

P E T E R C R O A L, P.Geol.

Fellow, Royal Canadian Geographic Society

**Environment, Geology, Indigenous and Vulnerable Peoples and Sustainability
Advisor**

Arctic/Antarctic Guide – Zodiac Driver

73 Elliot Ave.

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Co-Creator: <https://www.nationalhealingforests.com>

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SKILLS and EXPERIENCE

Over 35 years experience in international development, climate change, program management, environmental assessment, strategic environmental assessment, Indigenous and Vulnerable Peoples rights and partnerships, natural resources, capacity building, teaching, sustainable development, environmental management, and governance sectors through employment with private sector, federal government and NGOs, including municipal, local and developing country field experience.

Extensive capacity building experience in developing and managing environmental governance and public participation frameworks, training courses and associated implementation tools and processes for the public sector to respect national and international environmental laws, policies, conventions and agreements.

Extensive project development and cross-cultural experience pertaining to capacity development, natural resources and environmental protection and management with the international Official Development Assistance community, international non-government organisations and aboriginal groups.

Diverse combination of skills and experience gained from Canadian and international projects related to geology, mining, environmental management, aboriginal issues, partnership building, capacity development and governance.

Appointed to McGill University's Leadership Council

Fellow, Royal Canadian Geographic Society

Awards

*Received the 2013 CIDA **President Award for Excellence** for work done to develop the Canadian International Institute for Extractive Industries and Development*

*Received the 2012 **Rose Hulman Award** for work done in international impact assessment from the International Association of Impact Assessment*

*Manager of the CIDA Environmental Assessment Team, which received the **2008 Institutional Award** from the International Association of Impact Assessment*

*Chair of the OECD DAC Strategic Environmental Assessment Task Team, which received the **2006 Institutional Award** from the International Association of Impact Assessment*

*Received the **International Association of Public Participation 2005 Core Values Project of the Year** award for the Calabash public participation program for vulnerable peoples in southern Africa while based at the Southern African Institute for Environmental Assessment (SAIEA)*

*Received **Letter of Citation** from Ambassador Susan Sikaneta of the African Union for the Calabash public participation program of SAIEA.*

*Received the "**Environmental Citizenship Award**" from the Government of Canada, 1991.*

*Received a **Silver Medal** during the 1996 Federal Awards Program as part of Technology in Government week for developing and managing the Canadian Environmental Assessment Act Training Program for CIDA officers.*

*Received the President of CIDA's **1996 Award for Excellence**.*

*Received the **1999 International Association of Impact Assessment (IAIA) Award for Outstanding Service** for work in environmental assessment capacity development and traditional knowledge.*

*Presented keynote address at IAIA 99, South Africa, on the **Wealth of Indigenous Peoples***

PROFESSIONAL EXPERIENCE

Consultant

2013-

- Fogo Island Inn, Newfoundland – Geologist In Residence, <https://www.geologyattheedge.org/>
- World Wildlife Fund – guidance and review of regional SEA for Arctic hydrocarbon development
- City of Ottawa – Climate change policy and accountability
- Federation of Canadian Municipalities – Environmental Planning in response to refugee crisis in Syria
- Ottawa River Watershed Health – Develop framework for watershed planning
- Canadian Environmental Assessment Agency - Environmental Training (SEA)
- Wilderness Conservation Society Canada – Ring of Fire planning (mining)
- Nunavut Government – Facilitated 3 day meeting and wrote report to answer the question: “Is Nunavut ready for oil and Gas Development?”
- Public Policy Forum – Indigenous Peoples and Mining
- Norwegian Government – Oil For Development Program, Capacity Building
- Cheetah Conservation Foundation – Partnership development
- University of Waterloo – Ring of Fire Mining Project and Social Innovation with First Nations
- Arctic and Antarctic guide/lecturer/zodiac driver for expedition ship voyages

Manager - Environmental Integration Unit

- Provide corporate, strategic, procedural and technical advice and tools to CIDA's operational branches and its partners to facilitate and support compliance with the Canadian Environmental Assessment Act (CEAA) and federal Cabinet Directive on Strategic Environmental Assessment. Guided and reviewed over 150 SEA's.
 - Chair of the OECD Task Team on Strategic Environmental Assessment (SEA). Coordinate all activities of the OECD related to SEA and manage a Task Team composed of representatives of over 15 donor governments and international NGOs. Provided advice to SEAs being done in developing countries for the extractive and energy sectors.
 - Develop and implement guidance documents to protect rights and knowledge of Indigenous Peoples and vulnerable groups
 - Participate in the review and selection of a \$25 million bid for the Canadian International Institute for the Extractive Industry and Development (CIIED)
 - Provide corporate, strategic, procedural and technical natural resource management and environmental advice and tools to CIDA's Afghanistan Task Force to advance the delivery of Canada's aid program to Afghanistan.
 - Contribute to the enhancement and delivery of CIDA's capacity to use environmental assessment and environmental management by CIDA's partners, including links between conflict and environment.
 - Collaborate with the donor community, United Nations Environment Programme, the International Association for Impact Assessment, industry and academia on projects related to the implementation of environmental assessment, management and capacity development in the private and public sectors.
 - Develop partnerships with international development organizations for the establishment of capacity building programs in the environment and natural resource sectors
 - Promote the respect and use of Indigenous Peoples knowledge and rights in the planning and implementation of CIDA policies, programmes and projects.
 - Develop and provide research to CIDA on emerging development topics such as links between security/conflict and environmental degradation.
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Southern African Institute for Environmental Assessment

2003 - 2005

Namibia - Programme Manager (reporting to SAIEA and World Bank)

- On secondment from CIDA for 2 years to develop and manage a World Bank supported capacity building programme on the use of environmental governance to advance democratic reform through public participation and civil society engagement in the Southern Africa Development Community (SADC) region. Programme based in www.SAIEA.com **Namibia**.
- Conduct reviews of environmental management frameworks related to mining, energy (including nuclear), agricultural, transportation and tourism projects

- Advise on SADC region public participation and civil society engagement programmes
 - Enhance environmental government capacity building in the SADC region through research, training course delivery, partnership development and outreach.
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Canadian International Development Agency (CIDA)

1993-2003

Senior Environmental Specialist

- Provide corporate, strategic, procedural and technical and policy advice and tools to CIDA and its partners to facilitate and support compliance with the Canadian Environmental Assessment Act (CEAA)
 - Contribute to the enhancement and delivery of CIDA's capacity to use environmental assessment and environmental management by CIDA's partners to reduce poverty.
 - Collaborate with the donor community, United Nations Environment Programme, the International Association for Impact Assessment, industry and academia on projects related to the implementation of environmental assessment, management and capacity development in the private and public sectors.
 - Promote the respect and use of Traditional Ecological Knowledge (TEK) in the planning and implementation of CIDA policies, programmes and projects.
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Indian and Northern Affairs Canada

1981-1993

Geologist, Environmental Specialist

- Plan, organise, implement and manage the national environmental protection and capacity building operations for the Indian Affairs programme of eastern Canada
 - Provide advice, direction and operational tools on environmental assessment and management techniques for native Community Economic Development Organisations and the Indian Affairs programme to respect Canadian environmental laws and policies.
 - Plan, conduct and report on exploration programs for **petroleum, natural gas, peat and groundwater** on Indian Reserves in eastern Canada.
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Gulf Canada Resources

1979-1981

Exploration Geologist

- Initiate, manage and conduct petroleum exploration programs in Saskatchewan.
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EDUCATION

1979 Graduate, Geological Sciences, Carleton University, Ottawa

Over 15 certificate courses in environmental management and related subjects.

PROFESSIONAL AFFILIATIONS

- **Leadership Council Member**, McGill University
- **Fellow**, Royal Canadian Geographic Society
- **Professional Geologist**, Alberta Association of Professional Engineers, Geologists and Geophysicists of Alberta
- **Member**, International Association of Impact Assessment
- **Red Cross Volunteer** – Emergency Management Response
- **Technical Advisor**, United Nations Environment Programme (GEO-5, EIA, Integrated Assessment, capacity development)
- **Staff Member/Educator, Students on Ice 2012/2013 Arctic Expedition (Baffin Island, Greenland)**
- **Staff Member/Educator/Zodiac Driver, Adventure Canada 2015/2016/2017/2018/2019 Expedition, (Northwest Passage, Greenland).**
- **Staff Member/Educator/Zodiac Driver, Albatross Expeditions 2018 (Antarctica).**
- **Chair, OECD Task Team on Strategic Environmental Assessment**
- **Task Force Member** Canadian Standards Association
- **Task Force Member**, Environmental Career Organization of Canada
- **Task Force Member, Agriculture Canada**, (Agent Orange, Vietnam)
- **Environmental Advisory Committee Member**, City of Ottawa
- **Commissioner**, IUCN, Commission on Education and Communication, Commission on Environment, Economic and Social Policy
- **Instructor/Facilitator**, Banff Centre for Management
- **Instructor**, International Association of Impact Assessment
- **Research Associate, Lecturer**, Harvard University, Carleton University, Guelph University, McGill University, St. Paul's University
- **Editorial Board** - African Journal of Environmental Assessment and Management

- **Editorial Board** - Journal of Environmental Assessment Policy and Management, Journal of Impact Assessment and Project Appraisal
 - **Editorial Board** – Journal of Environment and Development
 - **Thesis Reader** – St. Marys University
 - **Volunteer Consultant**, Foundation for International Training
 - **Wilderness Canoe Guide**, Federation of Ontario Naturalists
 - **Habitat for Humanity** – Volunteer Builder (Portugal)
 - **Board Member** – IUCN Canada
 - **Board Member** – Dandelion Dance Company
 - **Board Member** – Biodiversity Conservation International
 - **Board Member** – Village Links Tanzania
 - **Board Member** – COMAP
 - **Board Member** – Eighth Fire Solutions Inc.
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REPRESENTATIVE CONTRIBUTIONS

- Developing a community based reconciliation project with a Cree lawyer. Project can be found at: <https://www.nationalhealingforests.com>
- Developed and managed a 2-year \$US 500,000 award winning program for SAIEA and the World Bank to increase capacity of civil society in the SADC region of southern Africa to participate in environmental governance activities. Program received Letter of Citation from the African Union and an award from the International Association of Public Participation.
- Participated in the call for and review of proposals for the \$25 million Extractive Sector Institute funded by CIDA.
- Developed and managed the *Canadian Environmental Assessment Act (CEAA)* training program for 300 CIDA project and program managers. The training was evaluated by many as being one of the best courses CIDA has offered.
- Managed the development of a software program to assist CIDA officers in navigating through CEAA. This program is the first of its kind in Canada and has attracted attention from many of CIDA's partners. The project was awarded a silver medal during the 1996 Federal Awards Program of the Technology in Government week activities.
- Created innovative promotional and educational material on CEAA and environmental assessment which are being used as models by many of CIDA's partners (desk-top calendar, posters, booklet on environmental assessment).
- Directly involved in successful negotiations leading to settlement of a contentious three party natural gas unitisation agreement involving industry, the federal government and the Sarnia First Nation.

- Instrumental in having Traditional Ecological Knowledge promoted within national and international policy development. Created unique draft guidelines on environmental assessment and traditional knowledge (first of their kind for the donor community).
 - Planned, conducted and presented over 25 exploration reports for oil, gas, groundwater, peat and aggregates to Canadian aboriginal governments and communities. Convinced Environment Canada that Indigenous Peoples should be funding recipients under the Environmental Innovation Program.
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PUBLICATIONS

- *Managing the social impacts of the rapidly expanding extractive industries in Greenland, Elsevier, The Extractive Industries and Society, January 2016, Volume 3, Issue 1, Pages 25-33*, Anne Merrild Hansen, Frank Vanclay, Peter Croal, Anna-Sofie Olsen
- *International Association of Impact Assessment, November 2015, Indigenous and Local Peoples and Traditional Knowledge, Fastips no. 12*
- *International Association of Impact Assessment, April 2012, Respecting Indigenous Peoples and Traditional Knowledge, Special Publication Series No. 9.*
- *Beauty and Adaptation – the Marvels of Namibia’s Dryland Habitat, 2014*, Biodiversity Journal, June 2014
- *Environmental Impact Assessment , From Rio+92 to Rio+20 and Beyond, 2012*, Ambiente and Sociedade, Sao Paulo, v XV, N.3, P 41-54, co-author Dr.Luis Sanchez
- *A Decision Maker’s Tool for Sustainability-Centred Strategic Environmental Assessment , Journal Of Environmental Assessment Policy and Management, Volume 12, No. 1, March 2010*, with Robert Gibson, Charles Alton, Susie Brownlie, Erin Windibank)
- *Local and Indigenous Knowledge – Engagement and Use for Sustainable Development, 2010*, On line handbook for use by CIDA officers at Headquarters and in the field for integration of local indigenous knowledge in development projects
- *Environmental Impact Assessment Training for Developing Countries*, in Environmental Impact Assessment, Carleton University Press for the Impact Assessment Centre, Carleton University, M.H. Sadar, ed.1996
- *Impact of the Canadian Environmental Protection Act on the Recycled Paperboard Industry*, Pulp and Paper Canada, 90:12, 1989
- *Environmental Impact Assessment (EIA): Critical Planning Approach*, in the Challenge of Sustainability, Centre for Sustainable Future, Foundation for International Training, Ranjit Kumar, Barbara Murek, Ted Manning eds. 1993.
- *Using Computer Software to Assist in Training on the Canadian Environmental Assessment Act (CEAA) - Canadian International Development Agency (CIDA)*, in Impact Assessment, International Association of Impact Assessment, volume 15, no. 3, 1997

- ***EIA Software in Developing Countries - A Health Warning***, in Impact Assessment, International Association of Impact Assessment, volume 15, no. 4, 1997
- ***Training Needs for More Effective Use of EIA in Industry***, in press with UNEP, 2007.
- ***First Nations and Development***, Development Express, Canadian International Development Agency, No. 2, 2000-2001.
- ***Canadian First Nations' Experiences with International Development***, ASA Monograph 39, Participating in Development, Approaches to Indigenous Knowledge, Paul Sillitoe, Editor, Routledge Press, United Kingdom, 2002
- ***Canadian First Nations Contributions to International Development***, Journal of Aboriginal Economic Development, v.3, no. 2, Fall 2003, pp. 17-27
- ***Environmental Assessment in Canada***, Peter Croal, Keith Grady, EIA Newsletter, No. 17, University of Manchester, 1998, available at: www.art.man.ac.uk/eis/n117cana.htm.
- ***Follow-up Studies in Cumulative Effects Management, Applications in Developing Countries***, in EA FOLLOW UP WORKSHOP, INTERNATIONAL ASSOCIATION FOR IMPACT ASSESSMENT ANNUAL MEETING, CARTAGENA, COLOMBIA, 2001, Proceedings published on CD ROM by Environment Canada.
- ***Veld Health Check: a Manual for Kalahari Farmers***. 2006, Reed MS, Bartels G, Croal P, Dougill AD, Esler KJ, Kellner K, Milton SJ, Taylor MJ, Waters-Bayer A, Zimmerman I and Bayer W , Indigenous Vegetation Project Publication, UNDP/UNEP. Government Printer, Gaborone, Botswana
- ***Participation in Petroleum Development, 2009, University of Dundee Press, Edward Bristol-Alagbariya author. Provided chapter for this book on participation.***
- ***IAIA Public Participation Best Practice Principles, Special Publication Series No. 4.***, with P. André, D. Connor, B. Enserlink, International Association of Impact Assessment

References available upon request

February, 2022