Program on Climate Change, and co-headed the Canadian negotiating team to the UN Framework Convention on Climate Change.

As a partner in GCSI Inc., Mr. Russell has continued to work with companies and governments on the international policy aspects of climate change. Selected clients include the Earth Council, the UN Conference on Trade and Development, Battelle Pacific NW Labs, the Canadian Global Change Program, the North American Commission for Environmental Cooperation, the Auditor General of Canada, and the Center Financial Products of Chicago.

**Organization type:** Private sector

**Major activities:** Consulting

**Sector of activities:** environment

**Other affiliations:** None provided.

Dr. Ian Rutherford  
Manager, Research  
Canadian Institute for Climate Studies,  
University of Victoria,  
130 Saunders Annex,  
PO Box 1700,  
Victoria BC V8W 2Y2

Dr. Ian Rutherford

Residence:  
19 Waterford Way  
Nepean, On  
K2E 7V4  
tel: 613-723-4757  
fax: 613-723-9582  
em: [iruther@istar.ca](mailto:iruther@istar.ca)  
web site: <http://www.cics.uvic.ca>

**Areas of expertise:** Climate modeling, general environment, atmospheric sciences, information.

**Biography or credentials:**

Ian Rutherford is a former Director General of Atmospheric Research and also of Field Services for the Atmospheric Environment Service. He left Environment Canada in 1996 where for the previous few years he had served as DG National Parks and DG State of the Environment Reporting. Ian holds a Ph.D. in Meteorology from McGill University and did research in atmospheric modeling and data assimilation at the Canadian Meteorological Centre for many years. He developed the well known methodology of three-dimensional multi-variate optimum interpolation of prediction errors which was the basis for operational data assimilation at CMC and many other major global weather centres. He is a former member of the Working Group on Numerical Experimentation of the World Climate Research Program. Ian currently manages the Climate Research Network for the Canadian Institute for Climate Studies. This includes the establishment of a Scientific Advisory Panel and the setting up of a Network Support Group responsible for assisting CRN researchers and other users to access and run the models and diagnostic routines or to use model outputs for climate impact studies, etc.

**Organization type:** Private, non-profit.

**Major activities:**

Management of the Canadian Climate Research Network, a network of university based researchers on climate system functioning, climate modeling and climate prediction, funded by the Atmospheric Environment Service through CICS and the University of Victoria.

**Sector of activities:** Research, education, service, funding agency, consulting.

**Other affiliations:** CMOS, AMS.

Dr. David W. Schindler  
University of Alberta  
Dept. of Biological Sciences  
Zoology Building  
Edmonton, AB  
T6G 2E1  
tel: 403 492-1291  
fax: 403 492-9234  
em: d.schindler@ualberta.ca

Dr. David W. Schindler

**Areas of expertise:** General environment, biological sciences, biogeochemistry, limnology, air-land-water interactions, landscape changes, freshwaters.

**Biography or credentials:**

I have no credentials that relate specifically to climate change.

I have written several papers on the subject in Science, Bioscience, Limnology and Oceanography, Nature and Hydrologic Processes.

Awards include: Rhodes Scholarship, Rigler Medal, Canadian Society of Limnologists, Hutchinson Medal, American Society of Limnology and Oceanography, Naumann-Thienemann Medal, International Limnological Society, Romanowski Medal, Royal Society of Canada, Manning Award for Innovation, 1991 Stockholm Water Prize, plus a number of smaller awards. I am a fellow of the Royal Society of Canada.

**Organization type:** University.

**Major activities:** Teaching at undergrad/grad/postgrad levels.

**Sector of activities:** Research and education. A large university that does something in most of the categories.

**Other affiliations:** None provided.

Dr. John W.B. Stewart  
Dean  
College of Agriculture  
University of Saskatchewan  
51 Campus Drive  
Saskatoon, SK  
S7N 5A8  
tel: 306-966-4050  
fax: 306-966-8894  
em: stewart@fc.usask.ca

Dr. John W.B. Stewart

**Areas of expertise:** C,N,S and P cycling in terrestrial ecosystems(leads to C-mitigation, land use options, climatic impacts on regions). Biological sciences, agriculture, environmental policy, education.

**Biography or credentials:**

**Education:**

- B.Sc. (Hons.), 1958, B.Agr. (Hons.), 1959, Queen's University, Belfast
- Ph.D., 1963, Soil Science: D.Sc., Queen's University, Belfast, 1988, Science

**Honours and Awards:**

- Fellow, Canadian Society of Soil Science, 1987
- Fellow, Wissenschaftskolleg zu Berlin ( Berlin Inst. for Advan. Study), 1989-90
- Fellow, American Society of Agronomy , 1990
- Fellow, Soil Science Society of America, 1990

**Professional Activities**

- Univ.of Saskatchewan. Assist. Professor,1966-1970;
- Associate Professor, 1970-1976;
- Professor, Tenured, 1976-81, Department of Soil Science  
Duties:-Research, teaching and Extension in Soil Fertility, Nutrient Cycling,  
Environmental and Sust. Agr.
- Professor and Head, Dept of Soil Science,1981-1989,
- Director, Saskatchewan Institute of Pedology 1981-1989.
- Dean, College of Agriculture, appointed July 1,1989- present.

In this position I coordinate the activities of 106 faculty and research scientists(total staff 400 approximately), and the programs of 760 undergraduate and 240 postgraduate students. The college has 11 research centres or farms on 3161 ha of land and a teaching and research budget approaching \$ 30 M.

**Research** Earlier studies on P and S cycling in Agroecosystems lead to the documentation and development of conceptual and predictive mathematical simulation models P and S cycling in soil-plant systems. These studies now have progressed to examination of sustainability of land in tropical and temperate regions under different systems of management. A recent focus has been on the use of this information in predicting the effects of climatic and land use changes on ecosystem properties. Current work ranges from an examination of controls on trace gas emission in northern wetlands to an examination of soil quality in the tropics using key elements as indicators

**Organization type:** University.

**Major activities:** Education Research and Extension in Agriculture.

**Sector of activities:** Research, education, environment, energy, natural resources, library.

**Other affiliations:** Committee on Problems of the Environment, Past-President), IAI (International Institute for Global Change Research, Chair, Scientific Advisory Committee).

Dr. Robert B. Stewart  
Global Change Science Advisor  
Science Branch  
Canadian Forestry Service  
Natural Resources Canada  
580 Booth St. - 7th Floor - Sir William Logan Bldg.  
Ottawa, ON  
K1A 0E4  
tel: 613 947-9014  
fax: 613 947-9090  
em: RSTEWART@AM.NCR.FORESTRY.CA

Dr. Robert B. Stewart

**Areas of expertise:** General environment, atmospheric sciences, forestry, agriculture, climate change impact

**Biography of credentials:**

I am a geographer and climatologist by training. My main area of expertise lies in the area agriculture and forest climate change impact assessment. I have been involved in a number of studies related to climatic change impact on agricultural systems in Saskatchewan, Ontario, Quebec and the Maritimes. I have also been involved in a number of international climate change projects linked to the Intergovernmental Panel on Climate Change, the International Institute for Applied Systems Analysis (Austria), and the Scientific Committee on Problems of the Environment (SCOPE). I have written several scientific papers on the implications of climate change for agriculture and forestry. More recently, I participated as a lead author contributing to the IPCC Working Group II - Socioeconomic Impacts of Climate Change on Forestry chapter for the IPCC Second Assessment Report released in early 1996, and have participated in a number science panel reviews for the InterAmerican Institute for Global Change Research related to research funding.

**Organization type:** National Government

**Major activities:** national forest policy, forest research - science and technology development. In my job as the global change science advisor within the CFS, I am responsible for providing policy advice on all global change related issues and coordinating, at the national and international level, all department activity related to climate change and forest meteorological and climatological research involving personnel at 5 CFS research centers across the country.

**Sector of activities:** Manufacturing, environment, energy, natural resources, environmental technology

**Other affiliations:** None provided.

Mr. Ralph Torrie  
Partner  
Torrie Smith and Associates  
255 Centrum Blvd., 3rd Fl  
Orleans, ON  
K1E 3V8  
tel: 613-824-3045  
fax: 613-824-3297  
em: torrsmith@web.net  
web site:

Mr. Ralph Torrie

**Areas of expertise:** emission reduction strategies and policies, especially related to energy and local government. General environment, energy, general policy, environmental policy, security, finance/economics/trade, technology, human dimensions, information.

**Biography or credentials:**

Ralph Torrie is one of Canada's leading energy analysts and proponents of sustainable development. His entrepreneurial and consulting experience covers a wide range of initiatives in research, organizational and business development, and facilitation of national and international environmental projects. He has been involved in the identification and analysis of greenhouse response strategies since 1988 when he drafted the 20% emission reduction target that has become known around the world as the "Toronto target". Since then, he has been engaged in numerous consultancies related to developing response strategies to global warming. His firm, Torrie Smith Associates, acts as the principal consultants for the Cities for Climate Protection Campaign of the International Council for Local Environmental Initiatives. Torrie Smith Associates has also developed a suite of software products to help governments and private companies track their greenhouse gas emissions and develop emission reduction strategies. Mr. Torrie is the former assistant coordinator of the Energy Research Group of the International Development Research Centre and the United Nations University.

**Organization type:** Private sector, NGO, International organization.

**Major activities:** Policy research and analysis, software development and marketing.

**Sector of activities:** Research, education, environment, energy, natural resources, transportation, general technology, environmental technology .

**Other affiliations:** None provided

Dr. Geoffrey Wall  
Faculty of Environmental Studies  
University of Waterloo  
Isaiah Bowman Bldg.  
Waterloo, ON  
tel: 519 885-1211 Ext. 3609  
fax: 519 746-2031  
em: gwall@watserv1.uwaterloo.ca

Dr. Geoffrey Wall

**Areas of expertise:** Tourism, recreation, impact assessment, general environment, education, human dimensions.

**Biography or credentials:**

Conducted and/or supervised a variety of investigations of impacts of climate change on tourism and recreation e.g. ski industry, national parks, wetlands, national overviews for Canada and USA. Prepared review document on policy issues in Great Lakes Basin. Participant in Mackenzie Basin Project. Edited major international climate change conference proceedings on: hydrology and water resources, the Great Plains, Pacific Forests, the North. Contributed to the preparation of the Adaptation Document prepared through SEIC Committee. Member of Socio-economic Impacts Committee of Canadian Climate Program.

**Organization type:** Other public sector, university.

**Major activities:** Research and education.

**Sector of activities:** Research, education, environment, library

**Other affiliations:** Member of Socio-economic Impacts Committee (if it still exists) of Canadian Climate Program; Affiliated with Climate Adaptation group which has recently relocated to the University of Waterloo.

Dr. Andrew Weaver  
University of Victoria  
School of Earth & Ocean Sciences  
P.O. Box 3055  
Victoria, BC  
V8W 3P6  
tel: (250) 472-4001  
fax: (250) 472-4004  
em: weaver@ocean.seos.uvic.ca  
website: <http://wikyonos.seos.uvic.ca>

Dr. Andrew Weaver

**Areas of expertise:** General environment, Atmospheric sciences,

**Biography or credentials:** None provided

**Organization type:** University

**Major activities:** Research and education

**Sector of activities:** Research, Education, Environment

**Other affiliations:** None provided

Dr. Elaine Wheaton  
Climatologist, Lead Scientist  
Climatology Section  
Saskatchewan Research Council  
15 Innovation Blvd.  
Saskatoon, SK  
S7N 2X8

tel: 306 933-8179

fax: 306 933-7446

em: wheaton@src.sk.ca

web site: www.src.sk.ca

For the Prairie Adaptation Network: [www.src.sk.ca/pan/pan.html](http://www.src.sk.ca/pan/pan.html)

Dr. Elaine Wheaton

**Areas of expertise:** Impacts, adaptation, forest (fire, productivity), agriculture, biodiversity, ecosystems, drought, hazards, physical geography, atmospheric sciences, general environment.

**Biography or credentials:**

- Co-founder of the Prairie Adaptation (to Climate Variations) Network
- Coauthor of the agriculture chapter of the IPCC SAR 1996 (Baethgen et al. 1996).
- Author of the Forest Chapter and coauthor of the Energy Chapter in the Canada Country Study, Prairie and Northern Region Report, 1997.
- Authored about 12 journal articles on climate impact assessment and related topics.
- Participated in the China/Canada Joint Workshops on Climate Change (1992 and 1994 in China).
- Gave many invited presentations to Conferences.
- Member of the Canadian Team to IIASA's Climatic Variations and Agriculture Program (Williams et al. 1988).
- Fellow, and past member of the Board of Governors, Royal Canadian Geographical Society.
- Fellow, Royal Meteorological Society.
- Have been a thesis committee member (M.Sc. and PhD students) and an external examiner (an M.Sc. student and a PhD student).
- Received the YWCA 1997 Women of Distinction Award in Science and Technology.

**Organization type:** Crown corporation.

**Major activities:** Research, development and technology transfer.

**Sector of activities:** Research and environmental technology.

**Other affiliations:** Adjunct Professor, Geography Dept. and Member, College of Grad. Studies, University of Saskatchewan.

**ANNEX B  
CANADIAN STAKEHOLDERS RECORDS**

**STAKEHOLDERS**  
**Business**

Alliance for Responsible Environmental Alternatives (AREA)

Alliance for Responsible Environmental Alternatives (AREA)

1100 Canada Trust Tower

10104 - 103 Ave

Edmonton, AB

T5J 0H8

tel: (403) 944-0695

fax: (403) 441-9849

em: vant.tom@sincruide.com

Web: www.areacanada.com

**Contact person:**

Mr. Tom Vant

title: Executive Secretary

tel: (403) 944-0695

fax: (403) 441-9849

em: vant.tom@sincruide.com

**Organization type:** Association privately funded. AREA is a coalition with individuals seconded to the coalition by members. As such, AREA has no employees. The number of people working on climate change issues varies. However, there are always at least two people.

**Sector of activities:** Manufacturing, environment, energy, natural resources, transportation.

**Current involvement:** Consult the website.

**Areas of expertise:** energy, general policy, environmental policy, administration, finance/economics/trade.

**Stated position:** Please refer to the website at [www.areacanada.com](http://www.areacanada.com) for a copy of our position paper.

Canadian Chemical Producers' Association  
Suite 805, 350 Sparks Street  
Ottawa, ON  
K1R 7S8  
tel: 613-237-6215  
fax: 613-237-4061  
em:  
Web: <http://www.ccpa.ca>

Canadian Chemical Producers' Association

**Contact person:**  
Bruce Caswell  
Tel: 613-237-6215  
Fax: 613-237-4061  
Em: [bcaswell@ccpa.ca](mailto:bcaswell@ccpa.ca)

**Organization type:** Association with 22 employees and 1 on climate change.

**Sector of activities:** Environment.

**Current involvement:** Encouraging members to participate in the VCR. Reporting emissions and projections of GHGs as part of annual emissions reporting. Tracking energy efficiency.

**Areas of expertise:** General policy, environmental policy .

**Stated position:** None provided

Canadian Electricity Association  
66 Slater St., Suite 1210  
Ottawa, ON  
K1P 5H1  
tel: 613 230-9263  
Fax: 613 230-9326  
em:  
web: <http://www.canelect.ca>

Canadian Electricity Association

**Contact person:**

M. Pierre Guimond  
Senior Advisor  
Government Relations  
tel: 613 230-9876  
fax: 613 230-9326  
em: [guimond@canelect.ca](mailto:guimond@canelect.ca)

or

Mr. Roy G. Staveley  
Vice President, Public Affairs & Environment  
tel: 613-230-9047  
fax: 613-230-9326  
cell: 613-292-2238  
pag: 613-786-5984  
em: [staveley@canelect.ca](mailto:staveley@canelect.ca)

**Organization type:** Association with a staff of 35 employee and an annual budget of \$7 millions. 2 people work full time on global climate change issues plus resources loaned from members of association with annual budget \$200, 000.

**Sector of activities:** Energy.

**Current involvement:** Represent the industry on the Canadian Delegation to the international negotiations, advocate industry views on the issue and prepare and submit to government a briefing paper last summer. ECR Program of CEA also a contribution as well as work on domestic consultations processes leading to an implementation strategy for Canada.

**Areas of expertise:** Energy, general policy, environmental policy, finance/economics/trade, technology, communications/PR concerning electricity and energy. International/strategic.

**Stated position:** Yes, the Briefing paper referred to above and available on the CEA web site provides industry views on climate change.

Canadian Institute for Business & Environment  
506 Victoria Ave.  
Montreal, QC  
H3Y 2R5  
tel: (514) 369-0230  
fax: (514) 369-3282  
em: cibe@web.net  
website: none

Canadian Institute for Business & Environment

**Contact person:**

Mr. Gary Gallon  
President  
506 Victoria Ave.  
Montreal, QC  
H3Y 2R5  
tel: (514) 369-0230  
fax: (514) 369-3282  
em: cibe@web.net

**Organization type:** 3 employees with a \$230,000 annual budget. One employee works on global climate changes issues with a \$12,000 annual budget.

**Sector of activities:** None provided.

**Current involvment:**

Provide research on economic benefits of global warming gases reduction related to both reduced energy purchases and new technology innovation and export.

**Areas of expertise:** None provided.

**Stated position:**

The position of our organization is that the agreement reached at the UN Conference on Environment and Development at the Earth Summit in Rio de Janiero in June of 1992 should be abided by Canada and the other OECD nations. That there will be some economic dislocation, but not so negative as to be prohibitive. There are countervailing economic benefits that will come into play and moderate the initial investments in reducing global warming gases.

Canadian Wind Energy Association  
National Office  
Suite 100, 3553 - 31 Street NW  
Calgary, Alberta  
T2L 2K7  
tel: 1-800-9CanWEA  
fax: 403-282-1238  
em: canwea@cadvision.com  
web: <http://canwea.ca>

Canadian Wind Energy Association

**Contact person:**

Mr. Jeff Passmore  
Passmore Associates International  
Suite 600, 99 Bank Street  
Ottawa, Ontario  
K1P 6B9

**Organization type:** Association

**Sector of activities:** Research, Education, Environment, Energy, Natural resources, Media

**Current involvement:** 1 employee, with an annual budget of \$100,000, with numerous part-time or volunteers working on the climate change issue. Participation on several climate change-related committees.

**Activities:** Not provided

**Areas of expertise:** General environment, Atmospheric sciences, Energy, General Policy, Environmental policy, Education, Communications/PR, Information

**Stated position:** Not provided, see web site for related positions

Insurance Bureau of Canada  
151 Yonge Street, Suite 1800  
Toronto ON  
M5C 2W7  
tel: 416-362-2031  
fax: 416-362-5952  
em: webmast@ibc.ca  
web: http://www.ibc.ca

Insurance Bureau of Canada

**Contact person:**

Mr. Jim Harries  
tel: 416-362-2031  
fax: 416-361-5952  
em: jharries@ibc.ca

**Organization type:** Association with approximately 150 employees, with a total budget of \$20M per year. 1 or 2 staff working specifically on climate change file. IBC has estimated that \$500,000 of their budget can be associated with climate change work.

**Sector of activities:** Research, education, lobbying

**Current involvement:** Our primary interest is in the area of catastrophic loss mitigation

**Areas of expertise:** insurance, general policy, law, finance/economics/trade, communications/PR

**Stated position:** No position by the IBC as such, but many of our members are signators to the UNEP Statement of Environmental Commitment by the Insurance Industry

**STAKEHOLDERS**  
**Civil Society**

Canadian Energy Research Institute (CERI)  
3512-33 Street, N.W., Ste 150  
Calgary, AB  
T2L 2A6  
tel: 403-282-1231  
fax: 403-284-4181  
em: ceri@ceri.ca

Canadian Energy Research Institute (CERI)

**Contact person:**  
Mr. M. Doug Bruchet  
Environment-Energy Research  
tel: 403 282-1231  
fax: 403 284-4181  
em: ceri@ceri.ca

**Organization type:** Institute of 40 employees with a \$1.3 million annual budget and 5 people working on climate change.

**Sector of Activities:** Research, education, environment, energy, service, library.

**Current involvement:** Conferences, seminars, panels.

**Areas of expertise:** Energy conferences and training, energy, environmental policy, finance/economics/trade

**Stated position:** None provided.

Canadian Center for Policy Alternatives  
804-251 Laurier Ave. West,  
Ottawa, ON K1P 5J6  
tel: 613-563-1341  
fax: 613233-1458  
em: [ccpa@policyalternatives.ca](mailto:ccpa@policyalternatives.ca)  
Web: <http://www.policyalternatives.ca>

Canadian Center for Policy Alternatives

**Contact person:**

Bruce Campbell  
Executive Director  
tel: 613-563-1341  
fax: 613233-1458  
em: [brucec@policyalternatives.ca](mailto:brucec@policyalternatives.ca)

**Organization type:** NGO, 10 full-time employees, with a budget of \$900,000.

**Sector of activities:** Research, Education

**Current involvement:** The Canadian Center for Policy Alternatives has recently prepared its *Interim Report of the Environment Group, Alternative Federal Budget, 1998*, which highlight the importance of Canada meeting its climate change commitments.

**Activities:** To achieve its ends the CCPA publishes research reports, sponsors conferences, organizes briefings and provides informed comment on the issues of the day from a non-partisan perspective.

**Areas of expertise:** Finance/Economics/Trade, general policy

**Stated position:** The *Alternative Federal Budget* provides the position of the Canadian Center for Policy Alternatives on climate change issues. It is available on the Web site noted above.

Canadian Institute for Environmental Law and Policy

Canadian Institute for Environmental Law and Policy

517 College Street, Suite 400

Toronto, Ontario, M6G 4A2

Tel: (416) 923-3529

Fax: (416) 923-5949

E-mail: [cielap@web.net](mailto:cielap@web.net)

Home Page: <http://www.web.net/cielap>

**Contact person:**

Mr. Jack Gibbons

Senior Economic Advisor

tel: 416 923-3529

fax: 416 923-5949

em: [cielap@web.net](mailto:cielap@web.net)

**Organization type:** 6 core staff, 2 contract, 10 Research Associates, 2 employees working on climate change issues, total annual budget of \$450,000

**Sector of activities:**

**Current involvement:**

The Canadian Institute for Environmental Law and Policy is currently involved in several projects regarding climate change. First, we are a core member of the Ontario Clean Air Alliance (OCAA). The objective of the OCAA is to ensure that a system of emission caps is in place in the province of Ontario prior to the introduction of competition in the electricity market (without such regulations, air pollution will increase dramatically when competition is introduced).

Second, we have been part of the international negotiations leading up to the Kyoto conference in December.

Third, we are in the midst of finalizing a paper on the role of municipal waste management practices in reducing greenhouse gas emissions, particularly methane.

**Activities:** Not provided

**Areas of expertise:** Not provided

**Stated position:** Not provided

David Suzuki Foundation  
Suite 219, 2211 West 4th Avenue  
Vancouver, BC  
V6K 4S2  
tel: 604 732-4228  
fax:604 732-0752  
em:climate@davidsuzuki.org  
web:http://www.davidsuzuki.org/

David Suzuki Foundation

**Contact person:**

Dr. Jim Fulton  
Executive Director  
tel: 604 732-4228  
fax:604 732-0752  
em: climate@davidsuzuki.org

**Organization type:** NGO, 12 employees, \$1.8M total annual budget, 6 employees are on the climate file with a budget of \$900,000

**Sector of activities:** Research, education, environment

**Current involvement:** primarily education campaign

**Areas of expertise:** general environment, atmospheric sciences, forestry, fisheries, oceans, environmental policy

**Stated position:** The goal of the David Suzuki Foundation's Climate Change Program is to raise awareness about the urgent need to reduce human produced greenhouse gas emissions. The main cause of climate change is the combustion of fossil fuels. Because our economy is dependent on the production and consumption of fossil energy, reducing emissions will require a fundamental shift in both out thinking and our economic activities. Making the switch from fossil fuels won't be easy. Corporate resistance, public awareness, government reluctance, large investments in energy-inefficient infrastructure and technological challenges all present serious barriers.

See web site for more details.

Inter-Church Committee on Ecology  
Taskforce on Churches & Corporate Responsibility  
129 St. Clair Ave. W  
Toronto, ON  
M4V 1N5  
tel: 416-923-1758  
Fax: 416-927-7554  
em: tccr@web.net

Inter-Church Committee on Ecology

**Contact Person:**

Dr. David Hallman  
Co-chair TCCR  
Energy & Environment Offices  
United Church of Canada  
3250 Bloor St. W  
Toronto, ON  
M8X 2Y4  
Tel: 416-231-7680 x 5051  
Fax: 416-232-6005  
em: dhallman@web.net

**Organization type:** Ecumenical coalition, approximately 3 full-time employee equivalents with an overall budget of \$180,000 per year, although as many as 4 different people are involved in the climate change issues on part-time a basis.

**Sector of activities:** Environment, corporate responsibility

**Current involvement:** consultation events, information for churches, meetings with government and industry

**Areas of expertise:** Environmental policy, forestry, human dimensions, finance/economics/trade

**Stated position:** The World Council of Churches has been active in raising the ethical dimensions of climate change for ten years. Recently, the WCC initiated a petition campaign in which churches in 23 industrial countries gathered hundreds of thousands of signatures from church members calling on their governments to support a strong treaty in Kyoto which would lead to substantial reductions in emissions.

International Center for Local Initiatives on the Environment (ICLEI)

International Center for Local Initiatives on the Environment (ICLEI)

8th Floor East Tower

Toronto City Hall

100 Queen's Street West

Toronto, ON

tel: 416-392-1480

fax: 416 392-1478

em: [ccp@iclei.org](mailto:ccp@iclei.org)

web: <http://www.iclei.org/CO2>

**Contact person:**

Gabriella Kalapos

Project Manager

Cities for Climate Protection Campaign

tel: 416 392-1475

fax: 416 392-1478

em: [gkalapos@iclei.org](mailto:gkalapos@iclei.org)

or

Philip Jessup

Director

Cities for Climate Protection Campaign

same address as above

phone: 416-392-1480

fax: 416-392-1478

email: [pjessup@iclei.org](mailto:pjessup@iclei.org)

**Organization type:** International organization with 15 employees in Toronto's office and about 30 in all other offices in the world (Freiburg, Germany; Tokyo, Japan; Santiago, Chile; Harare, Zimbabwe). The budget varies each year and 4 people in the Toronto office work on climate changes, again with a varying budget

**Sector of activities:** Research, education, environment, energy, transportation. We work with local governments to help them reduce their energy use.

**Current involvement:**

The Cities for Climate Protection Campaign works with local governments around the world to help them reduce their energy use. The campaign presently has 182 participant cities worldwide, who represent 5% of global CO2 emissions. The mission of the campaign is to slow down the earth's warming trend.

**Areas of expertise:** Atmospheric sciences, health (the effects of climate change on human health)  
Energy .

**Stated position:** not provided

Pollution Probe  
12 Madison Avenue  
Toronto, ON  
M5R 2S1  
tel: 416-926-1907  
fax: 416-926-1601  
em: pprobe@www.pollutionprobe.org  
web: www.pollutionprobe.org

Pollution Probe

**Contact person:**

Mr. Ken Ogilvie / Ron Nielsen  
Executive Director / Director, Air Programme  
tel: 416 926-1907  
fax: 416 926-1601  
em: pprobe@web.net / rnielsen@web.net

**Organization type:** NGO of 12 employees, 3 on climate change

**Sector of activities:** Research, Environment, Energy, Transportation, Environmental technology, Environmental issues and policy

**Current involvement:** Building awareness, some advocacy, demonstrating key linkages to related issues, e.g.; transportation, smog/air quality.

**Area of expertise:** General environment, general policy, environmental policy.

**Stated position:** Not provided

**ANNEX C**  
**Tombstone information**

Those who have answered the questionnaire appear in bold characters

## CANADIAN EXPERTS

**Dr. David V. Bates**  
Professor Emeritus of Medicine  
Dept. Of Health Care & Epidemiology  
University of British Columbia  
5804 Fairview Avenue  
Vancouver, B.C.  
V6T 1Z3  
tel: 604-288-0484  
fax: 604-288-4412  
em: dvbates@msn.com

**Dr. Michael Brklacich**  
Assistant Professor  
Carleton University  
Dept. of Geography  
1125 Colonel By Drive - Leob Bldg. - Rm B349  
Ottawa ON  
K1S 5B6  
tel: 613 520-2600 x.7553  
fax: 613 520-4301  
em: mbrklac@ccs.carleton.ca

**Mr. Jim Bruce**  
1875 Juno Avenue  
Ottawa, ON  
K1H 6S6  
Tel: 613 731-5929  
Fax: 613 731-3509  
em: jpbruce@sympatico.ca

**Dr. Tom Brydges**  
Canada Centre for Inland Waters  
Ecological Monitoring Coordinating Office  
867 Lakeshore Rd., PO Box 5050  
Burlington, ON  
L7R 4A6  
tel: 905 336-4410  
fax: 905 336-4499  
em: tom.brydges@cciw.ca

**Dr. Stewart J. Cohen**  
a) Research Scientist  
Environmental Adaptation Research Group  
Environment Canada  
b) Senior Associate  
University of British Columbia  
Sustainable Development Research Institute  
B5-2202 Main Mall  
Vancouver, BC  
V6T 1Z4  
tel: (604) 822-1635  
(604) 822-8198 secretary  
fax: (604) 822-9191  
em: scohen@sdri.ubc.ca

**Dr. Harold Coward**  
University of Victoria  
Centre for Stud. in Religion & Soc.  
P.O. Box 3045  
Victoria, BC  
V8W 3P4  
tel: 250 721-6325  
fax: 250 721-6234  
em: csrs@uvvm.uvic.ca

**M. Philippe Crabbé**  
Director  
IREE  
University of Ottawa  
5 Calixa Lavallée, Box 450, Stn. A  
Ottawa, ON  
K1N 6N5  
tel: (613) 562-5874  
613 562-5895  
fax: (613) 562-5873  
613 564-6716  
em: crabbe@uottawa.ca

**Alan Dalglish**  
Retired Senior research Officer NRC  
237 Valley Ridge Green, NW  
Calgary, Alberta  
T3B 5L6  
tel: (403) 286-2177  
fax: (403) 286-9156  
em: dalglish@freenet.calgary.ab.ca

**Ms. Aldyen Donnelly**  
Greenhouse Emissions Consortium (GEMCo)  
Suite 101, 1965 West 4th Ave  
Vancouver, BC  
V6J 1M8  
tel: 604 878-3658  
fax: 604 731-3382  
em: aldyen@mindlink.bc.ca

**Mr. Richard Gilbert**  
Centre for Sustainable Transportation  
15 Borden Street  
Toronto, ON  
M5S 2M8  
tel: 416 923-8839  
fax: 416 923-6531  
em: 72114.611@compuserve.com

**Mr. Erik Haites**  
Margaree Consultants Inc.  
145 King St. West, Suite 1000  
Toronto, ON  
M5H 3X6  
tel: 416 369-0900  
fax: 416 369-0922  
em: ehaites@hookup.net

**Dr. F. Kenneth Hare**  
301 Lakeshore Road West  
Oakville, ON  
L6K 1G2  
tel: 905 849-1374  
fax: 905 849-4954  
em: fkhare@pathcom.com

**Dr. Prof. L.D.D. Harvey**  
Department of Geography  
Sidney Smith Hall, 100 St. George Street  
University of Toronto  
Toronto, ON  
M5S 1A1  
Tel: (416) 978-1588  
Fax: (416) 978-6729  
Em: harvey@geog.utoronto.ca

**Dr. Richard Haworth**  
Director General  
Sedimentary & Marine Geoscience  
Natural Resources Canada  
601 Booth St. - Room 216  
Ottawa, ON  
K1A 0E8  
tel: 613 995-2340  
fax: 613 996-6575  
em: haworth@gsc.emr.ca

**Dr. Henry Hengeveld**  
Advisor  
Carbon Dioxide Related Matters  
Atmospheric Environment Service  
4905 Dufferin St.  
Downsview, ON  
M3H 5T4  
tel: 416 739-4323  
fax: 416 739-5700  
em:henry.hengeveld@ec.gc.ca

**Mr. Robert Hornung**  
Climate Change Program Director  
Pembina Institute  
251 Laurier Ave., W. Suite 500  
Ottawa, ON  
K1P 5J6  
tel: 613-235-6288  
fax: 613-235-2190  
em: rhornung@web.net

**John Last MD**  
Emeritus Professor of Epidemiology  
Faculty of Medicine  
University of Ottawa  
451 Smyth Road  
Ottawa, Canada, K1H 8M5  
tel: (613) 562-5800 Ext 8285  
fax: (613) 562-5465  
Home Phone (613) 233-4859  
em: last@zeus.med.uottawa.ca

**Dr. William Leiss**  
Queen's University  
School of Policy Studies  
Policy Studies Bldg., Rm 418  
Kingston, ON  
K7L 3N6  
tel: 613 545-6832  
fax: 613 545-6630  
em: leissw@qucdn.queensu.ca

**Dr. Michael Margolick**  
The ARA Consulting Group  
Suite 305, 355 Burrard Street  
Vancouver, BC  
V6C 2G8  
tel: (604) 681-7577  
fax: (604) 669-7390  
em: margolic@aragroup.ca

**Dr. David Martell**  
Associate Professor  
Faculty of Forestry  
University of Toronto  
Toronto, ON  
M5S 1A1  
tel: 416 978-6960  
fax: 416 978-3834  
em: martell@smokey.forestry.utoronto.ca

**Dr. Gordon A. McBean**  
Assistant Deputy Minister  
Atmospheric Environment Service  
Environment Canada  
4905 Dufferin Street  
Downsview, ON  
M3H 5T4  
tel: 416 739-4770  
613 996-3206  
fax: 416 739-4232  
613 943-1538  
em: gordon.mcbean@ec.gc.ca

**Ken McCreedy**  
McCreedy & Associates Ltd.  
310 - 1167 Kensington Crescent NW  
City:  
Postal Code:  
tel: 403-543-7243  
fax: 403-543-7232  
em: ken.mccreedy@cadvision.com  
website:

**Dr. Norman McFarlane**  
Numerical Modelling & Diagnostic Station  
Canadian Climate Centre  
4905 Dufferin St.  
Downsview, ON  
M3H 5T4  
tel: 250-472-7303  
fax:  
em:

**Mr. Doug Miller**  
President  
Envionics International Ltd.  
33 Bloor Street East, Suite 900  
Toronto, ON  
M4W 3H1  
tel: 416 920-9010  
fax: 416 920-3510  
em: doug\_miller@envionics.ca  
**Dr. Charles K. Minns (Ken)**  
Bayfield Institute (GLLFAS)  
Fisheries and Oceans Canada  
P.O. Box 5050, 867 Lakeshore Road  
Burlington, ON  
L7R 4A6  
tel: 905-336-4874  
fax: 905-336-6437  
em: minnsk@dfo-mpo.gc.ca

**Dr. Hugh Morris**  
President  
Padre Resource Corporation  
P.O. Box 1205  
Delta, BC  
V4M 3T3  
tel: 604-943-5066  
fax: 604-943-5066  
Em: hugh\_morris@sfu.ca

**Dr. Lawrence A. Mysak**  
Canada Steamship Lines Professor  
Department of Atmospheric and Oceanic Sciences  
McGill University  
805 Sherbrooke St. W.  
Montreal, QC  
H3A 2K6  
tel: 514-398-3768  
fax: 514-398-6115  
em: mysak@zephyr.meteo.mcgill.ca

**Mr. Ken Ogilvie**  
Executive Director  
Pollution Probe  
12 Madison Ave.  
Toronto, ON  
M5R 2S1  
tel: 416-926-1907  
fax: 416-926-1601  
em: pprobe@web.net

**Prof. José A. Prades**  
Professeur et directeur  
GREIGE  
Université du Québec à Montréal  
C.P. 8888, Succ. "Centre Ville"  
Montréal, QC  
H3C 3P8  
tel: 514 987-3000 ext. 4427  
fax: 514 987-6853  
em: prades.jose@uqam.ca

**Prof. Henry Regier**  
Professor Emeritus  
Dept of Zoology  
University of Toronto  
Toronto On  
M5S 1A4  
10 Ernst Street  
Elmira, ON  
N3B 1K5  
tel: 519- 669-5552  
fax: 519-669-1569

**Prof. John Robinson**  
Director  
Sustainable Development Research Institute  
University of British Columbia  
Hut B5 Main Mall  
Vancouver, BC  
V6T 1Z4  
tel: 604 822-8198  
(604) 241-2678  
fax: 604 822-9191  
em: sdri@sdri.ubc.ca or johnr@sdri.ubc.ca

**Mr. Angus Ross**  
President  
Sorema Management Inc.  
70 York Street, Suite 1520  
Toronto, ON  
M5J 1S9  
tel: 416-364-3048  
fax: 416 364-1788  
em:soremacan@globalserve.net

**Mr. Doug Russell**  
GCSI - Global Change Strategies International  
Inc.  
37 Fuller Street  
Ottawa, ON  
K1Y 3R9  
tel: 613 729-5462  
fax: 613 729-5689  
em: doug.russell@sympatico.ca

**Dr. Ian Rutherford**  
Manager, Research  
Canadian Institute for Climate Studies,  
University of Victoria,  
130 Saunders Annex,  
PO Box 1700,  
Victoria BC V8W 2Y2  
Residence:  
19 Waterford Way  
Nepean, On  
K2E 7V4  
tel: 613-723-4757  
fax: 613-723-9582  
em: iruther@istar.ca  
web site: <http://www.cics.uvic.ca>

**Dr. David W. Schindler**  
University of Alberta  
Dept. of Biological Sciences  
Zoology Building  
Edmonton, AB  
T6G 2E1  
tel: 403 492-1291  
fax: 403 492-9234  
em: d.schindler@ualberta.ca

**Dr. John Shaw**  
Atlantic Geoscience Center  
Bedford Institute of Oceanography  
P.O. Box 1006  
Dartmouth, NS  
B2Y 4A2  
tel:  
fax:  
em: shaw@agcrr.bio.ns.ca

**Dr. John W.B. Stewart**  
Dean  
College of Agriculture  
University of Saskatchewan  
51 Campus Drive  
Saskatoon, SK  
S7N 5A8  
tel: 306-966-4050  
fax: 306-966-8894  
em: stewart@fc.usask.ca

**Dr. Robert B. Stewart**  
Global Change Science Advisor  
Science Branch  
Canadian Forestry Service  
Natural Resources Canada  
580 Booth St. - 7th Floor - Sir William Logan  
Bldg.  
Ottawa, ON  
K1A 0E4  
tel: 613 947-9014  
fax: 613 947-9090  
em: rstewart@am.ncr.forestry.ca

**Mr. Ralph Torrie**  
Partner  
Torrie Smith and Associates  
255 Centrum Blvd., 3<sup>rd</sup> Fl  
Orleans, ON  
K1E 3V8  
tel: 613-824-3045  
fax: 613-824-3297  
em: torsmith@web.net

**Dr. Geoffrey Wall**  
Faculty of Environmental Studies  
University of Waterloo  
Isaiah Bowman Bldg.  
Waterloo, ON  
tel: 519-885-1211 Ext. 3609  
fax: 519 746-2031  
em: gwall@watserv1.uwaterloo.ca

**Dr. Andrew Weaver**  
University of Victoria  
School of Earth & Ocean Sciences  
P.O. Box 3055  
Victoria, BC  
V8W 3P6  
tel: (250) 472-4001  
fax: (250) 472-4004  
em: weaver@ocean.seos.uvic.ca  
website: <http://wikyonos.seos.uvic.ca>

**Dr. Elaine Wheaton**  
Climatologist, Lead Scientist  
Climatology Section  
Saskatchewan Research Council  
15 Innovation Blvd.  
Saskatoon, SK  
S7N 2X8  
tel: 306 933-8179  
fax: 306 933-7446  
em: wheaton@src.sk.ca  
web site: [www.src.sk.ca](http://www.src.sk.ca)  
For the Prairie Adaptation  
Network: [www.src.sk.ca/pan/pan.html](http://www.src.sk.ca/pan/pan.html)

## **CANADIAN STAKEHOLDERS Business**

**Alliance for Responsible Environmental  
Alternatives (AREA)**  
1100 Canada Trust Tower  
10104 - 103 Ave  
Edmonton, AB  
T5J 0H8  
tel: (403) 944-0695  
fax: (403) 441-9849  
em: vant.tom@syncrude.com  
Web: www.areacanada.com  
**M. Tom Vant**  
Executive secretary  
tel: 403-944-0695  
fax: 403-441-9849  
em: vant.tom@syncrude.com

**Business Council on National Issues (BCNI)**  
Royal Bank Centre  
90 Sparks Street, Ste 806  
Ottawa, ON  
K1P 5B4  
tel:  
fax:  
em:  
web:  
**Mr. John R. Dillon**  
Senior Associate  
tel: 613-238-3727  
fax: 613-236-8679  
em: bcni@flexnet.com

**Canadian Assc. of Petroleum Producers**  
2100, 350 - 7 Avenue S.W.  
Calgary, AB  
T2P 3N9  
tel:  
fax:  
em:  
web: www.capp.ca  
**Mr. Gary Webster**  
Manager,  
Environment & Health  
tel: 403 267-1100  
403 267-1147  
fax: 403 261-4622  
em: webster@capp.ca

**Canadian Chemical Producers' Association**  
Suite 805, 350 Sparks Street  
Ottawa, ON  
K1R 7S8  
tel: 613-237-6215  
fax: 613-237-4061  
em:  
Web: http://ccpa.ca  
**Bruce Caswell**  
tel: 613-237-6215  
fax: 613-237-4061  
em: bcaswell@ccpa.ca

**Canadian Electricity Association**  
66 Slater St., Suite 1210  
Ottawa, ON  
K1P 5H1  
tel: 613-230-9263  
Fax: 613-230-9326  
em:  
web: http://www.canelect.ca  
**Mr. Roy G. Staveley**  
Vice President, Public Affairs & Environment  
tel: 613-230-9047  
fax: 613-230-9326  
cell: 613-292-2238  
pag: 613-786-5984  
em: staveley@istar.ca  
**M. Pierre Guimond**  
Senior Advisor  
Government Relations  
tel: 613 230-9876  
fax: 613 230-9326  
em: guimond@canelect.ca

**Canadian Institute for Business & Environment**  
506 Victoria Ave.  
Montreal, QC  
H3Y 2R5  
tel: (514) 369-0230  
fax: (514) 369-3282  
em: cibe@web.net  
website: none  
**Mr. Gary Gallon**  
President  
506 Victoria Ave.  
Montreal, QC  
H3Y 2R5  
tel: (514) 369-0230  
fax: (514) 369-3282  
em: cibe@web.net

**Canadian Labour Congress**  
2841 Promenade Riverside  
Ottawa, ON  
K1V 8X7  
**Mr. David Bennett**  
Director  
Health, Safety & Environment  
tel: 613 521-3400 #418  
fax: 613 521-4655  
em: dbennett@clc-ctc.ca  
Web: http://www.clc-ctc.com/

Canadian Pulp and Paper Association  
1155, rue Metcalfe  
Montréal, QC  
H3B 4T6  
tel:  
fax:  
em:  
web: [www.opendoors.cppa.ca](http://www.opendoors.cppa.ca)  
M. Jean-Pierre Martel  
Directeur, Forêts  
tel: 514 866-6621  
fax: 514 866-3035  
em: [forestry@cppa.ca](mailto:forestry@cppa.ca)

Canadian Wind Energy Association  
National Office  
Suite 100, 3553 - 31 Street NW  
Clagary, Alberta  
T2L 2K7  
tel: 1-800-9CanWEA  
fax: 403-282-1238  
em: [canwea@cadvision.com](mailto:canwea@cadvision.com)  
web: <http://www.canwea.com>  
Mr. Jeff Passmore  
Passmore Associates International  
Suite 600, 99 Bank Street  
Ottawa, ON  
K1P 6B9

Coal Association of Canada  
205 - 9th Ave. S.E. Suite 502  
Calgary, AB  
T2G 0R3  
tel: 1-800-910-2625  
fax: 403-265-7604  
em: [info@coal.ca](mailto:info@coal.ca)  
web: <http://www.coal.ca>  
Mr. Donald O. Downing  
President  
tel:  
fax:  
em: [dodcoal@agt.net](mailto:dodcoal@agt.net)

The Conference Board of Canada  
255 Smyth Road  
Ottawa, ON  
K1H 8M7  
tel:  
fax:  
em:  
web:  
Mr. Al Howatson  
Senior Research Associate  
Business & Env't. Research Program  
tel: 613-526-3280  
fax: 613-526-4857  
em: [howatson@conferenceboard.ca](mailto:howatson@conferenceboard.ca)

Insurance Bureau of Canada  
151 Yonge Street, Suite 1800  
Toronto ON  
M5C 2W7  
tel: 416-362-2031  
fax: 416-362-5952  
em: [webmast@ibc.ca](mailto:webmast@ibc.ca)  
web: <http://www.ibc.ca>  
Mr. Jim Harries  
tel: 416-362-2031  
fax: 416-361-5952  
em: [jharries@ibc.ca](mailto:jharries@ibc.ca)

Motor Vehicle Manufacturers Assc.  
25 Adelaide St., Suite 1602  
Toronto, ON  
M5C 1Y7  
tel: 416-364-9333  
fax: 416-367-3221  
em: [cvma@tor.hookup.net](mailto:cvma@tor.hookup.net)  
Mr. Mark Nantais  
Vice President

The Fraser Institute  
626 Bute Street, 2nd Floor  
Vancouver, BC  
V6E 3M1  
website: <http://www.fraserinstitute.ca>  
Mr. Michael Walker  
Executive Director  
tel: 604 688-0221  
fax: 604 688-8539  
em: [mawalker@istar.ca](mailto:mawalker@istar.ca)

## Civil Society

Association Climatique du Quebec (ACLIQ)  
Mme. Jacinthe Lacroix  
c/o Ser. de l'expertise en sinistre  
Dir. générale de la sécurité civile  
Ministère de la Sécurité publique  
2525, boul. Laurier, 2e étage  
Sainte-Foy, QC  
G1V 2L2  
tel: 418 646-8526  
fax: 418 646-5427  
em: jacinthe.lacroix@secpub.gouv.qc.ca

Canadian Center for Policy Alternatives  
804-805 Laurier Ave. West,  
Ottawa, ON  
tel: 613-563-1341  
fax: 613233-1458  
em: brucec@policyalternatives.ca  
Web: <http://www.policyalternatives.ca>  
Bruce Campbell  
Executive Director  
tel: 613-563-1341  
fax: 613233-1458  
em: brucec@policyalternatives.ca

Canadian Energy Research Institute (CERI)  
3512-33 Street, N.W., Ste 150  
Calgary, AB  
T2L 2A6  
tel: 403-282-1231  
fax: 403-284-4181  
em: ceri@ceri.ca  
Mr. Doug Bruchet  
Environment-Energy Research  
tel: 403 282-1231  
fax: 403 284-4181  
em: ceri@ceri.ca

Canadian Environmental Law Association (CELA)  
517 College Street, Suite 401,  
Toronto, ON  
M6G 4A2  
Tel: 416-960-2284  
fax: 416-960-9392  
Paul Muldoon

Canadian Federation of Municipalities  
24 Clarence Street  
Ottawa, ON  
K1N 5P3  
tel:  
fax:  
em:  
web:  
Mme Nicole Richer  
Titre:  
tel: 613-241-5221 poste 284  
fax: 613 241-7117  
em: nricher@fcm.ca

Canadian Institute for Environmental Law &  
Policy  
517 College Street, Suite 400  
Toronto, ON  
M6G 4A2  
tel: 416 923-3529  
fax: 416 923-5949  
em: cielap@web.net  
website: <http://www.web.net/cielap>  
Mr. Jack Gibbons  
Senior Economic Advisor  
tel: 416 923-3529  
fax: 416 923-5949  
em: cielap@web.net

David Suzuki Foundation  
Suite 219, 2211 West 4th Avenue  
Vancouver, BC  
V6K 4S2  
tel: 604 732-4228  
fax: 604 732-0752  
em: climate@davidsuzuki.org  
web: <http://www.davidsuzuki.org/>  
Dr. Jim Fulton  
Executive Director  
tel: 604 732-4228  
fax: 604 732-0752  
em: climate@davidsuzuki.org

Environmental Youth Alliance  
P.O. Box 34097 Station D  
Vancouver, BC  
V6G 4M1  
tel: 604-689-4446  
fax: 604-877-1355  
em: dragan@wimsey.com  
Web: <http://www.vcn.bc.ca/eya/>  
Doug Regan  
Office manager  
tel:  
fax:  
em: dragan@wimsey.com

Greenpeace  
185 Spadina Ave., Suite 600  
Toronto, ON  
M5T 2C6  
tel:  
fax:  
em:  
web:  
Mr. Kevin Jardine  
Climate Change and Energy Campaigner  
tel: 416 597-8408  
fax: 416 597-8422  
em: kevin.jardine@green2.greenpeace.org

**Inter-Church Committee on Ecology  
Taskforce on Churches & Corporate  
Responsibility**  
129 St. Clair Ave. W  
Toronto, ON  
M4V 1N5  
tel: 416-923-1758  
Fax: 416-927-7554  
em: tccr@web.net  
Dr. David Hallman  
Co-chair TCCR  
Energy & Environment Offices  
United Church of Canada  
3250 Bloor St. W  
Toronto, ON  
M8X 2Y4  
Tel: 416-231-7680 x 5051  
Fax: 416-232-6005  
em: dhallman@web.net

**International Center for Local Initiatives on the  
Environment (ICLEI)**  
8th Floor East Tower  
Toronto City Hall  
100 Queen's Street West  
Toronto, ON  
tel: 416-392-1480  
fax: 416 392-1478  
em: ccp@iclei.org  
web: <http://www/iclei.org/CO2>  
Gabriella Kalapos  
Project Manager  
Cities for Climate Protection Campaign  
tel: 416 392-1475  
fax: 416 392-1478  
em: gkalapos@iclei.org  
or  
Philip Jessup  
Director  
Cities for Climate Protection Campaign  
same address as above  
phone: 416-392-1480  
fax: 416-392-1478  
email: pjessup@iclei.org

**International Institute for Sustainable Development**  
161 Portage Ave East  
6th Floor  
Winnipeg, Manitoba  
R3B 0Y4  
tel: 204-958-7700  
fax: 204-958-7710  
em: reception@iisd.ca  
Web:  
Dr. Jim MacNeill  
Chairman  
1360-250 Albert St.  
Ottawa, ON  
K1P 6M1  
tel: 613- 236-6163 x2129  
fax: 613-238-8515  
em: jwmacneill@aol.com

**Pembina Institute**  
P.O. Box 7558  
Drayton Valley, AB  
T7A 1S7  
403-542-6272  
403-542-6464  
em:  
Web:  
Mr. Robert Hornung  
251 Laurier Ave., W. Suite 500  
Ottawa, ON  
K1P 5J6  
tel: 613-235-6288  
fax: 613-235-2190  
em: rhornung@web.net

**Pollution Probe**  
12 Madison Avenue  
Toronto, ON  
M5R 2S1  
tel: 416-926-1907  
fax: 416-926-1601  
em: pprobe@www.pollutionprobe.org  
web: [www.pollutionprobe.org](http://www.pollutionprobe.org)  
Mr. Ken Ogilvie / Ron Nielsen  
Executive Director / Director, Air Programme  
tel: 416 926-1907  
fax: 416 926-1601  
em: pprobe@web.net / rnielsen@web.net

**Sierra Club of Canada**  
1 Nicholas Street, Suite 412  
Ottawa, ON  
K1N 7B7  
tel: 613-241-4611  
fax: 613-241-8664  
em: sierra@web.net  
web:  
Ms. Louise Comeau  
tel: 613-741-9948  
613-241-4611  
fax: 613-744-8664  
613-241-2292  
em: louisec@web.net  
sierra@web.net

**Government  
Canada**

NRCan  
580 Booth St., 21st Flr.  
Ottawa, ON  
K1A 0E4  
tel:  
fax:  
em:  
web: <http://www.nrcan.gc.ca>  
Jean C. McCloskey  
Deputy Minister  
tel: 613 992-3456  
fax: 613-992-3828  
em: Jean.McCloskey@cc2smtp.nrcan.gc.ca

Environment Canada  
10 Wellington, Terrasses de la Chaudière, 28th floor  
Hull, QC  
K1A 0H3  
tel:  
fax:  
em:  
web: <http://www.ec.gc.ca>  
Mr. Ian Glen  
Deputy Minister  
tel: 819 997-4203  
fax: 819 953-6897

Foreign Affairs and International Trade  
125 Sussex Drive  
Ottawa, ON  
K1A 0G2  
tel:  
fax:  
em:  
web: <http://www.dfait-maeci.gc.ca>  
Mrs. Ruth Archibald  
Director  
Refugee, Population and Migration  
tel: 613 996-1231  
613-944-0928  
fax: 613-944-0064  
em:

Prime Minister's Office  
129 Langevin Block, 80 Wellington Street  
Ottawa, ON  
K1A 0A2  
Ms. Marjory Loveys  
Policy Advisor  
Economic Development  
Prime Minister's Office  
tel: 613-957-5567  
fax: 613-957-5514

**Alberta**

Ministry of Environmental Protection  
Mr. Simon Knight  
Technologist, Strategic and Regional Support  
Division  
Alberta Ministry of Environmental Protection  
9915 - 108 Street, South Petroleum Plaza  
Edmonton, Alberta  
T5K 2G6  
tel: (403) 427-2231  
fax: (403) 422-5136  
em: sknight@env.gov.ab.ca

Department of Energy  
Mr. Goldie Edworthy  
Senior Analyst  
Environmental Affairs Branch  
Department of Energy  
Government of Alberta  
5<sup>th</sup> Floor, North Tower, Petroleum Plaza  
9945 - 108<sup>th</sup> Street  
Edmonton Alberta  
T5K 2G6  
tel: (403) 422-8779  
fax: (403) 427-2278  
em: edwortg@enr.gov.ab.ca

**British Columbia**

Ministry of Environment, Lands and Parks  
Mr. Doug Dryden  
Director, Air Resources Branch  
British Columbia Ministry of Environment, Lands  
and Parks  
Mailing address:  
P.O. Box 9341 Stn Prov. Govt.  
Victoria B.C  
V8W 9M1  
Location:  
3<sup>rd</sup> Floor, 2975 Jutland road  
Victoria B.C.  
V8T 5J9  
tel: (250) 356-6027  
fax: (250) 356-7197  
E-mail: ddryden@epdiv1.env.gov.bc.ca

Ministry of Employment and Investment  
Mr. Warren Bell  
Manager, Energy Management  
Resource Policy Branch  
1810 Blanshard Street, 4<sup>th</sup> Floor  
Victoria, B. C.  
tel: (250) 952-0244  
fax: (250) 952-0258

## **New Brunswick**

Jim Knight  
Director  
Environmental Quality Branch  
Department of the Environment  
PO Box 6000  
Fredericton NB  
E3B 5H1  
Tel: 506-457-4844  
Fax: 506-453-2265  
em: jmk@gov.nb.ca

Marion Rigby  
Policy Analyst  
Policy and Planning Branch  
Natural Resources and Energy  
PO Box 6000  
Fredericton NB  
E3B 5H1  
Tel: 506-453-3049  
Fax: 506-453-6689  
em: mrigby@gov.nb.ca

## **Newfoundland**

Ken Dominic  
National Air Issues Committee  
Department of Environment and Labour  
4<sup>th</sup> floor, West Block  
Confederation Building  
St. John's NF  
A1B 4J6  
Tel: 709-729-5782  
Fax: 709-729-1930  
Em: kdominie@env.gov.nf.ca

David Bazeley  
Mines and Energy  
PO Box 8700  
St John's NF  
A1B 4J6  
Tel: 709-729-5746  
Fax: 709-729-2508  
em: dbazeley@atpl.dnr.gov.ns.ca

## **Nova Scotia**

Kate Moir  
Department of the Environment  
PO Box 2107  
Halifax NS  
B3J 3B7  
Tel: 902-424-2566  
Fax: 902-424-8175  
em: hlfxterm.envi.moirkm@gov.ns.ca

Alan Parker  
Department of Natural Resources  
Energy Utilization  
PO Box 698  
Halifax NS  
B3J 2T9  
Tel: 902-424-8175  
Fax: 902-424-7735  
em: alparker@gov.ns.ca

## **Ontario**

Tony Rockingham  
Director  
Energy Conservation and Liaison Branch  
Ministry of Energy, Science and Technology  
6<sup>th</sup> Floor, 135 St. Clair Ave. West  
Toronto, ON  
M4V 1P5  
Tel: 416-323-5626  
Fax: 416-323-5636

## **Prince Edward Island**

Todd Fraser  
Fisheries and Environment  
PO Box 2000  
Charlottetown PEI  
C1A 7N8  
Tel: 902-368-5037  
Fax: 902-368-5830  
Em: tkfraser@gov.pe.ca

## **Québec**

M. Conrad Anctil  
Président  
Groupe de travail québécois  
sur les changements climatiques  
Chef du service de la qualité de l'atmosphère  
Ministère de l'Environnement de la Faune  
675 boul. René-Lévesque Est  
Édifice Marie-Guyart, 9<sup>e</sup> étage  
Qu. bec, (Québec)  
G1R 5V7  
tel: 418-521-3950 poste 4980  
fax: 418-646-0001  
em: conrad.anctil@mef.gouv.qc.ca



# AUDITOR GENERAL'S LIST OF CLIMATE CHANGE CONTACTS -

cc\_ppl2c.doc (97-09-26)

Protected A

## CLIMATE CHANGE

### LIST OF POTENTIAL PEOPLE OR ORGANIZATIONS TO SEE/TALK TO

#### ORGANIZED IN ACCORDANCE WITH THE FOLLOWING HEADERS:

**INDIVIDUALS**

**FEDERAL DEPARTMENTS AND AGENCIES**

**PARLIAMENTARY COMMITTEES (and/or Research Staff)**

**PROVINCIAL GOVERNMENTS**

**COMPANIES WITH EXPERIENCE IN ECO-ECONOMICS (or program recipients)**

**ASSOCIATIONS CONCERNED ABOUT ENVIRONMENTAL ISSUES (or recipients of program benefits)**

**MEDIA/JOURNALISTS**

## INDIVIDUALS:

### > Ottawa-Hull area:

**Francois Bregha**, consultant, **Resource Futures International Inc.**, 1 Nicholas St., Suite 406, Ottawa, Ont., K1N 7B7, Tel: 241-1001; Fax: 563-4758

**Bronson Consulting Group**, 610-350 Sparks, Ottawa. Tel: 787-2000, Fax: 787-2011.  
Conducted NRCan-commissioned study on all aspects of federal fleet. Potential contact(s):

- > **Peter Middleton**, President, or
- > **George Neufeld**, Partner

**Jim Bruce**, (former ADM Environment Canada, Climatology), Co-Chair U.N. Intergovernmental Panel on CC Working Group III and Chair, **Canadian Climate Program Board**: home address: 1875 Juno, Ottawa, Ontario, K1H 6S6; Tel: 731-5929 (or 828-8317, if urgent); Fax: 731-3509

**Jeff Carruthers**, former ADM of EMR/NRCan Energy Branch; currently a Principal with Sussex Circle, a business consultant firm, 50 O'Connor Street, Suite 1424, Ottawa, K1P 6L2; Tel 567-3200; Fax: 567-4627; (Home Address: R.R. 1, Perth, Ontario, K7H 3C3; Tel: (613) 267-3890; Fax: (613) 267-6727)

**Verne Chant**, Principal with Hickling Management Consultants, Ottawa; Tel: 237-2220 -- has done extensive work in the energy field in connection with solar energy and CMHC.

**Alex Chisholm**, former Director, Science Policy Branch, Environmental Conservation Service; Tel: 953-9607

**Bruce Doern**, University of Carleton (or Ottawa?), looks at policy areas of government -- could help explain why the issue of climate change is so intractable; apparently has developed a set of protocols for NOx and VOX

**Energy Pathways Inc.**, 251 Laurier Ave. West, Suite 500, Ottawa, K1P 5J6; Tel: 235-7976; Fax 235-2190. Potential contact(s):

- > **Marjorie Lovies**, currently with the Prime Minister's Office (PMO); or
- > **Bill Armstrong**, President

**Lorette Goulet**, currently with the Canadian Centre for Management Development (formerly DM at FORD(Q) and Associate DM at Environment Canada); Tel: 997-4163

**Chris Henderson**, Chief Executive Officer, The Delphi Group, 700 - 45 Rideau Street, Ottawa, Ontario, K1N 5W8; Tel: 562-2005; Fax: 562-2008 -- **Member of the Commissioner of the Environment and Sustainable Development's (CESD's) Panel of Environmental Advisors**

**Michael Konecny**, President, **Lykos International Inc.**, PO #4407, Station 'E', Ottawa, K1S 5B4; Tel/Fax: 238-5370 -- project leader in the implementation of several components of the "Off-Oil" program and of the components of the Canadian National Energy Program regarding conservation and renewable energy.

**Claude-André Lachance**, Director, Government and Regulatory Affairs, Dow Chemical Canada Inc., 45 O'Connor Street, Suite 1400, Ottawa, Ontario, K1P 1A4, Tel: 230-5415; Fax: 563-7822 -- **Member of the CESD's Panel of Environmental Advisors**

**Dr. John M. Last**, Emeritus Professor of Epidemiology, University of Ottawa [Per a letter to the editor appearing in the Globe and Mail on 27 January 1996, he is a public health specialist and epidemiologist whose primary concern is with the implications of global warming for human health (e.g. increased incidence of skin cancer and cataracts due to increased ultraviolet radiation flux in the biosphere, as well as more frequent cases of St. Louis B encephalitis, eastern equine encephalitis and possibly malaria and a cluster of health problems associated with migration of "environmental refugees"). He chaired the "Health Issues" panel of the Canadian Global Change Program.]

**Jim MacNeill**, expert in environment policy at the **Institute for Research on Public Policy**, also Chairman of the International Institute of Sustainable Development (IISD), Secretary General of Our Common Future, the Brundtland Commission, and former (1987) Secretary General of the UN World Commission on Environment and Development; 13th Floor - 250 Albert St., Ottawa, Ontario; Tel: 613/749-8681; Fax: 613/749-9186

**Marbek Resource Consultants Ltd.**, 1355 Bank Street, Ottawa; Tel: 523-0784; Fax: 523-0717 Potential contact(s):

- > **Paul Robillard** or **Martin Adelaar**, Principals
- > **Steven Hazell**

**Charles Marriott**, retired (formerly with Environmental Citizenship and NRCan), Apt. 1410 - 211 Wurtemberg, Ottawa, Ontario K1N 8R4; Tel 521-2794.

**Jeff Passmore**, President, Passmore Associates International, 255 Albert Street, Suite 600, Ottawa, K1P 6A9; Tel: 566-7005; Fax: 233-9527 -- recently (Nov/95) completed a study for Environment Canada on Energy Externalities: An Examination of Practices, Recent Results and Implications, also recently (Feb/96) organized an Air Emissions Workshop for Environment Canada and organized 2 renewable energy conferences (last one in April/97)

**Richard Paton**, President, The Canadian Chemical Producers' Association, Suite 805 - 350 Sparks Street, Ottawa, Ontario, K1R 7S8; Tel: 237-6215; Fax: 237-4061 -- **Member of the CESD's Panel of Environmental Advisors**

**Prof. Andre Plourde**, University of Carleton

**David Rapport**, Professor, Department of Biology and Research Coordinator for the **Institute for Research on Environment and Economy**; 5 Caxixa Lavallee, University of Ottawa; Tel: 564-7645; Fax: 564-6716; (or a professor of ecosystem health at the University of Guelph; Tel: (519) 824-4120) -- also co-chairman of the International Symposium on Ecosystem Health and Medicine held in Ottawa on June 19-23, 1994; member of the Science Advisory Panel Environmental Monitoring and Assessment Program US EPA

**Doug Russell**, Principal, Global Change Strategies International Inc., 37 Fuller Avenue, Ottawa, Ontario, K1Y 3R9; Tel: 729-5462; Fax: 729-5689; also former Director (1995), Air Issues Branch, Environmental Protection Services, Environment Canada; speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Politics and Policy: What are we up against?"

**Glen Toner**, Associate Professor, School of Public Administration, Department of Political Science, Carleton University, 5 Woodlawn Ave., Ottawa, Ont., K1S 2S8, Tel & Fax: 236-8927 -- **Member of the CESD's Panel of Environmental Advisors**

**Ralph Torrie and Judy Smith** of Torrie Smith & Associates, energy consultants, Suite 302, 255 Centrum Blvd (Cumberland Town Hall), Orleans, Ont. K1E 3V8; Tel: 824-3405

> **Ontario (excluding Ottawa-Hull area):**

**J. Edward Arnold**, Vice-President of **Arthur D. Little of Canada Ltd.** Environmental, Health and Safety Training Institute, Head Office 67 Yonge Street, Suite 400, Toronto; Tel: (416) 361-1051.

**David V.J. Bell**, Director, York University Centre for Applied Sustainability, North York;

**Randy C. Billing**, President, Ernst & Young Environmental Services Inc., P.O. Box 251, 222 Bay Street, Ernst and Young Tower, Toronto, Ontario, M5K 1J7 ; Tel: (416) 943-3690; Fax: (416) 864-1174 -- **Member of the CESD's Panel of Environmental Advisors**, also advises companies on total quality environmental management (TQEM) - which is a preventative approach to problems rather than dealing with them at the end of the pipeline

**Leonard J. Brooks**, Professor of Business Ethics & Accounting, University of Toronto, Toronto; Tel: (416) 978-2011 -- preparing a manuscript entitled Professional Ethics for Accountants, spoke at the 1994 IIA International Conference in June 1994 on Possible Approaches to Ethical Decision Making

**Donald A. Chant**, Chairman and President of the Ontario Waste Management Corporation, 4195 Dundas West, Toronto; Tel: (416) 236-0172; also Chairman of the World Wildlife Fund of Canada, and co-founder of Pollution Probe

**Dr. Quentin Chiotti**, Coordinator, Climate Change Study Group, Institute for Environmental Studies, 33 Willocks Street, Suite 1016, University of Toronto, Toronto, M5S 3E8; Tel: (416) 978-0309; Fax: (416) 978-3884

**Ian D. Clark**, Partner, KPMG Centre for Government, 55 St.-Clair Ave. West, Suite 300, Toronto Ontario, M4V 3C2 -- former Secretary of the Treasury Board (1989 - 1994) and (from 1993) Comptroller General of Canada -- expertise in machinery of government issues; Tel: 416/515-2374; Fax: 416/515-2240

**Roger Cotton**, Partner and Head of the Environmental Law Practice of Tory, Tory, DesLauriers and Binnington, Aetna Towers, Toronto; Tel: (416) 865-7986 -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Environmental Law, the current Canadian legal framework, potential changes, and what internal auditors ought to concentrate on in fulfilling their mandate and protecting the interests of their employers

**Eric Cowan**, Cowan Research Inc., 2255B Queen St. East, Suite 220, Toronto, Ontario, M43 1G3; Tel: 416/699-9422; Fax: 416/699-9858, environmental consultant

**Michael Deck**, Associate Director, Centre for Corporate Social Performance and Ethics, University of Toronto, Toronto; Tel: (416) 978-2011 -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Application of Ethical Decision-Making Techniques: A Workshop - case study concerning the handling of the pollution of a river, dealing with issues relating to uncertainty of information, actions and responses to emerging technical concerns, responsibilities of technical personnel, management and the Board of Directors, and opportunities arising from difficult situations

**Tom Homer Dickson**, University of Toronto Professor in Environmental Security and Global Instability

**Peter Duinker**, Department of Forestry, Lakehead University, Thunder Bay

**Suzanne Elston**, an active writer and speaker on environmental issues, Belleville, Ontario

**Howard Ferguson**, Toronto; Tel: 416/364-8159; Perth cottage 613/264-0973 , helped organize the 2nd World Climate Conference in Geneva in August 1990; formerly with Environment Canada

**James Goodfellow**, Partner of Deloitte and Touche, 150 King St. West, Toronto; Tel: (416) 351-3942 -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Environmental Accounting and Reporting, providing insights into the application of emerging practices

**Erik Haites**, a consultant on environmental economics with Margaree Consultants Inc., 145 King Street, Suite 1000, Toronto, M5H 3X6; Tel: 416/369-0900. Also heads the Technical

Support Unit for Working Group III of the IPCC.

**Dr. Kenneth Hare**, climatologist, helped organize the first World Climate Conference in Geneva in 1979; mailing address: 301 Lakeshore Road West, Oakville, Ontario, L6K 1G2; Tel: (905) 849-1374 (Home); (905) 842-9579 (Bus.); (905) 653-1182 (Bus.); Fax: (905) 849-4954

**Richard Harris**, an environmental audit specialist from KPMG Environmental Consultants, Commerce Court West, Toronto; Tel: (416) 777-8909

**Dr. Danny Harvey**, Professor, Department of Geography, University of Toronto, 100 St. George Street, Toronto, Ontario, M5S 3G3; Tel: (416) 978-1588 -- also serves as Chairman of the Special Committee on the Environment for the City of Toronto

**Charles (Chuck) Hantho**, Chairman of the **Minister's Advisory Council on Industrial Energy Efficiency (MACIEE)** [other members of MACIEE include **Maureen Kempston Darkes** of General Motors of Canada Limited and **Charles W. Wilson** of Shell Canada Limited] and Chairman of the **Canadian Industry Program for Energy Conservation (CIPEC)**; also Chairman of the **Dominion Textile Inc.** 1950 Sherbrook St. West, Montreal, H3H 1E7; Tel: (514) 989-6031 and **Dofasco Inc.**, 1330 Burlington East, Hamilton; Tel: (905) 544-3761 -- Hantho - can best be reached at 1950 Sherbrook St. West, Montreal, H3H 1E7; Tel: (514) 989-6031 (speak to Georgina Bray, Executive Assistant to Mr. Hantho) or by Fax: (514) 989-6073: Home Tel/Fax (416) 245-2842 or Tel: (416) 245-2552

**Monte Hummel**, President of the **World Wildlife Fund of Canada**, Suite 504 - 90 Eglinton Ave. East, Toronto, Ontario, M4P 2Z7; Tel: 416/489-8800 or 1-800-26-PANDA; Fax: 416/489-3611; Web: <http://www.wwfcanada.org>

**Colin Isaacs**, Former Executive Director of Pollution Probe; President and Environmental Consultant, Contemporary Information Analysis, 61 Mutual, Toronto; Tel: (416) 863-6230 or 410-0432 -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Environment and Ethics - The Future

**Bruce Jank**, Wastewater Technology Centre, Prairie Drive, Burlington, Ontario; Tel: (905) 690-2010 - company sells technology for treating industrial waste.

**Prof. Phillip Jones**, founder of the Environmental Studies Institute at the University of Toronto; Tel: (416) 978-2994; and one of the founders of Pollution Probe.

**Michael Keating**, environment writer and consultant (formerly with the Globe and Mail), currently preparing a major information project for the Canadian Global Change Program Board on "Canada and the State of the Planet" - the first annual watching brief on the planet's vital signs, Toronto; Tel: (416) 425-0005

**Bill Keough**, consultant, former Director of Supply for Western Hemisphere, Exxon Corporation, also worked on nuclear matters (Ontario Hydro Technical Advisory Panel on Nuclear Safety)

**Fasken Martineau**, a lawyer from the firm of Gowling, Strathy & Henderson which deals with environmental law

**John McCallum**, chief economist for the Royal Bank, Toronto -- initially signed a letter (March 1997) with two Nobel laureates endorsing a statement on climate change; but subsequently (April 1997) withdrew his signature because he rejected a line claiming "there are policy options that would slow climate change without harming North American living standards." However, he and his staff will be studying the topic in 1997 year.

**Jack Mintz**, University of Toronto, has looked into the question of use of 'virgin' products vs 'recycled' products re: their impact on the environment; found that the tax system is biased toward virgin products; currently (Jan/97) a Clifford Clark Visiting Economist, Department of Finance, speaker at the April 1997 Renewable Energy Conference in Ottawa on "Is Environmental Policy Good Economics?"

**Ted Mosquin**, ecologist, research scientist and environmental scientist in Lanark, Ontario; also President of Ecospheric International Inc.

**Ted Munn**, earth scientist at the Institute for Environmental Studies, University of Toronto, Haultain Building, 170 College Street, Toronto, Ontario, M5S 1A4 -- also general editor of the International Journal of Environmental Councils (?); Tel: (416) 978-8202 (Univ.) or (416) 484-6551 (home); Fax: (416) 978-3884

**Dennis O'Leary**, a partner and environmental specialist at the law firm of Cassel Brock & Blackwell, 400 King West, Toronto; Tel: (416) 869-5300

**Peat Marwick Stevenson and Kellogg**, management consultants, which prepared a report commissioned by Canada's 11 federal and provincial environment minister, 1000-45 O'Connor, Ottawa; Tel: 560-0011. Potential contact(s): **Garry Sears**

**Richard (Dick) Peltier**, University of Toronto Climatologist, Department of Physics, Earth Sciences, Toronto, Ontario, M5S 1A7; Tel: (416) 978-2938

**Elizabeth Rose**, Vice-President Employee Satisfaction, Health and Well-Being, Nortel, 2920 Matheson Blvd., Ontario, L4W 4M7; Tel: (905) 238-7344; Fax: (905) 238-7879 -- **Member of the CESD's Panel of Environmental Advisors**

**Ronald Venter**, Vice-Dean, Faculty of Applied Science and Engineering, University of Toronto -- familiar with fuel-cell technology

**Peter Victor**, Dean, Faculty of Environmental Studies, York University, 355 Lumbers Building, 4700 Keele Street, North York, Ontario, M3J 1P3; Tel: (416) 736-5284; Fax: (416) 736-5679 -- **Member of the CESD's Panel of Environmental Advisors**

**Dwight Wainman**, Founder of GreenLEAP, CA of Wainman and Kydd, 70 Richmond East, Toronto; Tel: (416) 363-2075 -- author/editor of the CICA Publication - The Environmental Manual for Business and Professionals -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Environmental Auditing, discussing the problems of auditing environmental impacts and discussing practical techniques that can be used.

**Brian Wanless**, a principal (business policy) with Ernst & Young, Toronto; Tel: (416) 864-1234. Conducted a government-commissioned study two years ago of jobs in Canada's environment industry

**Ron Williams**, micro-biologist at the University of Toronto and a fellow of the Royal Society of Canada -- has written books on the world carbon cycle, including oil, gas, coal and CO<sub>2</sub>

**Rodney White**, geographer, Director, University of Toronto, Institute for Environmental Studies, 33 Willocks Street, Suite 1016, University of Toronto, Toronto, M5S 3E8

**Bunli Yang**, BY Associates, 282 Clendenan Avenue, Toronto, M6P 2X3, Tel: (416) 762-6672; Fax: (416) 391-0438 -- private consultant in risk communications and project management in environment, energy and economic development (former top energy analyst in the Ontario Ministry of Energy before it consolidated with the Ministry of Environment, also involved with the National Round Table on the Environment and Energy); Tel: (416) 592-7096 at Ontario Hydro

**Adam Zimmerman**, former Chairman of Noranda Forest Inc., Toronto Dominion Tower, Toronto; Tel: (416) 982-7444 -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Environment and Ethics

> **Quebec (excluding Ottawa-Hull area):**

**Jean-Pierre Gauthier**, Chef du Cabinet, Bureau du maire, 275, rue Notre-Dame Est, bureau 2.103, Montreal, Quebec, H2Y 1C6; Tel: (514) 872-9859; Fax: (514) 872-3124 -- **Member of the CESD's Panel of Environmental Advisors**

**Yves Gauthier**, KPMG, 2000 McGill College Avenue, Suite 1900, Montreal, Quebec, H3A 3H8; Tel: (514) 840-2350; Fax: (514) 840-2339 -- **Member of the CESD's Panel of Environmental Advisors**

**Nigel Roulet**, University of McGill, professor in the Department of Geography, also Director of McGill's Centre for Climate and Global Change Research (C<sup>2</sup>GCR) -- has a wide range of experience in climate and environmental change -- and has conducted research work re:

methane; Tel: (514) 398-4945

> **Manitoba:**

**Brian Wilkes**, Principal, Brian Wilkes and Associates, 2 Park Terrace Dr., Winnipeg, Manitoba, R2J 3C7 -- former Director, Environmental Protection and secretary to the Canadian Council of Minister of the Environment (left March 1997); Tel: 204/225-8573 (work); 204/256-3646 (home); Fax: 204/255-7427

> **Saskatchewan:**

> **Alberta:**

**Jim Beck**, professor of forest management at the University of Alberta, Edmonton; Tel: (403) 492-3111

**Jack MacLeod**, Corporate Director, 24 Pumphill Landing S.W., Calgary, Alberta, T2V 5C2; former (retired 1993) President, CEO and Director of Shell Canada Ltd; Tel: (403) 640-0520; Fax: (403) 252-9095 -- he is also Chairman, Foothills Hospital Foundation Board; Chairman, Director, Learning for a Sustainable Future; and a Director of NOVA Corporation, Trimac Ltd., Bovar Inc., Wascana Energy Inc., Sunlife Assurance Company, Van Horne Institute, and the Advisory Board, Alberta Northeast Gas.

**Dr. Robert Page**, Dean, Faculty of Environmental Design, University of Calgary, 2500 University Drive N.W., Calgary, Alberta, T2N 1N4; Tel: (403) 220-6606; Fax: (403) 289-8668; Residence Tel: (403) 244-3202 -- **Member of the CESD's Panel of Environmental Advisors**

**David Schindler**, professor at University of Alberta, Edmonton; Tel: (403) 492-3111 -- considered as one of Canada's top experts on such environmental problems as acid rain

**Dr. Ernie Wiggins**, consultant, formerly with the Alberta Research Council, considered to be one of Western Canada's pre-eminent scientists and teachers

> **British Columbia:**

**Tim Ball**, environmental consultant in Victoria, former Professor of Climatology at U of Winnipeg

**George Boer**, Canadian Modelling Group (Canadian Centre for Climate Modelling and Analysis), new centre in Victori

**Dr. Bowie**, Vancouver, knowledgeable about the health costs of climate change

**Howard Coward**, University of Victoria, Director of Centre for Reli??

**Kirk Dawson**, **Canadian Institute for Climate Studies**, 130 Saunders Annex (or 180 Saunders St.), P.O. 1700, Victoria, B.C., V8W 2Y2; Tel: 250/721-8800 (Business.); Fax: 250/721-7217 or 250/497-8621 (Home); a former DOE employee; head of the **Canadian Climate Centre** in Toronto and developed the first (Canadian ?) climate change model;

**Aldyn Donnelly**, formerly with West Coast Energy, currently with Greenhouse Emissions Management Consortium (GEMCO) - a consortium of utility and gas companies in Canada, involved in calculation of net CO<sub>2</sub> transfers involved in selling energy which could lead to the creation of a "futures" industry; Tel: 604/731-4666; Fax: 604/731-4664

**Robert Falls**, consultant, formerly with the Sustainable Development Council of West Coast Energy -- currently involved in work related to offsets of greenhouse gas emission reductions; Tel: 604/669-1343; Cell: 604/603-7900

**Daryl Fields**, Manager, **The ARA Consulting Group Inc.**, Suite 402-475 Howe St., Vancouver, B.C., V6C 2B3; Tel: (604) 681-7577; Fax: (604) 669-7390 -- conducted evaluations of DOE's Climate Services and Research Program, NRCan's PERD, ATF R&D program and the Forest Industries Renewable Energy Program; or **Michael Margolick**

**Tony Hodge**, Engineer and Environmental Consultant, Consulting Engineer and Policy Research, 767 Matheson Avenue, Victoria, B.C., V9A 6E1; Tel: (250) 384-8080; Fax: (250) 384-8228 -- **Member of the CESD's Panel of Environmental Advisors**

**Dr. Mark Jaccard**, Head, Electricity Market Task Force and Advisor to the Minister of Employment and Investment of BC, former Chair of BC Utilities Commission and Professor at University of BC (former Professor at Simon Fraser), has PhD. in energy economics, supporter of central/federal intervention and full cost accounting, considered by some to be 'left' of centre

**Hamish Kimmins**, University of B.C.; Tel: (604) 822-3549 -- involved with forestry issues related to sustainable development

**Phil Mayer**, professor of environmental economics at the University of British Columbia, Vancouver; Tel: (604) 822-2211

**Mike Robertson**, Victoria, Chairman of the Climate Change Institute Studies at the University of Victoria, a (former?) oil man with Petro Canada

**Prof. John Robinson**, Director, **Sustainable Development Research Institute**, University of British Columbia, Vancouver, V6T 1Z2 -- (formerly with the University of Waterloo), and Chair of the Canadian Options for Greenhouse Gas Emission Reduction (COGGER) Panel, also one of the lead authors of the IPCC Working Group III report; Tel: 604/822-8198

or 604/822-9188

**Marvin Shaffer**, PhD., private consultant in Vancouver, BC, does not believe in government intervention on energy efficiency matters, believes more in market-driven approaches, considered by some to be 'right' of centre

**Bob Stewart**, University of Victoria -- an ocean scientist (oceanographer) as well as a research scientist who runs the space centre and is considered a scientific conservative

> **Atlantic Provinces:**

**Gordon Beanlands**, University of Dalhousie, Nova Scotia, wrote book on Environmental Impact Assessments and worked with the World Bank

**Carl Brothers**, engineer (with over 10 years wind energy experience), works at Atlantic Wind Test Site, North Cape, PEI

**Louis Comeau**, home address: 1731 Dunvegan Drive, **Halifax**, Nova Scotia, BEH 4G2; Tel: (902) 422-6668; Fax: (902) 422-1482 -- Chairman of PowerSmart Inc. (Tel: (604) 688-4637) and former CEO and President of Nova Scotia Power Inc.,

**David Greenberg**, with VIO (?); Tel: (902) 426-2373

**Owen Hertzman**, professor with oceanography department (weather researcher) at Dalhousie University; Tel: (902) 494-3683

**Susan Holtz**, Environmental Policy Consultant, Stanbrae Road, Ferguson's Cove, P.O. Box 49, Site 15, RR#5, Armdale, Nova Scotia, B3L 4J5; Tel: (902) 477-3690; Fax: (902) 477-5464 -- **Member of the CESD's Panel of Environmental Advisors and OAG's Senior Advisory Panel**

**Bruce Johnson**, Oceanography Professor at Dalhousie University in **Halifax** -- believes that promoting the growth of a species of microscopic ocean plant called phytoplankton could be a way to combat global warming (i.e. phytoplankton farms could be the ocean equivalent of tree planting)

**Pat Lane**, Environmental Consultant, 5439 Cogswell Street (or 1663 Oxford), Halifax, Nova Scotia; Telephone (902) 423-8197; Fax: (902) 429-8089

**Dr. Trevor Platt**; Tel: (902) 436-3793 -- concerned with climate impacts on oceans (per Pat Lane)

**Roger Pocklington**, oceanographer at the Bedford Institute in Halifax/Dartmouth and considered a healthy skeptic on climate change

**Stephen Thompson**, Chair in Sustainable Development, Faculty of Forestry and Environmental Management, University of New Brunswick, 818 Charlotte Street, Fredericton, N.B., E3B 1M8; Tel. (bus.): (506) 453-4921; (home) (506) 455-5248; Fax: (506) 453-3538 -- **Member of the CESD's Panel of Environmental Advisors**

## International contacts:

### > Denmark:

**Otto Larsen**, Minister Counsellor, Royal Danish Embassy, speaker at the April 1997 Renewable Energy Conference in Ottawa

**Lise Christoffersen**, Trade Commissioner, Royal Danish Consulate General, Toronto, speaker at the April 1997 Renewable Energy Conference in Ottawa

### > India:

**Mr. Prem K. Budhwar**, High Commissioner for India, speaker at the April 1997 Renewable Energy Conference in Ottawa

### > Mexico:

**Mr. Odon de Buen**, Chairman, National Commission for Energy Saving (Mexico), speaker at the April 1997 Renewable Energy Conference in Ottawa

### > United States:

*Washington, D.C. Area:*

**Karl Bourdeau**, Managing Partner of Beveridge and Diamond, Washington, D.C. -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on the current U.S. legal framework, potential changes, and what internal auditors ought to concentrate on in fulfilling their mandate and protecting the interests of their employers

**Robert Davis**, University of Virginia, one of the world's experts on atmospheric circulation changes has published research which demonstrates changes in the jet stream that are counter to what would be expected from GCMs

**Bill Fange**, Edison Electric Institute, Washington, D.C., an industry association of electric companies

**John Foster**, Canadian energy economist now working out of Washington for one of the World Bank's sister organizations, formerly was Hopper's right-hand man at Petro-Canada

**Thomas Karl**, scientist at the Commerce Department's National Oceanic and Atmospheric Administration ( as well as of the National Climatic Data Center, Asheville, **North Carolina**).

**Dr. Patrick Michaels**, Associate Professor of Environmental Studies at the University of Virginia in Charlottesville, **Virginia** and the Virginia State climatologist,

**Naval Research Laboratory**, Washington, D.C. -- Potential Contact:

- > **Judith Lean** -- looking at the role of the sun in climate change (i.e. the sun's overall brightness, the sun's ultraviolet rays, and the sun's storms of magnetic fields and

subatomic particles; claims that half the climate change from 1850 to now can be accounted for by the sun (per article in The Globe and Mail, September 24, 1997)

**Dr. Michael Oppenheimer**, a senior atmospheric scientist with the **Environmental Defense Fund**

**Bob Rhinestine**, independent consultant, Washington, D.C. -- may have good insight of international perspective re: what other countries are doing

**United States General Accounting Office**, GAO Building, Room 1842 (700 4th St. NW; corner of 4th and G Sts. NW), Washington, D.C. 20548

- > **Don Drach**, Coordinator for OAG visits; Tel: 202/512-4712
- > **Peter F. Guerrero**, Director, Environmental Protection Issues; Resources, Community, and Economic Development Division; Tel: 202/512-6111
- > **David Marwick** (works for Peter Guerrero); Tel: 202/512-6775
- > **William F. McGee**, Assistant Director; Resources, Community, and Economic Development Division

**White House Climate Change Task Force**, Washington, D.C. Potential Contact: **Dick Forrister**, also the Department of Energy's Special Advisor on Climate Change to Secretary O'Leary

**White House Council of Economic Advisers**, Washington, D.C. Potential contact: **Janet Yellen**, Chairman

**White House Council on Environmental Quality**, Washington, D.C. Potential contact: **Katie McGinty**, Chairman

**Timothy Wirth**, former U.S. senator, now with the State Department and considered to be President Clinton's lead man on the climate change issue

**World Resource Institute**, 1709 New York Ave., N.W., Washington, DC 20006 USA; Tel: 202/638-6300; Fax: 202/347-2796; Web: <http://www.wri.org> Potential contacts:

- > **Robert Repetto**, senior economist who believes that most economic computer models are not structured to deal with environmental questions
- > **Roger Dower**, carried out a US study on carbon taxes and determined that it would take a \$125US/ton carbon tax to stabilize GHG emissions.
- > **Duncan Austin**, Research Analyst, speaker at CERI Environment Energy Modelling Forum in Ottawa, Oct/97

*Other Locations within the United States:*

**Sallie Baliunas**, an astrophysicist at the Harvard-Smithsonian Centre for Astrophysics in

Cambridge, Mass. -- looking at the role of the sun in climate change (i.e. the sun's overall brightness, the sun's ultraviolet rays, and the sun's storms of magnetic fields and subatomic particles (per article in The Globe and Mail, September 24, 1997))

**Dr. Robert Balling**, a climatologist at **Arizona State University** who describes himself as a "healthy skeptic" on the question of global warming

**Prof. John Christy**, atmospheric scientist, University of **Alabama**, Huntsville

**Dr. James E. Hansen**, Director of the **NASA Goddard Institute for Space Studies** in **New York**

**Thomas Karl**, of the National Climatic Data Center, Asheville, **North Carolina**.

**Dr. Richard S. Lindzen**, Professor, Meteorology, **Massachusetts Institute of Technology**, Boston -- an atmospheric scientist who is considered by some to be a healthy skeptic or critic re: climate change or the greenhouse gas effect

**Amory Lovins**, "America's most ebullient apostle on energy efficiency"

**Thomas Moore**, Stanford University -- considered by some to be a 'skeptic' on climate change

**Prof. Ellen Mosley-Thompson**, Ohio State University scientist who told the annual meeting of the Association of American Geographers in Fort Worth, Texas in April 1997 that melting ice caps are more proof of a warming planet and that the evidence of climate change is stronger than ever

**National Center for Atmospheric Research** in Boulder, **Colorado**. Potential contacts:

- **Dr. Tom M.L. Wigley**, climatologist -- one of the chapter author's of the IPCC's 1994 (draft) report
- **Dr. Kevin Trenberth**, head of the climate analysis centre

**National Oceanic and Atmospheric Administration (NOAA)**. Potential contacts:

- > **Gerald Bell**, a meteorologist at NOAA
- > **A.E. (Sandy) MacDonald** of NOAA's lab in Boulder, Colo.;
- > **Jerry Mahlman**, Director of the Geophysical Fluid Dynamics Laboratory, NOAA
- > **Frank Quinn**, co-chair of Great Lakes-St. Lawrence Basin Project Steering Committee, Great Lakes Environmental Research Laboratory, NOAA, 2205 Commonwealth Blvd., Ann Arbor, Michigan, 48105-1593; Tel: (313) 741-2255; Fax: (313) 741-2003

**Dr. Benjamin B. Santer** of the **Lawrence Livermore National Laboratory** -- an author of the IPCC's chapter on causes of the warming (his study found a good match between the temperature differences from region to region predicted by computerized simulations of the

atmosphere's response to increased CO<sub>2</sub> and those actually observed)

**Dr. Stephen Schneider**, Professor, Department of Biological Sciences, Stanford University -  
- a long-time advocate of action to reduce human impact on the climate

**Brian Tinsley**, an atmospheric physicist at the University of Texas -- looking at the role of the sun in climate change (i.e. the sun's overall brightness, the sun's ultraviolet rays, and the sun's storms of magnetic fields and subatomic particles. (per article in The Globe and Mail, September 24, 1997))

**United Kingdom:**

**B.P. Petroleum Co.** -- recently staked a 'maverick' position in the oil industry, asserting that "corporate responsibility" required BP to help scientists explore the problem of climate change and to support energy alternatives such as solar power. Potential contact: **John Browne**, Chief Executive Officer

**Hadley Centre for Climate Research and Prediction**, University of East Anglia, in Bracknell, Berkshire, U.K. Potential contacts:

- > **J.F.P. Mitchell**, IPCC representative
- > **Sir John Horton**, Chairman of the Royal Commission on Environmental Pollution and Chairman of the IPCC Working Group #I
- > **David Parker**

**Paul Watkinson**, Global Atmosphere Division, Department of the Environment, Romney House, 43 Marsham Street, London, England SW1P 3PY; Tel: 171/276-8258; Fax: 171/276-8285

**Sweden**

**Bert Bolin**, Stockholm,, Chairman of the IPCC and former science advisor to the Swedish Cabinet

> **Other Foreign:**

**United Nations Environmental Program (UNEP)**

**World Meteorological Organization (WMO)**

**International Energy Agency (IEA)**

> **Other/Unknown:**

**Elizabeth Dodds**, considered to be knowledgeable on the science of climate change

## FEDERAL DEPARTMENTS AND AGENCIES

### NATURAL RESOURCES CANADA (NRCan):

580 Booth Street, Ottawa, K1A 0E4: Web: <http://www.nrcan.gc.ca>

**Jean C. McCloskey**, Deputy Minister

- Mike Cleland**, ADM Energy Sector; Tel: 996-7848; Fax: 992-1405 (member of NAICC)
- > **Sue Kirby**, Acting DG Energy Policy Branch, former head of Voluntary Challenge and Registry Program to about Dec/95 (also former Senior Director, Climate Change Task Force, development of NRCan's policy/strategy on CC), currently (since May/96) A/DG Energy Policy Branch; Tel: 996-7669; (member of NAICC)
    - **Jean Cooper**, Director, Environment Division, Energy Sector (19th Floor); Tel: 996-6474; Fax: 947-6799
    - **Deidre Hetherington**, Analyst, Renewable and Electrical Division, Energy Supply Branch; Tel: 996-2596; Fax: 995-0087
    - **Cyril Symes**, Energy Policy Branch; Tel: 996-4225; Fax: 947-6799
    - **Nick McCartney**, VCR Program official within NRCan; Tel: 996-6698; Fax: 947-6799
  
  - > **Bryan Cook**, DG Energy Technology Branch (formerly Efficiency and Alternative Energy Technology Branch): Tel: 995-8860;
    - **Allan Dolenko**, Director, Alternative Energy Division; Tel: 996-6162;
    - **Frank Campbell**, Director, Energy Efficiency Division; Tel: 996-5419 or 996-8201; Fax: 995-9584
  
  - > **Bill Jarvis**, DG Energy Demand Branch; Tel: 995-0081; Fax: 947-4120 (Secretary: Shirley Duk 995-0865)
    - **Nick Marty**, Director Demand Policy and Analysis; Tel: 996-6629; Fax: 947-4120
    - **Barbara Mullally-Pauly**, Chief, Retrofit Initiative; Tel: 995-2945
    - **John Cockburn**, Chief, Buildings and Equipment; Tel: 996-4359
    - **Lindsey Patrick**; Tel: 996-3800
  
  - > **Al Coombs**, Chief, International Energy Markets and Environmental Emissions: Tel: 996-7633 -- involved in the national emissions inventory
  
  - > **T. Wallace**, DG Economic and Financial Analysis Branch; Tel: 996-6952
    - **Neil McIlveen**, Director, Energy Forecasting, Energy Policy Branch; Tel: 996-8762 (or 995-8762?); Fax: 996-7837 -- responsible for the preparation of NRCan's "Canada's Energy Outlook : 1992-2020; Update 1994
    - **Alan Webster**, Chief, Industry and Supply Analysis; Tel: 996-0202

- **Phyllis Odenbach-Sutton**, Chief, Fiscal Policy; Tel: 996-7313

**Ron Sully**, ADM, Minerals & Metals

> **Gordon Peeling**, DG Mineral & Metals Sector; Tel: 992-4482; Fax: 943-8450

**Yvan Hardy**, ADM, Canadian Forest Service

> **John Forster**, Director, Policy Division; Tel: 997-1107 (ext. 1930) (Note: John is now Director, Sustainable Development and Environment Division - see separate listing)

> **Bob Stewart**, CC research coordinator for CFS; Tel: 997-1107

**Neil MacLeod**, Director General, Assets Management and Administrative Services Branch; Tel: 996-0981; Fax: 947-7785

- **Jamie W. Pitfield**, Director, Strategic Planning, Policy and Systems Division, Asset Management & Administrative Services Branch; Tel: 943-8101; Fax: 947-7785

- **Claude Menard**, Director, Facilities Management and Security (includes Fleet Management); Tel: 947-3309

**Richard Arsenault**, Manager, Office of Environmental Affairs; Tel: 995-3420; Fax: 995-5719

**Stephan Mercure** (992-6089) and/or **Keith Belinko** (995-4267) of CANMET re new science and technology (S&T) management framework

**John Forster**, Director, Sustainable Development and Environment (formerly Director, Policy Division, Canadian Forest Service); Tel: 992-4451; Fax: 996-0478

#### **ENVIRONMENT CANADA (EC):**

351 St. Joseph Blvd., Hull, Quebec, K1A 0H3; Tel: 819/997-2800 or 1-800-668-6767; Fax: 819/953-2225; Web: <http://www.ec.gc.ca/>

**D. Ian Glen**, Deputy Minister

**Tony Clarke**, ADM Environmental Protection Service; Tel: 997-1575; Fax: 953-9452 (member of NAICC)

> **Dennis Durrant**, special advisor in environmental protection, National Office of Pollution Prevention; Tel 953-4216

> **Chandra Prakash**, Head of Transportation Fuels, Pollution Prevention Directorate; Tel: 997-1614

> **David Egar**, Director General, Air Issues Branch

> **Ann MacKenzie**, Director (1997), Global Air Issues Branch; Tel: 994-5204; Fax: 994-0549; (sec. Ann Clement, Tel: 994-5204;

- **Richard Findlay**, Manager, Climate Change, Air Issues Branch; Tel 997-

1977

- **Jay Barclay**, Senior Economic Policy Advisor; Tel: (819) 997-2141; Fax: (819) 994-0549
- > **Lynn Berthiaume**; Tel: (819) 997-2375; Fax: (819) 994-9938 (member of NAICC)
- > **Jennifer Moore**, Director Economic Analysis Branch, Response Assessment Directorate, Tel: 997-5674
- **Art Jaques**, Head, Greenhouse Gas Emissions, Pollution Data Branch - involved in the national emissions inventory

**Corporate Policy Group:**

- > **Paul Hempel**, Associate Director Marketing, EPS Communications, Tel: 953-6603
- > **Francois Page**, DG Communications and Consultations, responsible for DOE's public education role re CC; Tel: 997-6820

**Gordon McBean**, ADM, Atmospheric Environment Service; Tel: 997-2686

- > **Rob Cross**, Advisor, Atmospheric Science Promotion, AES; Tel: 997-3840
- > **David Grimes**, Director, Policy, Program and International Affairs Branch, AES; Tel: 997-0142;
- > **Henry Hengeveld**, Senior Advisor on Climate Change and a member of the IPCC, 4905 Dufferin St., Downsview, Ontario, M3H 5T4; AES scientist, Toronto; Tel: (416) 739-4323
- > **Mike Hewson**, Advisor, Domestic and International Policy Coordination, AES, should be very knowledgeable about IPCC; Tel: 997-8856
- > **John Stone**, Director, Climate Research Branch, AES; Tel: 997-3805
- > **Canadian Climate Program Board (CCPB)**, 4905 Dufferin St., Downsview, Ontario, M3H 5T4; Tel: (416) 739-4431; Fax: (416) 739-4380. Potential contact(s): **Gary Smith**, University of Guelph, chairs the economic sub-committee which is looking at impacts of climate change.
- > **Roger Street**, Downsview, Ontario - involved in preparing a "Canada Country Study" of the impacts of climate change

**Ian Burton**, Director, Environmental Adaptation Research, Atmospheric Environment Service, Environment Canada, 4905 Dufferin St., Downsview, Ontario, M3H 5T4; Toronto; former Head of Environmental Studies at the University of Toronto -- has looked at how we can better adapt to climate change and how we have already adapted; Tel: (416) 739-4314; Fax: (416) 739-4297

**M.B. Latreille**, Corporate Manager, Shared Services and Environmental Stewardship, Administration Directorate, Corporate Services, 10 Wellington Street, 4th Floor, Terrasses de la Chaudiere, Hull, Quebec, K1A 0H3

**Linda D. Mortsch**, co-chair of Great Lakes-St. Lawrence Basin Project Steering Committee, Environmental Adaptation Research Group, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6; Tel: (905) 336-6417; Fax: (905) 336-8901

**Craig Ferguson**, Head of Project Team of Sustainable Development Strategies, 10 Wellington Street, 23rd Floor, Hull, Quebec, K1A 0H3; Tel: 953-1715 -- also departmental contact person for Sustainable Development Strategies

**AGRICULTURE AND AGRI-FOOD CANADA:**

Sir John Carling Building, 930 Carling Avenue, Ottawa, Ontario, K1A 0C5; Web: <http://www.aceisl.ncr.agr.ca>

**Barry Grace**; Tel: 759-7819 -- primary contact re forestry issues

**Christine Nymark**, Director, Environment Bureau, Adaptation and Grain Policy Branch, Tel: 759-7308 (or 995-5880); Fax: 613/759-7238 -- also departmental contact person for Sustainable Development Strategies; (Note: She may have moved around April 1997)

**Michael Presley**, Acting Director (April 1997), Environment Bureau, Policy Branch, (Room 367, Sir John Carling Building); Tel: 759-7308 (or 759-7307); Fax: 759-7238 -- also departmental contact person for Sustainable Development Strategies

**Mary/Mark? Ziegler**; Tel 995-5880

**CANADA MORTGAGE AND HOUSING CORPORATION (CMHC):**

**CANADIAN INTERNATIONAL DEVELOPMENT AGENCY (CIDA):**

200 Promenade du Portage, Hull (Quebec), K1A 0G4; Web: <http://www.acdi-cida.gc.ca>

**Mme. H. Labelle**, President

**Helene Giroux**, Senior Policy Analyst, Environment and Natural Resources Division, Policy Branch, (12th Floor); Tel: 994-4853; Fax: 953-3348 -- also departmental contact person for Sustainable Development Strategies

**CORRECTIONAL SERVICE OF CANADA (CSC):**

340 Laurier Avenue West, Ottawa, Ontario, K1A 0P9

**Gerry R. Hooper**, Assistant Commissioner, Technical and Information Management Services (Note 1)

**Ernie Hughes**, Head Assets Management (Note 1)

**Assistant Commissioner Y. Latta**, Assistant Commissioner Accountability and Performance Measurement

(Note 1: Individual appeared before the Standing Senate Committee on Energy, the Environment and Natural Resources on April 30/96 to discuss the implementation of the Alternative Fuels Act)

## **EXPORT DEVELOPMENT CORPORATION (EDC):**

### **FINANCE:**

L'Esplanade Laurier, 140 O'Connor Street, Ottawa, Ontario, K1A 0G5

**Ms. E. Bay-Coutts**, Deputy Chief Operations, Library Services/Coordinator Environmental Initiatives Program, Finance/Treasury Board

**Anne Park**, Director General, Economic Development Policy; Tel: 992-1527; Fax: 613/992-0387 -- also departmental contact person for Sustainable Development Strategies

**Larry Weatherley**, Chief, Environment Section, Economic Development Policy Secretariat, (12th Floor); Tel: 992-8230; Fax: 992-3648 -- also departmental contact person for Sustainable Development Strategies

### **FISHERIES AND OCEANS (F&O):**

200 Kent Street, Ottawa, Ontario, K1A 0E6; Tel: 613/993-0999;

**Martine Berubé**, Tel: 993-1936 -- also departmental contact person for Sustainable Development Strategies

**Ms. Linda Blackwell**, ADM, Corporate Services

**Dawn Nicholson-O'Brien**, Director General, Policy, Strategic Planning and Liaison; Tel: 990-0007; Fax: 990-2811

**Dick Stoddard**, A/Assistant Director and Chief, National Programs Division, Oceanography and Contaminants Branch, Tel: 990-0302

**Mr. John Walsh**, Senior Policy Advisor, Policy, Strategic Planning and Liaison; Tel: 990-3202; Fax: 990-2811 -- also departmental contact person for Sustainable Development Strategies

**FOREIGN AFFAIRS AND INTERNATIONAL TRADE (FA&IT):**

125 Sussex Drive, Ottawa, Ontario, K1A 0G2; Web: <http://www.dfait-maeci.gc.ca>

**Ruth Archibald**, Director General, Global and Human Issues Bureau (AGD); Tel: 613/944-0928; Fax: 613/944-1121

**Dick Ballhorn**, Director of Environmental Division, Tower B - 4th Floor; Tel: 992-6026 or 995-2167; Fax: 944-0064

**Collette Cardinal**, Fax: 944-1180

**Mr. T. Gilmore**, Stewardship Officer, Office of the Coordinator for Environmental Assessment and Stewardship

**Peter Fawcett**, Deputy Director of Environment, Tel: 992-0503 -- transferred to Copenhagen Summer 1997; or **Clement Ng**, Tel: 995-4765

**Honourable John Fraser**, Ambassador for the Environment; Tel: 613/944-0886; Fax: 613/944-0892 -- (Vancouver address: Suite 2000, 300 W. Georgia St., Vancouver, B.C., V6B 6E1; Tel: 604/666-5423; Fax: 604/666-7981)

**Paul Heinbecker**, ADM, Trade and Economic Policy Branch

**Jennifer Irish**, replaces Peter Fawcett as the Deputy Director of Environment

**Shirley Lewchuck**, Advisor to John Fraser

**Marie Bernard-Meunier**, ADM, Global Issues and Culture

**Mr. D'Arcy Thorpe**, Coordinator, Office of the Coordinator for Environmental Assessment and Stewardship (JEN); Tel: 944-0428 (or 994-0428?); Fax: 944-0432 -- also departmental contact person for Sustainable Development Strategies

**HEALTH CANADA (HC):**

Brooke Claxton Building, Tunney's Pasture, Ottawa, Ontario, K1A 0K9; Web: <http://www.hwc.ca>

Environmental Health Directorate; Room 1304A Brooke Claxton Building; Tel: 613/957-2991; Fax: 613/941-5366

**Brian Sammon**, Director of Sustainable Development, Special Project Directorate, Corporate Services; Tel: 941-3046; Fax: 952-7389 -- also departmental contact person for

## Sustainable Development Strategies

### **INDIAN AFFAIRS AND NORTHERN DEVELOPMENT (DIAND):**

10 Wellington Street, Hull, Quebec, K1A 0H4

**John Conduit**, Senior Advisor to Lands and Environment Branch for Sustainable Development, (Suite 1744); Tel: 997-8922; Fax: 953-3323 -- also departmental contact person for Sustainable Development Strategies

### **INDUSTRY CANADA:**

235 Queen Street, Ottawa, Ontario, K1A 0H5

**Jack Belletrytti**, Senior Advisor, Petroleum Products; Tel: 941-6219; Fax: 941-2463

**Lucien Bradet**, DG, Environmental Affairs; Tel: 954-3080

**Mr. H. Dudley**, Director, Facilities Management Services, Information Management and Accommodation Services Branch, Corporate Services Sector

**Philip Fleming**, Environmental Regulatory Affairs, Tel: 954-3014; Fax: 954-3419

**Ron Harper**, Director, Environmental Affairs Branch (7th Floor, East Tower); Tel: 954-3083; Fax: 613/952-9564

**Victoria Rowbotham**, Project Manager, (543B, East Tower); Tel: 954-1210; Fax: 952-8761 -- (formerly with NRCan) -- also departmental contact person for Sustainable Development Strategies

### **NATIONAL DEFENCE:**

National Defence Headquarters, 101 Colonel By Drive, Ottawa, Ontario, K1A 0K2

**Mr. J.L. Adams**, Infrastructure and Environment

**Forrest Smith**, Director, Environmental Stewardship, DND, Trebla Building, 473 Albert Street, 6th Floor, Ottawa, Ontario, K1A 0K2; Tel: 995-6529; Fax: 992-9422 -- also departmental contact person for Sustainable Development Strategies

**Col. John Stewart**, Director of Transportation and Movement (Note 1)

**Rear-Admiral K. Summers**, Chief Review Services (OAG Departmental Liaison Contact)

**Dennis Umrysh**, Director, Support Vehicle Program Management (Note 1)

**Ms. P. Warren**, Senior Policy Officer, Director General Environment  
(Note 1: Individual appeared before the Standing Senate Committee on Energy, the Environment and Natural Resources on April 30/96 to discuss the implementation of the Alternative Fuels Act)

**NATIONAL RESEARCH COUNCIL (NRC) OF CANADA:**

Montreal Road, Ottawa, Ontario, K1A 0R6

**Dr. S. Gill**, Environmental Coordinator, Realty Services, Administrative Services and Property Management Branch

**Mr. M. Proulx**, Director General, Administrative Services and Property Management Branch

**PRIVY COUNCIL OFFICE (PCO) and FEDERAL-PROVINCIAL RELATIONS OFFICE (FPRO):**

Blackburn Building, 85 Sparks Street, Ottawa, Ontario, K1A 0A3

**Morris Rosenberg**, Deputy Secretary to the Cabinet,

**Sharron Smith**, Environmental Officer, Economic and Regional Development Policy, PCO rep at the Workshop on Climate Change Analytic Studies; Tel: 613/957-5325; Fax: 613/957-5003; Room 521 of 85 Sparks -- responsible for managing the climate change file, i.e. maintaining a watching brief on the file at the Center and advising Cabinet on progress of the file

**Jack Stagg**, Assistant Secretary to the Cabinet, Economic and Regional Development Policy

**Shelagh Jean Woods**, Director, Economic and Regional Development Policy

**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA (PWGSC):**

Place du Portage, Phase III, 11 Laurier Street, Hull, Quebec, K1A 0S5

**Diane Basso**, Tel: 819/956-2310 -- also departmental contact person for Sustainable Development Strategies

**Paula Green**, Director, Corporate Policy; (Phase III, 15A-1); Tel: 956-0893; Fax: 956-4962 -- also departmental contact person for Sustainable Development Strategies

**Ms. M. Nadeau**, Audit Officer, Audit and Review Branch

**ROYAL CANADIAN MOUNTED POLICE (RCMP):**

1200 Vanier Parkway, Ottawa, Ontario, K1A 0R2

**Alfred A. Dupuis**, Officer in Charge, Materiel & Services Management Branch (Note 1)

**Insp. N. Hooper**, Officer-in-charge (O i/c) Program Support Branch

**Keith Paremain**, Officer in Charge, Fleet Program Administration (Note 1)

**A/Commr. Frank A. Richter**, Assistant Commissioner, Director, Finance and Supply (Note 1)

(Note 1: Individual appeared before the Standing Senate Committee on Energy, the Environment and Natural Resources on April 30/96 to discuss the implementation of the Alternative Fuels Act)

**TRANSPORT CANADA:**

Tower C, Place de Ville, 330 Sparks Street, Ottawa, Ontario, K1A 0N5

**Rick Delaney**, Executive Director, Environmental Stewardship Team; Tel: 990-3174

**Wayne Kauk**, Manager, Sustainable Development, Environmental Affairs, (18th Floor), Tel: 993-5065; Fax: 957-4260 -- also departmental contact person for Sustainable Development Strategies

**John Lawson**, Principal Transportation Data Analyst, Transportation Services, Economic Analysis; Tel: 993-4289; Fax: 389-3280

**Robin Lewis**, Senior Advisor, Intergovernmental Relations and Environmental Affairs, Tel: 993-8025

**Corey Peabody**, Senior Advisor, Environmental Affairs; Tel: 613/991-6409; Fax: 613/957-4260

**TREASURY BOARD SECRETARIAT (TBS):**

L'Esplanade Laurier, 140 O'Connor Street, Ottawa, Ontario, K1A 0R5

**John Arseneau**, Environment and Transportation Division, Economics Program Sector, Programs Branch, Tel: 957-0518

**Ms. E. Bay-Coutts**, Deputy Chief Operations, Library Services/Coordinator Environmental Initiatives Program, Finance/Treasury Board

**Al Clayton**, Executive Director, Bureau of Real Property and Material (or **Rick Andrews**, Senior Project Officer, BRPM) -- responsible for developing the federal fleet policy and guidelines and the regulations pursuant to Bill S-7, the *Alternative Fuels Act*

**Bill Cleavly** -- also departmental contact person for Sustainable Development Strategies

**Jeanne Langford**, Evaluation Analyst, (10th Floor, East Tower); Tel: 957-2236; Fax: 954-9094 -- also departmental contact person for Sustainable Development Strategies (effective April 10/97)

**Brigitte Zirgir**, Program Analyst, Environment and Transportation, Economic Programs Sector, (6th Floor, East Tower); Tel: 957-0537; Fax: 957-0557 -- also departmental contact person for Sustainable Development Strategies

## PARLIAMENTARY COMMITTEES (and/or Research Staff):

House of Commons Standing Committee on Natural Resources (Energy and Mines).

Potential contact(s): **Peter Berg**, Researcher, Tel: 995-3000

House of Commons Standing Committee on the Environment and Sustainable Development

- Research staff involved in the preparation of the Committee's 3 reports in 1990 and 1991 on "Our Changing Atmosphere" Series:

- > **Stephen Knowles**, Clerk of the Committee for 1st and 2nd reports, procedurals clerk; Tel: 992-2057
- > **Janice Hilchie**, Clerk of the Committee for 1st report, procedurals clerk; Tel: 996-1505
- > **Maija Adamson**, Clerk of the Committee for 2nd and 3rd reports, procedurals clerk
- > **Susan Baldwin**, Clerk of the Committee for 3rd report, procedurals clerk; Tel: 996-1532
- > **Robert Milko**, principal researcher for the 1st report on "Deadly Releases - CFCs" (may now be with Indian & Northern Affairs -- ecologist within the Biological Resources unit of the Environment and Renewable Resources Directorate at Terrasses de la Chaudiere, 10 Wellington Street, Hull, K1A 0H4; Tel: 994-7461)
- > **Dean Clay**, Researcher for all 3 reports
- > **Bruce Taylor**, Coordinator for 1st report
- > **Thomas Curren**, Library of Parliament research staff, for 2nd and 3rd reports; Tel: 995-7145
- > **Ian Jackson**, researcher for 3rd report

- **Charles Caccia**, current Chairman of the Committee

House of Commons Standing Committee on Public Accounts

Senate Committees. Potential contact(s): **Senator Colin Kenny**, Deputy Chair of the Senate Committee on Energy, the Environment and Natural Resources; Tel: 996-2877. He introduced a Bill S-7 to alter the federal government's purchasing policies to get 75% of federal vehicles running on alternative fuels.

## PROVINCIAL GOVERNMENTS:

(including provincial and territorial members of the National Air Issues Coordinating Committee (NAICC))

### Alberta:

- > **Environment:** 3rd Floor, Uxbridge Place, 9820-106th Street, Edmonton, T5K 2J6; Tel: (403)-427-0047 (or 944-0313); Fax: (403)-422-5136. Potential contact(s): **Harby Sandhu**; Tel and Fax as per above (member of NAICC)
- > **Energy:** 7th Floor, North Tower Petroleum Plaza, 9945-108th Street, Edmonton, T5K 2G6; Tel: (403) 427-5200 (or 427-7425); Fax: (403) 427-2278. Potential contact(s):
  - **John Donner**; Tel and Fax as per above (member of NAICC);
  - **Goldie Edworthy**, Manager, Energy Efficiency

### British Columbia:

- > **Environment:** 777 Broughton Street, Victoria, V8V 1X5; Tel: (250)- 387-9933 (or 387-1161); Fax: (250) 356-7197. Potential contact(s): **Doug Dryden**; Tel: (250) 356-6027; Fax: (250) 356-9836 (member of NAICC)
- > **Energy:** 617 Government Street, Victoria, V8V 1X4; Tel: (250)- 356-2154 (or 952-0152); Fax: (250) 387-1339. Potential contact(s):
- > **Warren Bell**, Manager, Energy Management Branch, Ministry of Employment and Investment; Tel: (250) 952-0244; Fax: (250) 952-0241 (member of NAICC)

### Manitoba:

- > **Environment:** **David Bezak**; Tel: (204) 945-7046; Fax: (204) 945-5229 (member of NAICC)
- > **Energy (Manitoba Energy and Mines):** **Clare Moster**; Tel (204) 945-1111; Fax: (204) 945-1406 (member of NAICC); or **Bob Dubreuil**, Director; or **Grant McVicar**, Manager

### New Brunswick:

- > **Environment:** **James Knight**; Tel: (506) 457-4848; Fax: (506) 453-2265 (member of NAICC)
- > **Energy:** **Don Barnett**; Tel: (506) 453-3862; Fax: (506) 453-3671 (member of NAICC)

### Newfoundland:

- > **Environment:** **Derrick Maddocks**; Tel: (709) 729-2555; Fax: (709) 729-1930

(member of NAICC)

- > **Energy** (Department of Mines and Resources): **Charles S. Lester**; Director, Tel: (709) 729-2339; Fax: (709) 729-2508 (member of NAICC), or **Dave Bazeley**, Senior Analyst -- both of the Policy Planning and Coordination Resources, Petroleum and Energy Resources Branch

**Nova Scotia:**

- > **Environment: Dan Hiltz**; Tel: (902) 424-5300; Fax: (902) 424-0503 (member of NAICC)
- > **Energy** (Department of Natural Resources): **Alan Crandlemire**; Tel: (902) 424-8118; Fax: (902) 424-0528 -- or **Allan Parker**, Manager, Energy Utilization Section, Tel: (902) 424-8175; Fax: (902) 424-7735 (member of NAICC); or **Pat Phelan**, Executive Director, or **Don Jones**, Director, Mineral and Energy Branch

**Northwest Territories:**

- > **Environment: Jim Sparling**; Tel: (403) 920-6396; Fax: (403) 873-0221 (member of NAICC)
- > **Energy: Terry Currie or S.Y. (Joe) Ahmad**; Tel: (403) 920-3230; Fax: (403) 873-0254/0354 (?) (member of NAICC)

**Ontario:**

- > **Environment and Energy**: 135 St. Clair Avenue West, Toronto, M4V 1P5; Tel: (416) 323-4321 Potential contact(s):
  - **Les Horswill**; Tel: (416) 323-4352; Fax: (416) 323-4410 (member of NAICC, Co-Chair)
  - **Peter Telford**, Senior Advisor, Intergovernmental Relations Office, Policy Division; Tel: (416) 323-4576 (?); Fax: (416) 323-4442 (member of NAICC)
  - **Kathryn Shaver**: Director (of environmental issues) Tel: (416) 323-5637; Fax: (416) 323-5661 (member of NAICC)
  - **Tony Rockingham**, Director, Energy Conservation and Liaison Branch, Policy Division; Tel: (416) 323-5626; Fax: (416) 323-5636
  - **Helle Tosine**, Director, Program Development Branch; Tel: (416) 314-3920; Fax: (416) 314-4128
  - **Rick Jennings**, Director, Economic Services; Tel: (416) 323-5934; Fax: (416) 323-5581
  - **Ed Grzescik** for information on the implementation of the Ontario Energy Efficiency Act, since he has been there since the Act was passed
  - **Barry Beale**, former head of the Ontario government's 'Green Community Initiative', who set up evaluations for this program, could have ideas on program evaluation related to energy efficiency
  - **George Zegarac**, Director, Industry Conservation Branch

- **Rusty Chute**, Team Leader, Energy, Macroeconomic Analysis and Forecasting Section, Policy Division

**Prince Edward Island:**

- > **Environment: Mark Victor or Todd Fraser**; Tel: (902) 368-5037; Fax: (902) 368-5830 (member of NAICC)
- > **Energy: Virginia Bulger**; Tel: (902) 368-5010; Fax: (902) 368-6582 (member of NAICC)

**Quebec:**

- > **Environment: Conrad Anotil**; Tel: (418) 644-3420; Fax: (418) 646-0001 (member of NAICC)
- > **Energy (Department of Natural Resources Quebec): Jacques Lebuis**; Tel: (418) 643-1299; Fax: (418) 643-8337 (member of NAICC); or **Gaby Polissois**, Director, Energy Efficiency Branch,

**Saskatchewan:**

- > **Environment: Larry Lechner**; Tel: (306) 787-6195; Fax: (306) 787-0197 (member of NAICC)
- > **Energy (Department of Energy and Mines): Dan McFadyen**; Tel: (306) 787-2523; Fax: (306) 787-5718 or **Malcolm Wilson**, Director; Tel: (306) 787-2618; Fax: (306) 787-8691; or **Howard Loseth**, Senior Engineer, Resource Policy and Economics Division

**Yukon:**

- > **Environment: Joe Ballantyne**; Tel: (403) 667-8177; Fax: (403) 667-4727 (member of NAICC)
- > **Energy: Cathy Cottrell-Tribes or Doug MacLean**; Tel: (403) 667-5387; Fax: (403) 667-8601 (member of NAICC)

**Canadian Council of Ministers of the Environment (CCME)**; Secretariat (based in Winnipeg); Tel: (204) 948-2156; Fax: (204) 948-2125; or **Liseanne Forand**, Director General; Tel: (204) 948-2120.

## COMPANIES WITH EXPERIENCE IN ECO-ECONOMICS (or program recipients):

### > Ontario/Quebec:

**3M Canada** -- using 1990 as a base year, all 3M operations are expected to reduce releases to air, land and water 90% by 2000, reduce waste generation 50% by 2000, and improve energy efficiency 20% per unit of production or per square foot of office and warehouse space by 1995. Potential contact(s): **Jack Brooks**, executive Vice-President of engineering.

**Dow Chemical Company.** Potential Contact: **Dennis Heydanek**

**Hydro Quebec.** Potential Contact(s):

- > **Luc Gagnon** (who is also on the Board of the Royal Society of Canada), Tel: (514) 289-2211; Fax: (514) 289-4931; or
- > **Denis Tanguay**, Tel: (613) 230-9408; Fax: (613) 230-9326

**Imperial Oil Ltd.**, 111 St. Clair West, Toronto; Tel: (416) 968-4111 or 968-0348. Potential contact(s): **W.R. Burton**, Senior Environmental Advisor, Toronto

**Noranda Inc.**, BCE Place, 181 Bay, Toronto, Ontario; Tel: (416) 982-7111. Potential contact(s): **Frank Frantisak**, Senior Vice-President of Environment.

**Ontario Hydro**, 700 University Ave., Toronto, M5G 1X6. Potential contact(s):

- > **Brian Kelly**, Director, Environment and Sustainable Development Division; Tel: (416) 592-2942; Fax: (416) 592-7097
- > **Andy Hoffer**, Advisor - SED Program, Programs and Support Department, Environment and Sustainable Development Division, Tel: (416) 592-6399, Fax: (416) 592-7097
- > **Steve Hounsell**, Environmental Responsible and Leadership Department, also a member of The Natural Step Canada's steering committee

**Quaker Oats Co. of Canada Ltd.** in Peterborough, Ontario which reduced its waste from 4.5 M kilos in 1986 to 450 K kilos in 1993. Potential contact(s): **Alan Wilson**, Manager of Engineering and Environmental.

**Rose Technology Group**, 255 Consumers Road, Suite 130, Willowdale, Ontario, M2J 1R2; Tel: (416) 756-1455; Fax: (416) 756-1825 -- selected as NRCan's energy services company to help it implement FBI projects in all NRCan buildings and facilities across the country. Potential contact(s):

- > **Ian Jarvis**, President; or
- > **L. Yee**, Client Support Services

**United Parcel Service (UPS)**; Tel (416) 736-3800. Potential contact(s): **Brian Kelly**, responsible for the fleet analysis in Canada

> **Western Canada:**

**AGRA Earth and Environmental Limited**, Calgary, Alberta Potential Contact(s):

- > **Catherine Pefhany**, Vice-President
- > **A. Edward Osborne**, Head of Environmental Audits and a Principal Consultant (QA/QS)

**Ballard Power Systems Inc.**, Vancouver -- has developed a (hydrogen) fuel-cell engine that emits no pollutants. Potential contact(s):

- > **Firoz Raul**, President
- > **Paul Howard**, Vice-President
- > **Mossadiq Umedaly**, Chief Financial Officer

**ESSA (Environmental and Social Systems Analysts) Technologies**, Vancouver and Richmond Hill. Potential contact(s):

- > **Verna Kerrs (?)** -- involved with forestry issues related to sustainable development;
- > **Lorne Grieg**, Director of operations in Eastern Canada;
- > **Chris Wedeles**, Manager of the Richmond Hill office

**Forintek Canada Corp.**, Vancouver (?) -- company helped develop (in partnership with NRCan 'Athena', a software package that allows architects to calculate the life-cycle environmental impacts, including demolition and final disposal, of building materials  
Potential contact(s): **Jim Dangerfield**, Vice-President of Western Division

**SaskPower**, which has plans for a 3MGW "wind farm"

**West Coast Energy**, 3400-666 Burrard St, Vancouver; Tel: (604) 488-8000. Potential contact(s): **Dr. Robert Falls** -- considered by some to be a very progressive company in its field (pipeline)

**Woodside Research Ltd.**, 840-202 6th Ave. SW, Calgary; Tel: (403) 269-6003. Potential contact(s): **John Shiry**, President

> **Atlantic Canada:**

## **ASSOCIATIONS CONCERNED ABOUT ENVIRONMENTAL ISSUES (or recipients of program benefits):**

### **> Ottawa-Hull Area:**

**Business Council on National Issues (BCNI)**, 806 - 90 Sparks, Ottawa, Ontario; Tel: 238-3727; Fax: 236-8679 Potential contact(s):

- > **Tom d'Aquino**, President; or
- > **Arthur Sawchuk**, co-chair of the BCNI's environmental task force and Chairman, President and CEO of Dupont Canada; or
- > **John Dillon**, Senior Associate, Policy and Legal Counsel

**Canadian Automobile Association**, 1775 Courtwood Cr., Ottawa; Tel: 226-7631. Potential contact(s):

- > **Michael McNeil**, President (1990); or
- > **David Leonhardt**, Manager, Public Affairs (1990)

**Canadian Centre For Policy Alternatives**, 804-251 Laurier Ave. West, Ottawa; Tel: 563-1341 (or 301-251 Laurier Ave. West, Ottawa; Tel: 235-0033). Potential contact(s):

**Canadian Chemical Producers' Association (CCPA)**, an association of over 60 Canadian companies which have pledged to voluntarily cut industry emissions by 43% nation-wide by 1997 (from 1992 levels) (per Winnipeg Sun article, Jan 20/94, Page 4), 805-350 Sparks St., Ottawa; Tel: 237-6215. Potential contact(s):

- > **Richard Paton**, President (1997)
- > **Jean Belanger**, former President; or
- > **Ray Mowling**, Vice-President of the Monsanto chemical company; or
- > **Gordon Lloyd**, Vice-President, Technical Affairs, CCPA

**Canadian Council for International Business and Environment Committee**, Suite 1160 - 55 Metcalfe St. (or Suite 1011 - 50 O'Connor St.), Ottawa, Tel: 230-5462. Potential contact(s):

**Canadian Earth Energy Association**, Ottawa. Potential contact: **Bill Eggertson**, Executive Director, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Earth Energy Heat Pumps"

**Canadian Electricity Association (CEA)**, Suite 1210, 66 Slater St., Ottawa, K1P 5H1; Tel: 230-9263; Fax: 230-9326 -- represents a core group of 36 utilities which account for about 95% of Canada's installed generating capacity. It also includes some 32 Canadian electrical manufacturers and several hundred other companies and individuals. Potential contact(s):

- > **Hans R. Konow**, President and CEO, CEA (also with General Electric, mailing address: Suite 1600 - 1 Westmount Square, Montreal, Quebec, H3Z 2P9; Tel: (514) 937-6181 (ext. 306); Fax (514) 937-6498; or

- > **Tony Kingsley**, Suite 1600 - 1 Westmount Square, Montreal, Quebec, H3Z 2P9; Tel: (514) 937-6181; Fax: (514) 937-6498; or
- > **Veikko Kammonen**, Vice-President, Customer Services, considered to be familiar with energy efficiency issues; Tel: (514) 934-6471; Fax: (514) 937-6498; or
- > **Pat McNeil**, Vice President, Public Affairs & Environment, member of the Stakeholder Advisory Committee for the NAICC, Tel: 230-9047; or
- > **Helen Sam**, works on energy efficiency in end use area rather than the front end

**Canadian Environment Industry Association (CEIA)**, Unit 204-6 Antares Drive, Nepean; Tel 723-3525; Fax 723-0060 -- represents businesses in the waste management and pollution prevention fields. Potential contact(s):

- > **Paul Antle**, Chair of CEIA and President of SCC Environmental Ltd.: Tel: (709) 726-0506; or
- > **Steve Hart**, former President, (former senior executive at DOE), or
- > **Ron Portelli**, President (1997)

**Canadian Global Change Program (CGCP) Board**, Suite 308 - 225 Metcalfe Street, Ottawa, Ontario K2P 1P9; Tel: 613/991-5639; Fax: 613/991-6996; E-mail: cgcp@rsc.ca; Web: <http://www.cgcp.rsc.ca/>. Potential contact(s):

- > **Hugh Morris**, Chair of the Board, also a mining engineer in Vancouver and a member of the Royal Society of Canada;
- > **Jeffrey Watson**, Director

**Canadian Institute of Forestry**, 151 Slater St., Ottawa; Tel: 234-2242. Potential contact(s): **J.H. Crayford**, Executive Director (1990)

**Canadian Labour Congress (CLC)**, 2841 Riverside Dr., Ottawa, K1V 8X7; Tel: 521-3400; Fax: 521-4655. Potential contact(s):

- > **Dave Bennett**; or
- > **Joe Pacholik**, CLC Environment Component-PSAC, 2181-A Thurston Drive, Ottawa, K1G 4Z2; Tel: 736-5545, ext. 228; Fax: 736-5537

**Canadian Manufacturers Association (CMA)**, 130 Slater St., Ottawa; Tel: 233-8423 (or 75 International, Toronto; Tel: (416) 798-8000). Potential contact(s): **Bent Larsen**, Vice-President (see also listing under CIPEC).

**Canadian Oxygenated Fuels Association**, 190 Bronson Ave., Ottawa; Tel: 232-9729 - which signed a MOU with NRCan/EMR and Chrysler on 29 August 1992 to demonstrate methanol as a viable fuel for passenger vehicles. The parties were to cooperate in the development, marketing and operation of the Canadian Light Duty Methanol Vehicle (CLDMV) Demo Program. Potential contact(s):

- > **Ray Colledge**, Chairman
- > **Michael MacNeil**, Executive Director

**Canadian Petroleum Products Institute (CPPI)**, 275 Slater St., Suite 1000, Ottawa, K1P 2X3; Tel: 232-3709; Fax: 236-4280 -- represents downstream petroleum refiners. Potential contact(s):

- > **Bob Clapp**, Vice-President, External Relations, Ottawa; or
- > **Brendan Hawley**, Vice-President, Public Affairs; or
- > **Bill Levy**, Vice-President
- > **Richard Dupuis**, Director, Government Affairs; or
- > **Earl McVicar**, Shell, P.O. Box 100, Station M, 630-3rd Avenue SW, Calgary, T2P 2H5; Tel (403) 691-3499; Fax: (403) 691-2224

**Canadian Pulp and Paper Association**, 50 O'Connor St., Ottawa; Tel: 233-2221. Potential contact(s):

- > **David McCaffrey**, or
- > **Dave Barron**, Vice-President Research & Technology, Montreal; Tel: (514) 866-6621 or
- > **Jean-Pierre Martelle**, also in Montreal; Tel: (514) 866-6621 or
- > **Brian McClay**, Senior Vice-President, Trade and Government Affairs, Montreal
- > **Peter Weirheuser** in Vancouver (?), Chair of CPPA's Energy Efficiency Group
- > **Esther Szyrkarsky**, Tel: (514) 866-6621, ext.206

**Canadian Wind Energy Council (or Association)**, 240-2415 Holly Lane, Ottawa; Tel: 737-0524 -- participated in the Climate Change Task Group process, exhibitor at Renewable Energy Conference in Ottawa in April 1997. Potential contact(s):

- > **Jeff Passmore**, President (see separate listing)
- > **Mary Ellen Jones**, Director, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Wind"

**Clean Environment Mutual Funds Ltd.**, Toronto -- a company which invests only in companies that have proven themselves in the environment field and that have sales of \$30 to \$40 million. Potential contact(s): **Ian Ihnatowycz**, President and portfolio manager

**Conference Board of Canada**, 255 Smyth Road, Ottawa; Tel: 526-3280; Fax 526-4857. Potential contact(s):

- > **Gilles Rheaume**, Vice-President and Director of the Business and Environment Research Program; also author of the Board's report (March/94) related to a carbon tax on fossil fuel; or
- > **James G. Frank**; Vice-President and Chief Economist
- > **Al Howatson**, Senior Research Associate, Business and the Environment Research Program
- > **Brian Guthrie**, Director, Business and the Environment Research Program

**Energy Council of Canada**, Suite 305, 130 Albert Street, Ottawa, K1P 5G4. (or 400-30 Colonnade Road, Nepean, Ontario, K1N 7B7); Tel: 727-1881 Potential contact(s): **E. P. Cockshutt**, Tel: 952-6469; Fax: 952-6470

**Federation of Canadian Municipalities (FCM)**, including the **20% Club Secretariat**; 24 Clarence St., Ottawa, Tel: 241-5221. Potential contact(s): **Nichole Richer**, staff person who coordinates municipal participation

**Friends of the Earth**, national HQ in Ottawa, 251 Laurier Ave. West, Ottawa, K1P 5J6; Tel: 230-3352 Potential contact(s):

- > **Susan Tanner**;
- > **Beatrice Olivastri**, Past-President
- > **Jeremy Byatt**, Policy Director; or
- > **Kai Millyard**, Policy Director (1989); or
- > **Phillip Jessup**, Energy Policy Advisor (1989);
- > **Rob Kerr**,

**IBI Group**, 200 McLaren Street, Ottawa; Tel: 234-1334. Potential contact(s): **Neil Irwin**, Managing Director, 230 Richmond St., 5th Floor, Toronto, Ontario; Tel: (416) 596-1930; Fax: (416) 596-0644

**International Development Research Centre (IDRC)**, a government of Canada organization, 250 Albert St., P.O. Box 8500, Ottawa, Ontario, K1G 3H9; Tel: 613/236-6163; Fax: 613/238-7230; Web: <http://www.idrc.ca>. Potential contact(s):

- > **David Runnalls**, Senior Adviser to the President, Ottawa-based, and author of IISD's "Winnipeg Principles" paper, an Ottawa-based consultant and a member of the Ontario Roundtable on the Environment and the Economy; also has done work for DOE on integration of environmental considerations; Tel: 238-2296; Fax: 238-8515
- > **Keith Bezanson**, President; or
- > **David Brooks**, Director, Environmental Affairs (1989), created the Office of Energy Conservation in the 1970s, left EMR in late 1970s; also does work for Friends of the Earth; or
- > **Ken Babcock**, Senior Scientific Advisor (former ADM of Geological Survey of Canada)

**Mining Association of Canada**, 1105-350 Sparks St., Ottawa; Tel: 233-9391. Potential contact(s):

- > **George Miller**, President ;
- > **Robert J. Keyes**, Vice-President, Economic Affairs; or
- > **Walter Segsworth**, Vice-President; or
- > **Jacques Hudon**; or
- > **Justyna Laurie-Lean**, Vice-President, Environment and Health

**National Round Table on the Environment and the Economy (NRTEE)**, Suite 200 - 344 Slater Street, Ottawa, Ontario, K1R 7Y3; Tel: 992-7189; Fax: 992-7385; E-mail: [admin@nrtee-trnee.ca](mailto:admin@nrtee-trnee.ca); Web: <http://www.nrtee-trnee.ca>. Potential contact(s):

- > **Stuart Smith**, Chair of NRTEE and President, Philip Utilities Management Corporation.; Tel: (905) 521-1600; Fax: (905) 521-9613;
- > **Dee Parkinson**, President of NRTEE, also President of CS Resources Limited

- > **David McGuinty**, Executive Director and CEO; Tel: 992-7155
- > **Jane Inch**;
- > **Mr. E. Nyberg**, Corporate Secretary, Secretariat
- > **Nancy Averill**, Policy Consultant, Tel: 943-0399

**The Royal Society of Canada**, 225 Metcalfe, Suite 308, Ottawa, K2P 1P9; Tel: 991-5639 or 991-0175 (for a direct line to Karen Mortimer); Fax: 991-6996 -- published report entitled "Implications of Global Change for Human Health". Potential contact(s):

- > **Jeff Watson**, Executive Director
- > **Tom Shillington**
- > **Hugh Morris**, Chair of the Canadian Global Change Program (CGCP) Board, also a mining engineer in Vancouver
- > **Claude Lefrancois**, main contact at the Royal Society on Climate Change; Tel: 991-5641

**Sierra Club of Canada**, Suite 602, 1 Nicholas St. Ottawa, Ontario, K1N 7B7; Tel: 241-4611; Fax: 241-2292. Potential contact(s):

- > **Louise Comeau**, Climate Change Campaign Director; also member of Canadian Climate Action Network (CANet); or
- > **Elizabeth May**, Executive-Director; also a member of the National Round Table on the Environment and the Economy (two year term, effective April 28, 1997)

**Transportation Association of Canada**, 2323 St. Laurent Blvd., Ottawa, Ontario, K1G 4K6; Tel: 736-1350; Fax: 736-1395 Potential contact(s): **John Hartman**, Director of Transportation Forums

> **Ontario (excluding Ottawa-Hull area):**

**Canadian Electrical Manufacturers Association**, 679 Bloor West, Toronto; Tel: (416) 533-7800 Potential contact(s):

**Canadian Energy Efficiency Alliance (CEEA)**, 17 Alcorn Avenue, Toronto, Ontario, M4V 1E5; -- a non-profit consortium of various companies and groups (including utility companies, financial institutions, consumer and environmental groups) that hopes to provide leadership, education and technical assistance to any company or organization that wants to learn how to save energy, based in Toronto. The CEEA's goals include: advocate for regulatory reform that will result in the increased use of energy-efficient products; establish a national energy efficiency centre that will showcase the best of North American energy technology; and facilitate the import and export of energy-efficient products and services. Potential contact(s):

- > **Bruce Lourie**, Executive Director, also a consultant with Lourie and (Peter) Love Consultants; Tel: (416) 763-1149; Fax: (416) 762-6707

**Canadian Gas Association (CGA)**, 243 Consumers Road, Suite 1200, North York, Ont.,

M2J 5E3; Tel: (416) 498-1994; Fax: (416) 498-7465 -- comprised of about 320 members representing distribution, pipeline and transmission companies. Potential contact(s):

- > **John Klenavic**, Vice-President, Policy (extension 334); or
- > **Robert Cummings**, Director, Gas-Vehicle Development

**Canadian Industrial Energy End-Use Database and Analysis Centre (CIEEDAC)**

Potential contact(s):

**Canadian Industry Program for Energy Conservation (CIPEC)**, 75 International Blvd., Suite 400, Toronto, M9W 6L9; Tel: (416) 798-8155; Fax: (416) 798-9174. Potential contact(s):

- > **Chuck Hantho**, Chairman of the Policy Board of CIPEC (see separate listing); or
- > **Vince (Bent) Larsen**, Executive Director, Tel: (416) 798-8155 (see also listing under CMA)
- > **Peter Torbert**, Chairman of the Council of Task Forces of CIPEC; Tel: 519/339-0337 (Sarnia); Fax: 519/339-9857

**Canadian Institute for Energy Training**; Tel: (905) 721-3050; Fax: (905) 721-3182 -- this organization delivers NRCan's Canadian Energy Management and Environmental Training (CEMET) Program. Potential contact(s):

**Canadian Institute for Environmental Law and Policy**, 400-517 College Street (near Bathurst Street), Toronto, M6G 4A2; Tel: (416) 923-3529. Potential contact(s):

- > **Jack Gibbons**, or
- > **Ann Mitchell** or
- > **Mark Winfield**, Director of Research, Toronto

**Canadian Institute of Mining, Metallurgy and Petroleum (CIM)**, 555 Burnhamthorpe road, Toronto; Tel: (416) 622-3130. Potential contact(s): **Bill Almdal**, President

**Canadian Standards Association**, 178 Rexdale Blvd., Toronto, Ontario; Tel: (416) 747-4000. Potential contact(s):

- > **John Wolfe**, Director of Environmental Programs and Business Development; Tel: (416) 747-4003
- > **Allen Knight**, Manager of Business Development, -- invited speaker to the 1994 IIA International Conference in Toronto in June 1994 on Measuring, Assessing and Managing Environment Performance; involved in the process for standard setting of measurement and assessment

**Canrom Photovoltaics Inc.**, Hamilton -- has developed "polycrystalline cadmium telluride" modules or shingle-sized, film-coated glass modules to replace roof shingles and generate electricity for household use.. Potential contact: **Nick Dalacu**, President

**City of Toronto**, which has established the \$23 million Toronto Atmospheric Fund (Tel:

416/392-0271) which provides loans and grants for projects aimed at reducing GHG emissions. Potential contact: **Jack Layton**, Councillor, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "No More Smoke in the Big Smoke"

**Climate Action Network (CANet)**, a coalition of some 80 non-government environmental groups working together to stop global warming. Potential contacts: **Sally Cavanagh** (See also Louise Comeau, Richard Gendron, and Rob MacIntosh)

**Consumer Gas Association** -- considered by some to have one of the best natural gas conservation programs, along with BC Gas, in Canada. Potential contact(s): **Mark Butler**; Tel: (416) 496-7186.

**Chrysler Canada**. Potential contact: **John Mann**, General Manager, Automotive Research and Development Centre

**Energy Interface**, a Toronto energy service company (ESCO) which has several million dollars of projects underway, mainly in the public sector but expanding into the private sector. Potential contact(s): **Tom Tamblyn**

**Energy Probe**, 225 Brunswick St., Toronto; Tel: (416) 964-9223 -- a national environmental and consumer advocacy group. Potential contact: **Thomas Adams**, Director of Utility Research

**Environmental Monitor**, a Canadian-based polling organization.

**Exxon Technology Corp.**, Ajax, Ontario. Potential contact(s): **Thomas Fairfull**, Chief Executive

**General Motors of Canada Limited**. Potential contact(s):

- > **Bruce Reid**, Director, Office of the Environment
- > **Santo Giardina**, Senior Analyst, Public and Government Relations (1997)

**Greenpeace Canada**, 185 Spadina, Toronto, M5T 2C6; Tel (416) 597-8408; Fax: (416) 597-8422. Potential contact(s):

- > **Kevin Jardine**, in Calgary, author of the study entitled The Carbon Bomb (re: global warming); or
- > **Francois Tanguay**, Greenpeace Quebec; or
- > **Bill Hare**, climate policy director (may be with Greenpeace International or Greenpeace US)

**Habi Technical**. Potential contact(s): **Mike Lio**, familiar with the building side and building codes

**Heating, Refrigerating and Air Conditioning Institute of Canada**, 5045 Orbitor Drive,

Mississauga; Tel: (905) 602-4700. Potential contact(s): **Warren Heeley**, President (1990)

**INCO Ltd.**, Toronto; Tel: (416) 361-7860; Fax: (416) 361-7680 Potential contact(s):  
**Charlie Ferguson**, Vice-President

**Independent Power Producers' Society of Ontario**. Potential Contact: **Paul McKay**,  
Director, former Senior Policy Advisor, Ontario Minister of Energy

**Inland Waters Research Institute (?)**, Burlington, Ontario; re: research on the Great Lakes  
(could be part of DOE?) Potential contact(s):

**International Council for Local Environmental Initiatives (ICLEI)**, Tel: (416) 392-1462  
-- which has established a Green Fleets (transportation demand management, efficiency and  
alternative fuels) program in which several major Canadian municipalities participate in.

Potential contact(s):

- > **Phil Jessup** (who is also associated with the Friends of the Earth; has done a lot of work  
on co-operative arrangements with municipalities)
- > **Robert Kerr**; Tel: 416/392-0238

**Motor Vehicle Manufacturers Association**, 25 Adelaide St. East, Suite 1602, Toronto,  
M5C 1Y7; Tel: (416) 364-9333; Fax: (416) 367-3221. Potential contact(s): **Mark Nantais**,  
President

**Nature Conservancy of Canada**, 110 Eglinton West, Toronto; Tel: (416) 932-3202.  
Potential contact(s): **John Eisenhauer**, Executive Director

**Ontario Environment Commissioner**, Toronto. Potential contact(s): **Eva Ligeti**,  
Commissioner

**Ontario Forest Industries Association**, 130 Adelaide West, Toronto; Tel: (416) 368-6188.  
Potential contact(s): **Marie Rauter**, President

**Ontario Mining Association**; Tel: (416) 364-5986. Potential contact(s): **Lorne Ames**,  
Chairman, also Vice-President for Human Resources at Inco Ltd.

**Ontario Natural Gas Association (ONGA)**, Toronto. Potential contact(s):

**Ontario Round Table on the Environment and the Economy**, Eaton Centre, 1 Dundas St.  
West., Suite 2505, Toronto; Tel: (416) 327-2032. Potential contact(s): **Ken Ogilvie** (see  
separate listing, now with Pollution Probe)

**Pollution Probe**, 12 Madison Avenue, Toronto, M5R 2S1; Tel: (416) 926-1907; Fax: (416)  
926-1601. Potential contact(s):

- > **Brian Pannell**, executive-director and a Winnipeg environmental lawyer; is a member of

- federal and Manitoba environmental advisory committees; or
- > **Ed Babin**, chairman of Pollution Probe; or
  - > **David McRobert** ; or
  - > **Ken Ogilvie**, Executive Director (formerly with the Ontario Round Table on the Environment and the Economy) -- **Member of the CESD's Panel of Environmental Advisors**; also member of the National Round Table on the Environment and the Economy (for a 2 year term, effective April 28, 1997)

**SOREMA Management Inc. or SOMERA Canadian** - insurance/re-insurance company; 70 York St., Suite 1520, Toronto, M5J 1S9; Tel: (416) 364-5048; Fax: (416) 364-1788).

Potential contact(s):

- > **Angus Ross**, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "The Insurance Industry: For Whom the Bell Tolls"

**Synergistics Consulting**, Toronto -- in the last 8 years has conducted over 30 public opinion surveys on environmental issues. Potential contact(s):

- > **Doug Miller**, President: or
- > **Marion Fraser**

> **Quebec (excluding Ottawa-Hull area):**

**Canadian Institute for Business and the Environment (CIBE)**, 510 Victoria Ave., Montreal, H3Y 2R5; Tel: (514) 369-0230; Fax: (514) 369-3282 -- a think tank that represents pollution control equipment makers. Potential contact(s):

- > **Gary Gallon**, President; Home Tel: (514) 489-4316

**Canadian Pulp and Paper Association**, 50 O'Connor St., Ottawa; Tel: 233-2221. Potential contact(s):

- > **David McCaffrey** or
- > **Dave Barron**, Vice-President Research & Technology, Montreal; Tel: (514) 866-6621 or
- > **Jean-Pierre Martelle**, also in Montreal; Tel: (514) 866-6621

**C.E.R.C.L.E.**, CP 1200, Sherbrooke, Que, J1M 5L3. Potential contact(s): **Richard Gendron**, 2489, chemin Lemire, Fleurimont, Quebec, J1E 4C2; Tel: (819) 823-4161 (or 564-8604); Fax: (819) 564-4025; member of Canadian Climate Action Network (CANet)

**Commission for Environmental Co-operation (CEC)**, 393, rue St-Jacques Ouest, Bureau 200, Montreal, Quebec, H2Y 1N9; Tel: 514/350-4300; Fax: 514/350-4314 -- the Montreal-based body responsible for helping Canada, the U.S. and Mexico meet their obligations under the North American Agreement on Environmental Co-operation (NAAEC, the side accord to

NAFTA), it has 15 projects with a total budget allocation of \$2,687,000 (U.S.) grouped into 4 priority areas: reducing risk to human health; **climate change and energy efficiency** (including an examination of North American Co-operation on GHG Emissions Trading to evaluate the potential for a GHG emissions trading system in North American); habitat and species protection; and the North American Greenlane.

SVP one of Quebec's environmental groups. Potential contact(s): **Daniel Green**, President

#### **WESTERN CANADA:**

**Clean Air Strategic Alliance**, Secretariat, 6th Floor, Standard Life Centre, 10405 Jasper Avenue, Edmonton, Alberta, T5J 3N4; Tel: (403) 427-9793; Fax: (403) 422-3127. Potential contact(s): **Peter Melnychuk**, President and Alberta's Deputy Minister of Environmental Protection

**Western Canadian Wilderness Committee**. Potential contact(s): **Gray Jones**, Executive Director --concerned about forestry issues (e.g. clear cutting)

#### **> Manitoba:**

**International Institute for Sustainable Development (IISD)**, 6th Floor, 161 Portage Ave. East, Winnipeg; Tel: 204/958-7700; Fax: 204/958-7710; Web: <http://www.iisd1.iisd.ca> -- a think-tank that merges environmental and economic issues, formed in 1990 as part of Canada's response to the Brundtland Report. Potential contact(s):

- > **Jim MacNeill**, Chairman
- > **Dr. Arthur John Hanson**, President and CEO of IISD; also a member of the National Round Table on the Environment and the Economy (for a 3 year term, effective April 28, 1997), the China Council for International Cooperation on Environment and Development, and other international bodies
- > **Mr. A.M. (Sandy) Gillies**, who promotes "eco-taxes
- > **Stephan Barg** -- spoke at the 1994 IIA International Conference in Toronto in June 1994 on Lessons from Reality - Global Perspective, avoiding local liabilities is only part of the area of concern; assisting in the development of products, operations and goals which approach sustainable development objectives is becoming more and more attractive; also spoke on Environment and Ethics - The Future

**National Energy Conservation Association**, Winnipeg. Potential contact(s): **Laverne Dalglish**

#### **> Saskatchewan:**

**John Reid**, Vice-President of Corporate Services for **Wascana Energy**, 1771 Victoria Ave., Regina; Tel: (306) 781-8200

**Saskatchewan Environmental Society**, 103-219 22nd St. East, Saskatoon; Tel: (306) 665-1915. Potential contact(s): **Bert Weichel**, Past-President

**Saskatchewan Research Council**, Saskatoon -- involved in impacts of climate change especially on forestry and agriculture. Potential contact: **Eileen Wheaton** (?) Tel: 306/933-8179

**John Stewart**, University of Saskatchewan -- has studied the effects of climate change on agriculture and soils

> **Alberta:**

**Alberta Wilderness Association**, 455-12 St. NW, Calgary; Tel: (403) 283-2025. Potential contact(s): **Glenda Hanna**, Vice-President -- concerned about forestry issues (e.g. clear cutting vs "shelter cutting", i.e. a method that provides for logging in areas sheltered from prevailing winds and minimizing access roads)

**Alliance for Responsible Environmental Alternatives (AREA)**; 350 Albert Street, Suite 1600, Box 74, Ottawa K1R 1A4 - or - 1840 Manulife Place, 10180-101 Street, Edmonton, T5J 3S4; Tel: (403) 944-0695; Fax: (403) 441-9849 -- this is an industry coalition of about 50 companies and organizations from across Canada (primarily in the oil and gas industry) that supports "well-reasoned climate change initiatives that maintain and enhance employment opportunities and the standard of living for Canadians". Potential contact(s): **Tom Vant**, Executive Secretary, Tel: (403) 944-0695

**Canadian Association of Petroleum Producers (CAPP)**, 350-7th Avenue St. SW, Suite 2100, Calgary, T2P 3N9; Tel: (403) 267-1100; Fax: (403) 261-4622. -- comprised of about 190 explorer and producer companies in the upstream petroleum industry; their mission is to foster the economic well-being and sustainability of the upstream petroleum industry in an environmentally, technically and socially responsible manner. Potential contact(s):

- > **David J. Manning**, President; speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Delivering on VCR through Unconventional Partnerships"
- > **S. Barry Jackson**, 1997 Chairman of CAPP, also President and CEO of Crestar Energy
- > **Chris Peirce**, Vice-President, Strategic Planning; Tel: 403/267-1147; Fax: 403/266-3147
- > **David O'Brien**
- > **Grant Billing** (CEO of Norcen Energy Resources Ltd.), former Chairman of CAPP;
- > **Bill Harlan**, Vice-President of environment and operations
- > **Gary Webster**, Manager of Environment, Tel: (403) 267-1146; Fax: (403) 266-3214; or
- > **Jim Swiss**, senior environmental coordinator

**Canadian Energy Pipeline Association (CEPA)**, 1650 - 801 6 Ave. SW, Calgary, Alberta; Tel: 403/221-8777; Fax: 403/221-8760 -- represents 12 of Canada's major oil and gas pipeline transmission companies which transport more than 95% of the natural gas and crude oil produced in Canada. Potential contact(s):

- > **Bruce Simpson**, Chairman; or
- > **Bob Hill** (sec. Bonnie Stockway)

**Canadian Energy Research Institute (CERI)**, #150, 3512 - 33rd Street N.W., Calgary, T2L 2A6; Tel: (403) 282-1231; Fax: (403) 284-4181. Potential contact(s):

- > **Gerry Angevine**, President; or
- > **Doug Bruchet**, Senior Director, Environment-Energy Research, responsible for the climate change file at CERI
- > **Harry Schaefer**, Board Member; or
- > **Adrienne Kwaczek**, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Competitive Electricity Markets for Renewables: Charting New Frontiers"

**Canadian Wind Energy Association**, #100, 3553 31st N.W., Calgary, Alberta; Tel: (403) 289-7713; Fax: (403) 282-1238. Potential contact(s):

- > **Jeff Passmore**, President (see separate listing)
- > **Jason Edworthy**

**Coal Association of Canada (CAC)**, 502-205 9th Ave. SE, Calgary; Tel: (403) 262-1544 -- represents Canada's coal industry whose members produce over 95% of the nation's coal and much of the electricity generated by coal in Canada. Potential contact(s):

- > **Mike P. Lipkewich**, Chairman; or
- > **Donald Downing**, President;
- > **Jim Wood**, Director

**Environmental Education Society of Alberta (EESA)**, Edmonton, Alberta; Tel: 403/421-1497 Potential contact: **Jim Martin**

**Environmental Law Centre**, Suite 204, 10709 Jasper Avenue, Edmonton, Alberta, T5J 3N3; Tel: 403/424-5099; Fax: 403/424-5133. Potential contact: **Howard Samoil**

**Nova Gas Transmission Ltd.**, Calgary, Alberta. Potential contact: **Leah Lawrence**, Community Resources; Tel: 403/290-7152; Fax: 403/290-7227

**Pembina Institute for Appropriate Development**, Box 7558, Drayton Valley, Alberta, T7A 1S7; Tel: (403) 542-6272; Fax: (403) 542-6464 Potential contact(s):

- > **Rob MacIntosh**, Policy Director, also member of Canadian Climate Action Network (CANet);
- > **Robert Hornung**, Climate Change Program Director -- effective May 1997 located in Ottawa sub-office -- 500 - 251 Laurier Avenue West, **Ottawa**, Ontario, K1P 5J6; Tel:

613/235-6288; Fax: 613/235-2190;

- > **Stephanie Cairns**, who wrote a paper for the National Round Table on Energy and the Environment, entitled Fine Tuning Taxes for Energy Eco-efficiency, related to the need for a "level playing field" between fossil fuels and alternative transportation fuels

**Petroleum Communication Foundation**, 214 - 311 6 Ave. SW, Calgary, Alberta; Tel: 403/264-6064; Fax: 403/237-6286 -- **Len Bradley**, Executive Director

**Petroleum Information Canada**, Calgary, Alberta -- company maintains an extensive petroleum industry database, providing integrated data, information services and data management to the energy industry worldwide. Potential contacts:

- > **David Richard**, General Manager
- > **Ken Dalton**,

**Prairie Acid Rain Coalition** (Friends of the Old Man River), Box 1288, Rocky Mountain House, Alberta, T0M 1T0; Tel: (403) 845-4667; Fax: (403) 845-5377. Potential contact(s): **Martha Kostuch**

**Propane Gas Association of Canada**, Calgary.

**Rocky Mountain Ecosystem Coalition**. Potential contact(s):

- > **Mike Sawyer**, Executive Director; or
- > **Amory Lovins**, Director of Research (1990)

**Shell Canada Limited**, 400 - 4th Avenue S.W., P.O. Box 100, Station "M", Calgary, Alberta, T2P 2H5; Potential contact(s):

- > **Charles W. Wilson**, President and CEO; or
- > **Dr. Linton L. Kulak**, Director, Health, Safety & Environment; Tel: (403) 691-2091; Fax: (403) 691-3321

**Society for Environmental Education and Development (SEEDs)**, Edmonton, Alberta; Tel: 403/424-0971. Potential contact: **Dan Stocker**

**The Banff Centre for Management**, Box 1020, Station 45, Banff, Alberta, T0L 0C0; Tel: 403/762-7583 or 1-800-727-3842; Fax: 403/762-6422. Potential contact:

- > **Jerry Lemmon**, Director, Resource & Environment Leadership Programs

**TransAlta Utilities Corporation** (a subsidiary of TransAlta Corporation), 110 - 12th Avenue S.W., Box 1900, Calgary, T2P 2M1. -- sponsored a Symposium on the Science of Climate Change in Calgary on 28 Sept. 95 and is pursuing Joint Implementation projects. Potential contact(s):

- > **Ken McCready**, President of TransAlta Utilities Corporation
- > **Peter Dickey**; Tel: (403) 267-7620; or
- > **Bob Buchanan** or **Bev Kovacs**; Tel: (403) 282-1231.

- > **Jim Leslie**, Senior Vice-President Sustainable Development;
- > **Marcy A. Cochlan**, Sustainable Development Economist, Tel: (403) 267-2199; or (403) 267-7372
- > **Walter Saponja**, President and CEO, TransAlta Corporation

**World Coal Institute**, (appears to be based in Calgary). Potential contact(s): **Jack Morrish**, Chairman

> **British Columbia:**

**BC Hydro**, Head Office: 6900 Southpoint Drive, Burnaby, BC, V3N 4X8; Tel: (604) 528:1600 -- which initially established the PowerSmart program to save energy, especially in view of the fact that it does not have any excess or surplus capacity (PowerSmart Information and Marketing line is (604) 540-8883). Potential contact(s):

- > **Louis Comeau**, Chairman of PowerSmart (see separate listing)
- > **Derrick Enrique** (or Henriques, Manager, Technology and DSM); or **Mike Gwilliam**, Manager, Power Smart, BC Hydro
- > **Areef Abraham**, Director, Trade Ally Programs, BC PowerSmart contact(s); Tel: (604) 688-4637
- > **Gail Sexsmith**, VP, Customer Services and representing BC Hydro on the board of Power Smart Inc.
- > **John Rich**, Environmental Studies Coordinator, Corporate Environmental Resources, Safety and Environment; Tel: 604/528-2716; Fax: 604/528-7740

**Globe Foundation of Canada**, a Vancouver-based group that promotes environmental businesses abroad. Potential contact: **John Wiebe**

**Greater Vancouver Regional District**, 4330 Kingsway, Burnaby, BC, V5H 4G8. Potential contact: **Morris Mennell**, Administrator, Program Planning and Development, Air Quality Department, 4720 Kingsway, 17th Floor, Metrotower II Eaton Centre; Tel: 604/436-6740; Fax: 604/436-6707

**David Suzuki Foundation**, Suite 219, 2211 West 4th Avenue, Vancouver, B.C., V6K 4S2; Tel: 604/732-4228; Fax: 604/732-0752

- > **David Suzuki**
- > **Jim Fulton**, Executive Director; also a former NDP MP and long-time member of the Standing Committee on the Environment;
- > **David Hocking**, Communication Director

**ATLANTIC CANADA:**

**Conservation Council of New Brunswick**, 180 St. John Street, Fredericton, N.B., E3B 4A9; Tel: (506) 458-8747; member of Canadian Climate Action Network (CANet). Potential contact(s): **David Coon**

**Ecology Action Centre, Halifax.** Potential contact: **David Brickman**

**New Brunswick Mining Association.** Potential contact(s): **Bert Boivin** (also General Manager of Potacan Mining Company)

> **Unknown - Canadian:**

**Canadian Association of Energy Service Companies.** Potential contact(s):

- > **Allan Levy**, Chairman or President;
- > **Marion Fraser** and/or
- > **Mark S. Anshan** (signatories to Ontario's Energy Efficiency Consortium report: Accelerating Energy Efficiency in Ontario)

**Canadian Environmental Law Association (CELA)**, 517 College Street, Suite 401, Toronto, Ontario M6G 4A2; Tel: 416/960-2284; Fax: 416/960-9392 -- publisher of the bulletin titled: "Intervenor". Potential contact(s): **Paul Muldoon**, lawyer for the association

**Canadian Environmental Network** -- an umbrella organization representing more than 1,300 environmental groups across Canada. Potential contact: **Mr. Dana Silk**, National Director

**Canadian Natural Gas Association (or Vehicle Alliance).** Potential contact: **Michael McNeil**, President and CEO

**Canadian Renewable Fuels Association** -- which has been active in the support of ethanol. Potential contact(s):

- > **Jim Johnson**, President (1989-96); or
- > **Terry Daynard**, Executive Vice-President (1989)
- > **Terry Boland**, Director of communications (1997)

**Canadian Solar Industries Association.**, exhibitor at Renewable Energy Conference in Ottawa in April 1997. Potential contact(s):

- > **Bob Swartman**, Past President, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Solar Thermal"
- > **Chuck Price**, Chair, Photovoltaic Division, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Photovoltaics"

**Earth Action**, international environmental group. Potential contact(s): **Johannah Bernstein**, Canadian lawyer for the group

**Earthroots**, an environmental group. Potential contact(s): **Dan McDermott**

**IOGEN Corporation**. Potential contact: **Pat Foody Sr.**, Chairman, speaker at the April 1997 Renewable Energy Conference in Ottawa on: "Making Cents of Climate Change: Are There any Sensible Substitutes for Fossil Fuels?"

**Insurance Bureau of Canada**, Suite 1302, 181 University Avenue, Toronto, Ontario, M5H 3M7; Tel: 416/362-2031; Fax: 416/361-5952 -- has set up a special group to study the impact of climate change. Potential contacts:

- > **George Anderson**, President(?)
- > **Paul Kovacs**, Vice-President;
- > **Jim Harries**, Manager, Policy Development and Manager, Public Affairs -- home address: 1327 Birchcliff Drive, Oakville, Ontario, L6M 2A5;

**National Renewable Energy Laboratory**. Potential contact: **Charles Gay**, Director (former President, Siemens Solar Industries)

**Regulatory Consulting Group Inc.**, submitted a report to EMR in May 1993. Subject: Operational Plan for a National Inspection Program in Support of the Energy Efficiency Act

**Solar Energy Society of Canada Inc. (SESCI)** -- recently issued (Dec/95) the first edition of the Canadian Renewable Energy Guide which includes, among other things, detailed information on commercial and industrial, as well as residential, applications of renewable energy. Potential contact(s):

- > **Raye E. Thomas**, President; or
- > **Peter L. Allen**, Vice-President; or
- > **Douglas P. Lorrinan**, Director

**Superior Propane Inc.** Potential contact: **Robert Yarnell**, Director, Corporate Affairs

**Tacke Windpower**, exhibitor at Renewable Energy Conference in Ottawa in April 1997. Potential contact:

**The Natural Step (TNS) Canada Inc.** -- an international movement founded by Dr. Karl-Henrik Robert, that only became a licensed member of the international organization at the end of February 1997. Potential contacts:

- > **Ray Anderson**, Chairman and CEO
- > **Ms. Kelly Baxter**, a Montreal-based executive member, formerly the Director of Communications for the National Round Table on the Environment and the Economy
- > **Brian Natrass**, a Vancouver-based executive member

> **Foreign Organizations:**

**The Global Climate Coalition**, a Washington, D.C. based industry group which mainly represents oil and coal interests, automakers, electric utilities and the National Association of Manufacturers. Potential contact:

- > **William O'Keefe**, Chairman and American Petroleum Institute Executive Vice-President
- > **Gail McDonald**, President (July/97)
- > **John Shlaes**, Executive Director
- > **Connie Holmes**

**Environmental Defense Fund**, Washington, D.C. Potential contact(s): **Kevin Mills**, Director of Pollution Prevention Alliance

**European Wind Energy Association**. Potential contact: **Christophe Bourillon**, Chief Executive, formerly Manager, Public Affairs, World Coal Institute

**Inter-American Institute for Global Change Research (IAI)**, Washington, D.C. Potential contact(s): **Dr. Paul Filmer**, IAI Program Director, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA, 22230, USA; Tel: (703) 306-0892; Fax: (703) 306-0091

**International Institute for Energy Conservation**, Washington, D.C. Potential contact(s): **Deborah Blewiss**

#### **U.S. Environmental Protection Agency**

**The Worldwatch Institute**, 1776 Massachusetts Ave., NW, Washington, DC 20036-1904 USA; Tel: 202/452-1999; Fax: 202/296-7365; Web: <http://www.worldwatch.org> Potential contact(s):

- > **Lester Brown**, President/Director, or
- > **Chris Flavin**, Vice-President for Research
- > **Aaron Sachs**, or
- > **John Young**, or
- > **David Roodman**

## **MEDIA/JOURNALISTS:**

### **Alberta Report, 17327 - 106A Avenue, Edmonton:**

- Chris Serres (environmental media)

### **Calgary Herald, 215-16th Street S.E., P.O. Box 2400, Station "M", Calgary:**

- Vicki Barnett (environmental media)
- Cathie Bartlett
- Alan Boras (on wind power)
- Gordon Jaremko
- Mark Lowey
- Barry Nelson (climate change / greenhouse gas)
- David Yager

### **CBC National TV News,:**

- Eve Savory, 700 Hamilton Street, Vancouver (environmental media)

### **CTV National News, Suite 1800 - 250 Yonge St., Toronto:**

- Jack McGaw, commentator on autos and CC
- Colin Gray (environmental media)

### **Eco/Log Week**

- Colin Isaacs

### **Environmental Reporter:**

- Robert Matas

### **Financial Times of London:**

- Leyla Boulton (climate change / environmental controls)
- Guy de Jonquieres

### **Intervenor (publication of the Canadian Environmental Law Association (CELA)):**

- Kathy Cooper, CELA Researcher (Climate Change)

### **Kitchener-Waterloo Record:**

- Mike Strathdee (energy efficiency)
- Alisa Priddle (fuel cell technology)

### **La Presse, 7, rue Saint-Sacques, Montreal:**

- Luc Dupont
- André Noël (environmental media)
- P. Vincent (environmental media)

**Le Devoir:**

- Lia Levesque (gaz à effet de serre)

**Le Journal de Montreal, 4545 Frontenac, Montreal:**

- Yves Rochon (environmental media)

**Le Soleil, C.P. 1547 Terminus, Quebec:**

- Michel Corbeil (environmental media)
- Yves Leer

**Maclean's Magazine:**

- Chris Wood (climate change)

**Montreal Gazette:**

- John Willis (climate change)
- Tooker Gomberg and Angela Bischoff (climate change, editorial section)

**New York Times:**

- William Broad
- William K. Stevens

**Oil & Gas Journal (U.S.-based)**

- Robert Beck (economics editor; alternative transportation fuels)

**Oilweek (Canada's Oil & Gas Authority) 2450, 101-6th Ave., S.W., Calgary, Alberta, T2P 3P4:**

- Will Harvie

**Southam News, :**

- Mark Abley
- Eric Beauchesne
- Andrew Duffy (climate change/greenhouse gas emissions )
- Brad Evenson (climate change/health)
- Jim Farrell
- Giles Gherson, Suite 200 - 151 Sparks Street, Ottawa (carbon emissions / climate change) (environmental media)
- Ian Haysom (climate change / weather)
- George Jonas, Toronto (climate change, feature article/writer)
- Eric Siblin (greenhouse gases / climate change)

**Toronto Sun, 333 King Street E., Toronto:**

- Z. Ruryk (environmental media)

**The Canadian Press, 36 King Street E., Toronto:**

- Dennis Bueckert (climate change)

- Wendy Cox (climate change and weather)
- Stephen Ewart (oil & gas)
- Beth Gorham (environmental media)

**The Edmonton Journal, 10006 - 101 Street, Edmonton:**

- Bryant Avery (CO<sub>2</sub> emissions reduction)
- Cathie Bartlett (EnviroHome, R-2000)
- B. Boehm (environmental media)
- Lonre Gunter (alternative fuels)
- Dennis Hrychuk (Journal Staff Writer, climate change) (environmental media)
- John Lippert (electric car)
- Scott McKeon (environmental media)
- Andy Ogle
- Susan Ruttan (chief editorial writer, GHGs)
- Chris Tenove
- Duncan Thorne (energy efficiency)

**The Financial Post, 333 King Street E., Toronto:**

- John Geddes (environmental media)
- John Greenwood (Auto File, alternative transportation fuels)
- Syndey Sharpe (Calgary Bureau Chief, oil patch reporter)
- Terry Weber (Energy and Utilities Reporter)

**The Gazette, 250 St-Antoine Street W., Montreal:**

- Aaron Draper (environmental media)
- Jonah Keri

**The Globe and Mail, 444 Front Street W., Toronto:**

- Andrew Coyne
- Robert Matas
- Ann McIlroy (environmental media)
- James Rusk (Queen's Park Bureau, climate change)
- Bill Thorsell, Editor
- Sean Silcoff (environmental media)
- Stephen Strauss (science reporter)
- Paul Taylor (environmental media)

**The Halifax Daily News:**

- Stephen Bornais;

**The Kingston Whig-Standard:**

- Charles Clover

**The Intervenor** (the Newsletter of the Canadian Environmental Law Association):

**The London Free Press:**

- Gwynne Dyer (a London-based foreign affairs analyst)
- David Dauphinee (climate change)

**The Ottawa Citizen**, 1101 Baxter Road, Ottawa:

- Carrie Buchanan
- Charles Enman (Clean Air Alliance article)
- Nichole McGill (re: Auto\$mart)
- Paul McKay (article on Jim Bruce, CC)
- Tom Spears (climate) (environmental media)

**The Province - Vancouver:**

- Charlie Anderson;

**The Spectator - Hamilton**, 44 Frid Street, Hamilton:

- Michael B. Davie
- Bill Dietrich (climate change research)
- Mark McNeil (energy-efficient homes) (environmental media)
- D. Robbins (environmental media)

**The Times-Colonist**, 2621 Douglas Street, Victoria:

- Judith Lavoie (environmental media)

**The Toronto Star:**

- David Israel (environmental issues)
- Brian McAndrew (environmental media)
- Vic Parsons
- Rosemary Speirs (national affairs columnist)
- Tom Van Alphen

**The Vancouver Sun**, 2250 Granville Street, Vancouver:

- Glenn Bohn (on electric cars)
- Stephen Hume (global warming)
- Larry Pynn (Sun Environmental Reporter) (environmental media)
- George Weyerhaeuser

**The Windsor Star**, 167 Ferry Street, Windsor:

- C. Pearson (environmental media)
- Alisa Priddle (automotive writer)

**The Winnipeg Free Press**, 1355 Mountain Avenue, Winnipeg:

- Steven Wild (environmental media)

**Victoria Times:**

- Malcolm Curtis (GHG emissions)



CONTACTS IN B.C.

**British Columbia Greenhouse Gas Forum**

**Report to the  
Minister of Environment, Lands and Parks  
and the  
Minister of Employment and Investment**

**on the**

**Elements of the Kyoto International Climate Change Protocol**

**September 3, 1997**

**Report to the Minister of Environment, Lands and Parks  
and the Minister of Employment and Investment on the  
Elements of the Kyoto International Climate Change Protocol**

The purpose of this document is to inform the British Columbia Ministers of Environment, Lands and Parks and Employment and Investment of the views of the British Columbia Greenhouse Gas Forum in preparation for federal-provincial discussions on current international negotiations towards a climate change treaty. This report was adopted by the Forum on September 3, 1997. As new information is continually becoming available and international positions are continually evolving, this report should be regarded as a snapshot in time given present information and positions.

### **Background**

The climate change issue poses an extremely difficult challenge, one that requires balancing significant environmental, social and economic risks in a global context. The international policy context was established through the 1992 Framework Convention on Climate Change in which over 150 countries have agreed that there is the threat of irreversible environmental damage from climate change, and have agreed to work *"to achieve ... stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system."*<sup>1</sup>

### **Environmental risks**

- **Potentially serious changes identified**

According to the Intergovernmental Panel on Climate Change (IPCC), the global average temperature is expected to rise by 1-3.5°C by 2100, with an associated increase in sea level of 15-95 cm. Nevertheless, significant uncertainties remain about the nature, extent, timing, reversibility, and distribution of the potential impacts of climate change.

Potentially serious changes that have been identified include extreme weather events such as floods and droughts, with resultant consequences for fires, pest outbreaks, and ecosystem composition, structure, functioning and productivity.

- **Immediate 60% reductions to hold current levels**

There is not yet agreement on a target atmospheric concentration of greenhouse gases, or on the level and timing of reductions in global emission rates which might be required to achieve that target. The IPCC has estimated that stabilizing atmospheric concentrations of key gases at current levels would require immediate reductions in human-caused emissions of over 60 percent.

---

<sup>1</sup> **United Nations Framework Convention on Climate Change, Article 2: Objective. 1992. Page 5**

- **The Kyoto agreement**

The current international negotiations under the Framework Convention on Climate Change are focused on that first step, and are expected to lead to agreement on a legally-binding protocol that would set limits on greenhouse gas emissions from industrialized countries in the post-2000 period. The treaty is expected to be signed in December 1997 at Kyoto, Japan.

### The Forum's Views

- **A range of views**

Within the Forum, and in the wider community, there is a wide variation in views on:

- the appropriate target and timetable for reductions;
- how difficult it would be for Canada and BC to make these adjustments; and
- whether or not these adjustments could also provide economic, social and environmental benefits.

- **Protocol elements**

The Forum's views on the key elements of the Kyoto Protocol are set out in the sections that follow, on:

1. Emission targets and timetables - How much will emissions have to be reduced and by when?
2. Differentiation - Will all industrialized countries face the same commitments?
3. Emission trading and joint implementation - Will countries be able to look outside their borders for cost-effective emission reductions?
4. Emissions budgets, banking and borrowing - Will countries have flexibility in determining when reductions will be made?
5. Legally binding and compliance - Will the treaty be legally binding and how will its provisions be enforced?
6. Coverage - Which greenhouse gases and sources will be covered? Will actions to store gases count towards commitments?
7. Common policies and measures - Will the treaty require all countries to implement certain common measures?
8. Developing country commitments - When and how will developing countries take on emission reduction commitments?

In the Forum's view, the first three elements have the most importance to Canada.

Regardless of the outcome of the current negotiations, in the Forum's view Canadian decision-makers need to ensure that there are mechanisms in place, both domestically and internationally, to make decisions fairly and to proactively manage the environmental and economic risks of climate change. The last section of the report (9. Decision-Making Within Canada on Climate Change) looks beyond Kyoto to consider how Canada will make decisions about ratification and implementation.

about how a national target would be allocated within Canada, and on assumptions about the choice of policy measures.

Impacts of emission reduction targets on BC are unclear. BC's emissions are projected to increase by 37 percent between 1990 and 2010 under a business as usual scenario, the highest growth rate in Canada. This high rate of growth is due primarily to relatively rapid population growth. Almost half of BC emissions are from the transportation sector, where the multitude of sources, industries and jurisdictions complicates emissions reduction.

### **Views of the Forum**

The Forum agreed that the industrialized country target must:

- make progress toward the Framework Convention goal,
- demonstrate industrialized-country leadership and contribute to the future inclusion of less developed countries, and
- be achievable in Canada.

The Forum recognized that:

- aggregate, regional and sectoral impacts will depend on the choice of policy measures in Canada's domestic implementation plan, and
- a process needs to be established to ensure that domestic implementation minimizes economic, social and environmental costs, and allocates those costs fairly. The Forum has initiated work on domestic implementation.

Within the Forum, there was a wide range of views on targets and timetables.

A number of groups advocate reductions from 1990 levels of 20% by 2005 and 50-65% by 2010, based on the following views:

- significant reductions are required early to limit both the rate and extent of climate change, to increase the flexibility of future generations in responding to climate change, to maintain a capacity for deliberate and measured response and to avoid emergency response in future, and to avoid imposing much more rapid and far deeper reductions on future generations
- a significant target is required to trigger the implementation of some measures which may take decades to achieve emission reduction results (e.g. land use, technology development)
- industrialized countries have a moral obligation to act first
- aggregate economic and social impacts are positive or modestly negative, even without factoring in avoided climate change damage costs
- sectoral and regional differences can be managed through transition strategies
- relative economic impacts on Canada vs. other industrialized countries are overstated
- even if worst case scenarios for economic impacts of climate change mitigation are true, these costs are a low price to pay to insure against the risks inherent in climate change.

## 2. Differentiation

### Description

Differentiation refers to setting emission targets for industrialized countries on some basis other than a uniform percent reduction from historical emissions. The stated purpose of differentiated targets is to recognize the unique circumstances of different countries and to more equitably share the burden of reductions among industrialized countries.<sup>3</sup>

### Positions of key countries/blocs

Several countries have proposed differentiated targets:

- Australia has proposed negotiating targets around a formula intended to equalize per capita GDP loss among industrialized countries.
- Japan, France and Switzerland have proposed targets based on per capita emissions.
- Norway has proposed a formula based on projected emissions.
- Brazil, the only developing country to indicate a willingness to accept emission targets, has proposed a formula based on historical emissions.

The United States and the European Union both strongly oppose differentiation on the basis that it is too complex, divisive and can not be successfully negotiated for Kyoto. At the same time, the EU is proposing to implement a differentiation scheme within the EU, referred to as the bubble concept.

Canada is open to differentiated targets reflecting national circumstances if the differentiated targets are beneficial to Canada and if a mechanism can be worked out that will not impede agreement in Kyoto.

### Discussion

Some economic analyses indicate that Canada would be impacted more negatively than most other industrialized countries by a target based on uniform percent reductions from 1990 levels, which suggests that a target based on some other formula may reduce negative economic impacts on Canada. On the other hand, some of the proposed bases for differentiation, such as per capita emissions and current level of per capita GDP, could result in Canada facing more stringent obligations than most other countries.

The Framework Convention recognizes the differentiated responsibilities and specific circumstances of countries.

Some of the Canadian circumstances which could be addressed through differentiation, depending on the formula, include:

---

<sup>3</sup> This section refers only to differentiation at the international level. Differentiation may also arise in the context of domestic implementation; see Section 9.

### 3. International Emission Trading and Joint Implementation

#### Description

International emission trading would allow a country to purchase emission allocations from other countries to meet its emission target, or sell surplus allocations to other countries with targets (e.g. trades would be between industrialized countries). Joint Implementation (JI) would allow a country to gain credit towards its target through an emissions reduction project in a country which is not subject to a target (i.e. between an industrialized country and a developing country). An international joint implementation pilot is currently underway; during the pilot phase countries are not able to gain credits.

#### Positions of key countries/blocs

United States: supports both emission trading and JI as key to flexibility and lowering costs

European Union: will not support trading unless significant targets are agreed to: has opposed or sought to limit credit for JI

Canada: supports both trading and JI

Developing countries: have significant concerns about the fairness of JI.

#### Discussion

The principal argument in favour of trading and JI is cost-effectiveness:

- Trading is expected to lower the global cost of meeting emission targets by allowing reductions to take place where they are least-cost.
- Emission trading will establish an international market price for a tonne of carbon. Countries with marginal costs of reduction greater than the market price benefit because they can purchase reductions for less than it would cost domestically; countries with marginal costs less than the market price benefit because they can sell reductions for more than it costs to achieve the reductions.

Countries with the most to gain from emission trading have very high or very low marginal costs - most analyses place Canadian marginal costs in the mid-range. As a result emission trading may not significantly lower the costs of meeting emission targets in Canada.

Concerns about emission trading relate to:

- practical implementation - there are concerns about fairness and design issues, particularly if domestic trading systems are also established by participating countries.
- effectiveness in reducing emissions - there are concerns that trading would allow some countries to delay or avoid domestic action by purchasing surplus allocations from the former Soviet Union, without any new reductions taking place.

Concerns about joint implementation include:

- measurement, verification and monitoring in developing countries would be required.
- reductions may not be real and incremental; they may have happened anyway, devaluing the effectiveness of commitments.

## 4. Emissions Budgets, Banking and Borrowing

### Description

Emission budgets, banking and borrowing are proposed protocol elements which would provide countries with some flexibility in the timing of emission reductions. Emission budgets would define a total target for a multi-year budget period, as an alternative to a single year (e.g. 2010) target. Banking provisions would allow countries to carry forward excess reductions into future budget periods. Borrowing would allow countries to use future allocations, at some cost, in a current period.

### Positions of key countries/blocs

United States: supports budget periods of 3-10 years, with both borrowing and banking allowed  
European Union: if budgets are included, must start in 2000; banking supported; borrowing opposed

New Zealand, others: borrowing could be addressed as a compliance issue

Canada: supports budgets and banking; has proposed multi-year baselines

### Discussion

The principal argument in favour of budgets and banking is flexibility and cost-effectiveness. A multi-year budget reduces the impact of short-term fluctuations in emissions related to economic cycles. Banking allows countries to benefit from early emissions reductions, particularly if banked emissions can be traded.

### Views of the Forum

The Forum generally supported the use of multi-year emission budgets, provided the budget periods are relatively short (no more than 3-5 years). There was also general support for banking of emission reductions.

The Forum generally did not support borrowing from future budget periods; there was agreement that countries failing to meet emission targets should be required to make up the shortfall, with some penalty, in future target periods, and that there should be a limit to the number of times this could be done before a more serious compliance mechanism would be imposed.

## Views of the Forum

Legally binding targets and timetables are generally viewed by the Forum as important to ensure the progress of the Framework Convention. The Forum generally supports negotiations towards a legally-binding protocol with a graduated and effective enforcement mechanism, which should include:

- Procedural fairness (i.e. before a compliance mechanism is applied, there would be a process to hear and understand circumstances);
- Consideration of the nature and extent of non-compliance and potential application of incentives and penalties suitable to the circumstances;
- "Shortfall recovery" and penalties and limits (i.e. if a country falls short of its commitment, it would have to make up the shortfall, as well as deal with a penalty, and there would be a limit to the number of times this could be done before a stricter compliance mechanism would be imposed); and
- Diplomatic and trade sanctions only where countries have consistently failed to comply and within the scope of the treaty and treaty procedures.

The relationship between the Kyoto protocol and other international agreements, particularly trade agreements such as the General Agreement on Tariffs and Trade (GATT), the North America Free Trade Agreement (NAFTA), and the proposed Multilateral Agreement on Investment (MAI) should be clearly defined and a mechanism established to resolve conflicts with other agreements.

Concerns about a legally binding target included the possibility that it would remove the right of sovereignty for Canada to chart its future in certain significant ways, and that this will be problematic if Canada agrees to a negotiated outcome which is against Canada's economic interests.

There was little discussion by the Forum of the Pledge and Review alternative due to lack of a detailed proposal and due to broad international support for a legally binding treaty.

## 7. Common Policies and Measures

### Description

Common Policies and Measures are policy measures which all countries with commitments would be required to implement, such as common taxes on aviation fuel and marine bunker fuel. Also under consideration are co-ordinated measures, to which countries would be required to give high priority.

### Positions of key countries/blocs

European Union: very strong proponent of standardized policies and measures; has proposed specific mandatory actions to be taken by all countries (e.g. aviation fuel tax), and co-ordinated measures.

United States: strong opponent of any mandatory policies and measures.

Canada: has proposed some co-ordinated measures (e.g. information sharing, technology transfer).

### Discussion

The principal arguments in favour of co-ordinated measures are that:

- measures, such as efficiency standards for products traded internationally, will be ineffective or contribute to trade barriers if not introduced in a co-ordinated fashion.
- some measures, such as carbon charges, will have competitiveness impacts if not co-ordinated internationally.

The principal argument against co-ordinated measures is that they reduce flexibility and the ability of countries to choose their own least-cost options.

In general, the more a country is vulnerable to the domestic policies of other countries, the more likely it is to benefit from some co-ordination of measures. The high degree of integration of the North American market suggests that Canada would benefit from a co-ordinated approach (e.g. for new motor vehicle fuel efficiency), although such co-ordinated measures may be difficult to negotiate.

### Views of the Forum

General support for a co-ordinated approach to some policies and measures (e.g. fuel economy standards for vehicles, appliance and equipment efficiency standards, reviews of tax subsidies and benefits).

## Views of the Forum

The Forum agreed that the Kyoto Protocol should include:

- a Kyoto Mandate - which would establish a process for developing countries to take on emission reduction commitments, beginning at some future time.
- a graduated approach, which would group developing countries according to some objective assessment of their ability to take on commitments, with different levels of commitment for different groups. Instead of the simple split between industrialized and developing countries, this might lead to 3 or more categories.
- a graduation process, triggered by objective criteria, for countries to move from one category to another.

While some Forum members felt that developing country participation is critical, the Forum generally held the view that:

- demonstration of industrialized nations' serious intent to reduce emissions is the first step in getting developing nations to make commitments; and
- the present economic reality of developing countries makes it unrealistic and inequitable to expect immediate action.

## BRITISH COLUMBIA GREENHOUSE GAS FORUM PARTICIPANTS

	PARTICIPANT	ALTERNATE
x	<p>Don Fast Assistant Deputy Minister Environment and Lands Headquarters Division Ministry of Environment, Lands &amp; Parks</p>	<p>Doug Dryden Director Air Resources Branch Ministry of Environment, Lands &amp; Parks</p>
	<p>Cheryl Brooks Assistant Deputy Minister Economic Development Division Ministry of Employment &amp; Investment</p>	<p>Warren Bell Director Environment and Land Use Branch Ministry of Employment &amp; Investment</p>
	<p>Dr. John Millar Provincial Health Officer Ministry of Health &amp; Ministry Responsible for Seniors</p>	<p>Dr. Ray Copes Medical Specialist, Environmental Health, Risk Assessment &amp; Toxicology Ministry of Health &amp; Ministry Responsible for Seniors</p>
x	<p>Chris Rolfe Barrister &amp; Solicitor West Coast Environmental Law Association</p>	
	<p>Dermot Foley Association for Advancement of Sustainable Energy Policy</p>	<p>Bo Martin Association for Advancement of Sustainable Energy Policy</p>
x	<p>Morris Menell Administrator, Program Planning &amp; Development, Air Quality Department Greater Vancouver Regional District</p>	<p>Jennie Moore Employee Transportation Coordinator Air Quality Department Greater Vancouver Regional District</p>
x	<p>Ken Vance Policy Analyst Union of BC Municipalities</p>	
x	<p>Wayne Soper Vice President Environment &amp; Government Relations Westcoast Energy</p>	<p>Richard Williams Program Leader Environment, Health, Safety &amp; Sustainable Development Westcoast Energy</p>
	<p>David Stuart Team Leader Environment, Health &amp; Safety Canadian Association of Petroleum Producers</p>	<p>Rob McManus Manager of Environment &amp; Safety Canadian Association of Petroleum Producers</p>
x	<p>Michael Doherty Barrister &amp; Solicitor BC Public Interest Advocacy Centre</p>	
	<p>Dermot Lane Manager Environmental Affairs Fording Coal; Mining Association of BC</p>	

CANADIAN  
GLOBAL  
CHANGE  
PROGRAM



PROGRAMME  
CANADIEN DES  
CHANGEMENTS  
À L'ÉCHELLE  
DU GLOBE

A Program of  
The Royal Society  
of Canada

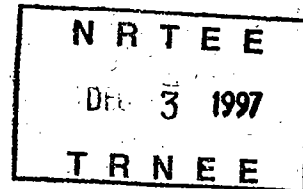
Un programme de  
la Société royale  
du Canada

225 METCALFE, #308  
OTTAWA, ONTARIO  
K 2 P 1 P 9

TEL: (613) 991-5639  
FAX: (613) 991-6996

E-Mail: cgcp@rsc.ca

December 3, 1997



MEMORANDUM

TO: Nancy Averill  
NRTEE

FROM: Jeff Watson  
CGCP

RE: Contract # Z0050-7-1770 - Final Report

I am sending you this Final Report which contains all the tombstone information on experts and stakeholders plus the expanded information that we have received so far. There are still a few laggards and we will send you any further information that we receive, as we receive it. Many of these people and organizations have told us that they are so busy on the climate change files that they do not have the time to send in more detailed information.

Also enclosed are other sources of information on expertise that we have collected during the study.

At the last meeting we had with you we were requested to provide a list of reliable media contacts and also more representatives from labour. Dave Bennett from the Canadian Labour Congress (listed as a stakeholder) is the node for the labour network on climate change. I would also draw your attention to the Canadian Centre for Policy Alternatives (also listed as a stakeholder) which has an environment committee that provides input to the Alternative Federal Budget process each year. Climate change is front and centre in their considerations. I believe that this group in particular, will provide you with a balance to the traditional Business Council approach to the fiscal aspects of climate change.

Media contacts that we would recommend are as follows. You will find many others in the document from the Auditor General's office:

Francophone media:

Louis-Gilles Francoeur, Le Devoir 514 985-3413 Phone; 514 985-3360 Fax  
Marc Bourgault, Radio Canada (Radio) 514 597-5739 Phone; 514 594-5730 Fax  
Jacques Rivard, Radio Canada (TV) 514 597-5085 Phone; 514 597-3667 Fax

Anglophone media:

Stephen Strauss, Globe and Mail 416 585-5013 Phone; 416 585-5085 Fax



---

CANADIAN  
GLOBAL  
CHANGE  
PROGRAM

---



---

PROGRAMME  
CANADIEN DES  
CHANGEMENTS  
À L'ÉCHELLE  
DU GLOBE

---

Paul Knox, Globe and Mail 416 585-5202 Phone; 416 585-5085 Fax  
Margaret Munro, Vancouver Sun 604 605-2362 Phone; 604 605-2323 Fax  
Kathleen Engman, Calgary Herald 403 235-7529 Phone; 403 235-7379 Fax  
Eve Savoury CBC National News (TV) 604 662-6867 Phone; 604 662-6896 Fax  
Karl Nerenberg, CBC Radio (The House) 613 751-3501 Phone; 613 751-3516 Fax

We have now spent much more time on this contract than we budgeted and have to bring closure to the file. We are therefore enclosing our invoice for work done and look forward to receiving payment.

We will be glad to be of further service to you at any future time on a fee for service basis to provide advice on expertise in the area of climate change.

If you have any questions please contact me at 991-5642.

A Program of  
The Royal Society  
of Canada

Un programme de  
la Société royale  
du Canada

---

225 METCALFE, #308  
OTTAWA, ONTARIO  
K 2 P 1 P 9

---

TEL: (613) 991-5639  
FAX: (613) 991-6996

---

E-Mail: [cgcp@rsc.ca](mailto:cgcp@rsc.ca)

---

