



**Oceans Governance on
Canada's West Coast**

MASC Workshop

Dunsmuir Lodge
Sidney, British Columbia

June 8th & 9th, 2007



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**In memoriam
Douglas M. Johnstone**

1931-2006

Colleague...Friend...Mentor....Father...

On May 6th, 2006, Douglas M. Johnston, a long serving Governor with The Maritime Awards Society of Canada, passed away after fighting a brave battle with cancer. He was 75.

Professor Johnston, Professor Emeritus at the University of Victoria, was the founding Director of Dalhousie's Marine Environmental Law Programme (MELP), co-founder of Dalhousie's Oceans Studies Programme (DOSP) and a co-founder of the Southeast Asian Programme in Ocean Law, Policy and Management (SEAPOL).



An outspoken advocate of the functionalist approach to legal issues that he associated with his training at Yale Law School, he was persistent and inventive in arguing the case for pragmatic and cooperative approaches to joint oceans management and to the resolution of constitutional or jurisdictional tensions. Generations of graduate students in law have looked to him as a mentor and a model.

Professor Johnston was formerly North American governor of the International Council on Environmental Law and a member of the Board of the Law of the Sea Institute (LSI).

He is author or editor of numerous works in the field of international law and policy, with special emphasis on fisheries, marine pollution, ocean boundary-making and treaty-making including the recent MASC publication "Revisiting the Law of the Sea". He has held the Chair in Asia-Pacific Legal Relations at the University of Victoria and was invited to the National University of Singapore to create and serve as the Founding Director of the Policy Research Programme at that University.

As an outstanding supporter and long-standing Governor of the Maritime Awards Society of Canada, he served as the Society's Program Coordinator from 1996-2006, and as a major financial contributor to its fellowship program, particularly through the MASC Fellowship at Dalhousie University.



Maritime Awards Society of Canada Workshop

Oceans Governance on Canada's West Coast

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The Maritime Awards Society of Canada gratefully acknowledges the generous contribution from the Oceans and Marine Fisheries Division of the British Columbia Ministry of Environment, without which this workshop would not have been pursued, and the additional financial support of the Centre for Global Studies at the University of Victoria, the Oceans Management Research Network, Shell Canada, the Canadian Association of Petroleum Producers, and the Institute for Coastal Research at Malaspina University College, which together have made it possible.

Maritime Awards Society of Canada Workshop

Oceans Governance on Canada's West Coast

Dunsmuir Lodge, Sidney - BC
June 8 & 9, 2007

Workshop Chair: **Art Hanson**

Friday June 8

1:00pm-1:15pm
(Executive Classroom)

Background Presentations

Opening comments (**Roger Kerans**, MASC)
Welcome; workshop purpose, ground rules, outcomes sought

1:15pm-3:15pm
(Executive Classroom)

Taking Stock—Implementation of COS/OAP in BC

Part I—governments

High Level View of Oceans Governance in Canada
(**Sam Baird**, DFO HQ)
Reminder re jurisdiction/ownership matters (**Chris Jones**)
Reminder re cooperative federalism (**David Thomas**)
BC oceans interests (**Bud Graham**, ADM, BC MOE)
First Nations perspectives (**Chief Simon Lucas**)
The PNCIMA example: Turning Point perspective (**Larry Greba**)

3:15pm-3:45pm
(Peninsula Lounge)

Refreshment break

3:45pm-5:45pm
(Executive Classroom)

Part II—Non-governmental interests, activities

ENGO caucus: marine conservation initiatives (**Sabine Jessen**)
OMRN MPA Working Group; MPARG, UVIC (**Phil Dearden**)
NMCA studies and consultations on the BC Coast (**Nick Irving**)
WCVI AMB and Uu-a-thluk (**Andrew Day**)
Fisheries management in ICOM in BC (**Barron Carswell**)
Oil and gas in regional oceans governance (**Roger Creasey**)
Shipping industry, transport (**Rick Bryant**)

6:00pm-7:00pm
(Peninsula Lounge)

Reception & presentation of the **Douglas M. Johnston Award**

7:00pm
(Panorama Lounge)

Workshop Dinner

Dinner Address: Professor **Oran Young** (UCSB and International Human Dimensions Research Program)
Institutional Dimensions of Global Environmental Change: Lessons for Oceans Governance and Integrated Coastal and Ocean Management

Saturday June 9

Interactive panels for exchange of views

8:30am-9:00am
Executive Classroom

Plenary Address: Professor **Gail Osherenko**
Governance models: Place-based management of marine ecosystems

9:00am-10:00am
Panorama Lounge

Panel: **Transboundary Initiatives and Regional Ocean Governance (Chair: Peter Heap)**
US Oceans Commissions, JOCI and all (**Marc Hershman**)
Emerging transboundary institutions in the Salish Sea (**Longo**)
Baja to Bering; Big Eddy (**Sabine Jessen**)

10:00am-10:30am
Peninsula Lounge

Refreshment break

10:30am-12:00pm
Panorama Lounge

Panel: First Nations visions and goals (Chair: Rod Dobell)
West Coast Vancouver Island (**Chief Simon Lucas**)
Haida Gwaii (**Russ Jones**)
Coastal First Nations: Central and North Coast (**Larry Greba**)

12noon-1:00pm

Lunch (Dining Room)

1:00pm-1:30pm
Executive Classroom

Plenary address: **Christopher D. Stone**
Five Steps towards Mending the Oceans.

1:30pm-3:00pm
Panorama Lounge

Panel: Integrated Management/spatial planning/zoning (Chair: Roger Wysocki)
ENGO marine conservation perspectives (**Bill Wareham**)
Marine planning in BC—what all is happening? (**Rob Paynter**)
Joint offshore oil and gas boards and IM (**Boris Tyzuk**)
Competing human uses & integrated management (**Kelly Francis**)

3:00pm-3:30pm

Refreshment Break

3:30pm-4:00pm
Executive Classroom

Emerging models in BC - federal-provincial-First Nations cooperation in implementation of COS (Jamie Alley)

4:00pm-5:30pm

Open Discussion—options to be explored for IM in BC (Chair: Art Hanson)

5:30pm

Chairman's summary and closing comments (**Art Hanson**)

5:45pm

Close

Revised
7/6/2007

Oceans Governance on Canada's West Coast

Program Notes for Participants

Purpose

The purpose of this workshop is to promote an exchange of information on the disparate activities of a wide range of agencies and groups interested in the management of human uses of the oceans and of human activities having an impact on marine ecosystems. It will encourage a frank exploration of the challenges of integrated coastal and oceans governance on the West Coast of Canada and of the possibilities for constructive coordination of those disparate activities and more effective utilization of the growing but still limited resources and fragmented capacity to deal with those challenges.

The outcome sought from this workshop is increased shared understanding of current activities, evolving institutions and emerging challenges in regional oceans governance and implementation of Canada's oceans strategy on the Pacific Coast. The goal is to achieve, through a candid exchange of information and views, a fuller appreciation of the activities in train and planned by the various governments and user groups engaged in planning and governance, and of the ways in which these activities, resources and knowledge systems might be brought together more effectively in the shared search for integrated coastal and oceans management.

Context

Starting from a global perspective, Canada is embedded in a number of global covenants, including the UN Convention on the Law of the Sea, ratified by Canada only in 2003, but also a whole range of other packages of sacred text. (See the 1997 book by Douglas M. Johnston—Consent and Commitment in the World Community—for an informative review of different ways such text may be approached.)

Coming down from that global perspective, Canada is also a participant in trans-boundary frameworks on each of its three coasts—on the Arctic, within circumpolar organizations dominated by indigenous peoples; on the Atlantic, within North Atlantic organizational frameworks as well as more local trans-boundary bodies such as the Gulf of Maine Council, in settings where First Nations interests are often embedded within mainstream institutional arrangements; and on the Pacific coast, where regional initiatives such as the recently announced Pacific Coastal Collaborative are developing along with the more local Georgia Basin-Puget Sound cooperative institutions, and where First Nations and tribes represent a more substantial component of coastal communities and engage ongoing institutions through their own organizational structures.

In the present regional workshop, focusing on the Pacific Coast, one might visualize coastal BC as constituting three regional settings, each with trans-boundary elements and each with distinct forms of involvement by First Nations. On the North and Central Coasts, Fisheries and Oceans Canada (DFO)'s Large Ocean Management Area (LOMA) labeled the Pacific North Coast Integrated Management Area (PNCIMA) pilot project is based in an ecosystem that spans BC's northern marine boundary with Alaska, as do relationships among First nations in the region. This project brings provincial government initiatives in coastal and land use planning together with the search for integrated oceans management led by DFO for the federal government, with the interests of First Nations—who represent a majority of the coastal population in the region—reflected in the participation of the Coastal First Nations and Turning Point Initiative Society as integral elements in the design of governance frameworks. Both the implementation of provincial Land and Coastal Resource Management Plans and the development of the Conservation Investment Incentives Initiative will interact significantly with the evolution of integrated management frameworks in this marine region.

On the West Coast of Vancouver Island, the Big Eddy ecosystem can be visualized as spanning the Southern marine boundary of BC with Washington State, extending into the Oregon National Marine Sanctuary. The Nuu-cha-nulth Nation and Makah tribes span that border as well. (And the WCVI AMB provides an illustration of the potential for place-based management in the trans-boundary region.)

On the South Coast of BC, the Georgia Basin ecosystem can be viewed as the semi-enclosed international sea made up of Georgia Strait and Puget Sound (now increasingly often referred to jointly as the Salish Sea). A very rich array of governmental and non-governmental institutions spans the boundary, in the context of a BC-Washington Agreement on Environmental Cooperation signed fifteen years ago. As the Coast Salish Council builds its institutional structures, it likely will also provide a vehicle for more coordinated engagement by First Nations and tribes in integrated management in this region.

Evidently the pursuit of integrated, ecosystem-based, precautionary and adaptive management of coastal and ocean space and resources will demand different institutional structures and governance arrangements at least on this coast and in these three regions, and perhaps in more local settings. And in each, the challenges of integrating different traditions and knowledge systems with changing mainstream scientific understandings and growing concerns over the threats to oceans and marine ecosystems, and the growing scale of human uses of marine resources and impacts on marine ecosystems, will have to be faced in the context of rising demands for enhanced participatory processes and greater civic engagement. As will, of course, the challenges of devolution of the responsibilities and powers essential to any effective place-based or regional management.

Program

The overall structure of the workshop program annexed below is therefore designed to provide general background in a series of focused briefings Friday afternoon (in which powerpoint presentations can be easily accommodated, indeed encouraged), followed by a more participatory exchange of views in a series of panels Saturday (in which powerpoint or other formal presentations are actively discouraged, although background notes, texts or hard copies of presentations can certainly be distributed). Panelists will be asked to lead and orient a general discussion and interaction on the broad subject of the panel in each case.

In the following schedule, the sorts of questions that might usefully be addressed are outlined briefly.

The first half of Friday afternoon will review the current state of play with respect to governmental interests.

1. Background on the federal government's vision and plans with respect to implementation of Canada's Oceans Strategy in general, and on the West Coast in particular. For background we can refer to the 2007 federal budget, the 2007-2009 Report on Plans and Priorities for DFO, and the 2007-2009 DFO Sustainable Development Strategy, but there seems to be no documentation of any concrete plan for implementation of Canada's Oceans Strategy since termination of the Oceans Action Plan Phase I in March 2007. What is intended, in general, and under the Canada-BC MOU in particular? (1/2 hour)
2. Brief reminder as to elements of constitutional and jurisdictional complexities, and the need for an orientation toward cooperation in federal-provincial-territorial governance and institutional arrangements. (1/2 hour in total for the two presentations).
3. Brief sketches of BC and First Nations priorities in their ('government-to-government-to-government') discussions with the federal government and with each other respecting governance frameworks for formulation and implementation of integrated management processes. Discussion of the PNCIMA example and the work of the Turning Point Initiative (45 minutes in total for three presentations) may illustrate some of the issues involved.

The second half of the afternoon looks to the differing interests and competing uses of ocean space and marine resources.

4. Interests and plans of ENGOS and academics concerned with ecosystem integrity and sustainable human use of marine resources (including identification of sensitive areas and designation of marine conservation areas or marine protected areas).
5. The outlook for the innovative place-based participatory management institution represented by the West Coast Vancouver Island Aquatic Management Board.

6. Perspectives and plans of industry and user groups.

A reception and dinner will offer an opportunity for further informal discussion and for the first presentation of the Douglas M. Johnston Award, offered by the Maritime Awards Society of Canada to honour our late colleague, Douglas Johnston. It will also offer an opportunity to mark World Oceans Day.

The Saturday morning panels will be held in the Panorama Lounge to provide an update on many initiatives in train and many perspectives in play, in a hollow square format to encourage interaction and exchange of views. The sessions will span:

7. Panel on regional oceans governance, cross-scale and transboundary initiatives.
8. Panel on First Nations visions and perspectives on new initiatives on the Coast, possibly including an exchange of views on traditional uses and traditional knowledge, and the ways in which these are being incorporated within the emerging institutions and governance arrangements in the various regions of Canada's West Coast.
9. Against all this background, a panel on the practical realities and challenges of regional oceans planning and integrated management in BC, looking to institutions that can promote finding common cause in the midst of competing or conflicting uses, and looking to ways in which sectoral management institutions might evolve within a context of integrated management
10. A closing panel on future steps and emerging governance structures in BC, particularly with respect to the challenges of cross-scale, cross-jurisdictional or trans-boundary governance and management.

Three invited addresses will offer views from academic research, first, as the banquet address, on the lessons from the massive multi-year international research programs carried on in the International Human Dimensions Program and particularly its research program on Institutional Dimensions of Global Environmental Change; second, to start the Saturday morning discussion, on recent academic comment on marine spatial planning, zoning and place-based management; and third, as a post-lunch address to begin the afternoon discussion, on evolving thinking with respect to the role of civil society in participatory governance processes and the challenge of finding a voice for the living marine resources presently without a voice.

In addition, the closing session looking to the future will begin with a review of the outlook for governance arrangements in BC, and enter into an open discussion of desirable next steps.

Relevant resource materials will be identified, with a selection of documents and relevant links to be accessible through workshop components on the MASC and Centre for Global Studies websites.

Again, the goal of the workshop is to encourage a candid exchange of views and a broader appreciation of the many initiatives in train and the many challenges associated with the development of legitimate and effective mechanisms of participatory governance and adaptive management in the face of continuing profound uncertainty and global change. Discussion will be on the basis of participants speaking in their personal capacity, not as representatives of any organization, and with comments not for attribution. Workshop organizers may attempt to prepare a summary for subsequent distribution to participants, without identification of individual speakers.

Oceans Governance on Canada's West Coast MASC Workshop

Participant List

Jamie Alley	Christopher Jones
Hussein Alidina	Russ Jones
Sam Baird	Roger Kerans
Richard Bryant	Jennifer Lash
Meaghan Calcari	Sherry Lealess
Barron Carswell	Chief Simon Lucas
Roger Creasey	Justin Longo
Andrew Day	Grant Murray
Phil Dearden	Gail Osherenko
Darcy Dobell	Rob Paynter
Rod Dobell	Bill Pennell
Kelly Francis	Christopher D. Stone
C.C. (Bud) Graham	David Thomas
Larry Greba	Karen Topelko
Art Hanson	Boris Tyzuk
Peter Heap	Bill Wareham
Marc Hershman	Kate Willis
Rob Huebert	Roger Wysocki
Nick Irving	Oran Young
Sabine Jessen	

**Dunsmuir Lodge – Sidney, British Columbia
June 8&9, 2007**



Maritime Awards Society of Canada Workshop

Oceans Governance on Canada's West Coast

Biographies

Hussein Alidina

***Senior Manager, BC Marine Planning
WWF-Canada, Pacific Region***

Hussein M. Alidina has a background in marine conservation planning, community based fisheries management and an interest in marine resource management and policy. He has worked on projects with WWF-Canada to identify priority marine conservation areas on Canada's East Coast and in across the marine waters of Cuba. His work with groups in East Africa has been on community based monitoring, fisheries co-management and fisheries policy issues. He holds a graduate degree in Marine Management from Dalhousie University Marine Affairs Program, and was the recipient of a MASC scholarship in 2003 for his academic program. Hussein recently re-joined WWF-Canada, this time at their Pacific Region office as Manager for BC Marine Planning and will be working on projects that seek to attain good marine conservation outcomes through engaging various marine planning initiatives.

Jamie Alley

***Director, Oceans and Marine Fisheries Division, BC Ministry of
Environment***

Jamie Alley is a geographer by training with degrees in natural resource management from Simon Fraser University and the University of Victoria. Jamie began his career with the BC provincial Government in 1977 and has held a variety of positions in natural resource ministries as well as the Intergovernmental Relations Secretariat and the Cabinet Office. He is currently the Director of the Oceans and Marine Fisheries Branch of the BC Ministry of Environment and has responsibility for the provincial government's interests in marine fisheries management, seafood industry development and oceans resource management.

Jamie has also held part-time appointments in the Environmental Studies Program at the University of Victoria and has represented the province at a number of national and inter-national forums including the OECD and the UN. He is currently co-chair of the national Oceans Task Group under the Canadian Council of Fisheries and Aquaculture Ministers and the Canada/British Columbia Oceans Coordinating Committee.

Sam Baird

***National Oceans Advisor
Office of the Director General - Oceans
Fisheries and Oceans Canada***

Sam began his career with the federal government in 1973 and has held a variety of positions in marine related departments. In his initial decade he worked in underwater systems technology in the St-Lawrence Estuary, Hudson/James Bays, and the High Arctic; the following decade was spent primarily in the management of science-based programming, policy research, and environmental crisis management; and the latter decade-plus has been spent primarily in oceans policy research and development.

He was part of the team who prepared the Oceans Act and shepherded it through Parliament in 1995/96.

His primary interests are in the area of 'Oceans Governance' where his track record shows he chaired the Coastal Zone Canada '2000 special-session on oceans governance; was secretary and co-organizer of the Australia-Canada Oceans Research Network-2 project on principled oceans governance; was co-organizer of the three APEC integrated oceans management - oceans governance forums held in Vancouver 2000, Canberra 2002, and Easter Island 2004; and was co-organizer of the ground breaking conference entitled The Governance of High Seas Biodiversity held in Cairns, Australia in 2003.

His current responsibilities primarily include providing advice on national oceans policy and programming directions to the Director General - Oceans, Fisheries and Oceans Canada.

Dr. James A. Boutilier, PhD

President, MASC

James A. Boutilier is the Special Advisor (Policy) at Canada's Maritime Forces Pacific Headquarters in Esquimalt, British Columbia, where he is responsible for advising the Commander of Maritime Forces Pacific on matters of defense, foreign policy and maritime security in the Asia-Pacific region.. Dr. Boutilier served in the Royal Canadian Navy Reserve from 1956 to 1964 as a navigating officer and in the same capacity in the Royal Navy Reserve from 1964 to 1969. Dr. Boutilier taught at the University of the South Pacific in Suva, Fiji, from 1969 to 1971 and at Royal Roads Military College where he spent 24 years as department head and Dean of Arts. He was instrumental in establishing the military and strategic studies degree program at the College and taught courses on naval history, contemporary Asia, the history of the Pacific, and strategic issues. Dr. Boutilier is now the current President of MASC.

Richard Bryant

President Chamber of Shipping

Mr. Bryant served over 30 years in the public service with the Royal Canadian Air Force, the Canadian Hydrographic Service and the Canadian Coast Guard, including CCG Regional Director (Pacific) from 1996 through 2000.

He was appointed President, Chamber of Shipping in January 2002. He is a board member of the Western Marine Community Coalition, Marine Information Services of North America, the Canadian Maritime Law Association and is a member of Canada's Marine Industry Alliance.

Rick Bryant is the Co-Chair of the BC Marine Vessel Air Quality Work Group, a Project leader for the National Marine & Industrial Council's Technology & Innovation Work Group. He has also overseen the development of a Human Resources Strategy for the Marine Industry.

Mr. Bryant holds a degree in Electrical Engineering from the Royal Military College and an MBA from McMaster University.

Meaghan Calcari

Associate, Marine Conservation - Gordon and Betty Moore Foundation

Meaghan Calcari is a program associate in the Foundation's Marine Conservation Initiative.

Before joining the Foundation, Meaghan was an intern and a consultant for Conservation International where she evaluated a community-based conservation project in the Philippines. Meaghan has also taught middle school environmental education in Illinois, Indiana, Missouri, and North Carolina.

Meaghan received a B.S. in Environmental Science and Psychology from the University of Notre Dame, a certificate of International Population and Reproductive Health from the University of Michigan and a Master of Environmental Management from Duke University's Nicholas School of the Environment with a focus on coastal resources. During her undergraduate education, Meaghan studied at Columbia University's Biosphere 2 Center in Tucson, Arizona.

Barron Carswell

Manager of Manger of Ocean Resources, Oceans and Marine Fisheries Branch, BC Ministry of Environment

Worked in both the private and public sectors in a variety of fisheries and aquaculture related research projects ranging from blackcod fisheries

management, to seaweed culture and extracts, invertebrate biochemistry and mathematical modelling.

Participated in a wide variety of Land Use Planning Forums, including the Protected Area Strategy, Vancouver Island Land Use Plan, the Central Coast Land and Resource Management Plan and Baynes Sound Action Plan

As part of that responsibility he has helped develop the marine Geographic Information capabilities for BC Fisheries.

Previously assignment in the Ministry of Agriculture and Lands was to manage the Shellfish Development Initiative and deliver modelling predictions of organic loading from salmon farms.

Currently he is the Manger of Ocean Resources for the Ministry of Environment.

BSc. in Marine Biology, MSc. In Salmon Genetics

Commander Peter Godwin Chance

CD, MNI (Ret'd)

Peter Chance completed a 32-year naval career in the Royal Canadian Navy specializing in navigation and as an aircraft controller. He served on 13 ships and commanded a frigate and destroyer as well as fulfilling a number of shore staff appointments. Commander Chance was also the first Executive Officer to the Dean of Osgoode Hall Law School and wrote *A Sailor's Life, Before It's Too Late*. Peter was also the founding President of MASC.

Roger Creasey

Corporate Manager

Ecosystem Management & Environment, Shell Canada

Roger Creasey, M.Sc., P.Biol. has worked in the field of energy/environment for over 31 years and has dealt with numerous regulatory reviews and environmental issues associated with industrial developments.

Roger is currently the Corporate Manager of Ecosystem Management & Environment with Shell Canada Ltd, based in Calgary, Alberta, Canada. He has been involved in a broad spectrum of environmental issues facing the energy industry, and has also participated in numerous public hearings where environmental issues have been predominant.

Roger has been studying the varied aspects of cumulative environmental effects assessment and landscape management for several years, and has implemented approaches designed to address those issues. He chaired national conferences on cumulative effects assessment/management in 1994 and again

in 2000, and was part of the expert working group that prepared the Cumulative Effects Practitioners Guide for the Canadian Environmental Assessment Agency.

Roger has participated in several land/coastal management initiatives. He is currently managing the Montane Elk Research Program (www.montaneelk.com) and initiated the West-Central Caribou/Wolf research program.

Roger has also conducted training sessions in environmental assessment and cumulative effects with the University of Calgary's Energy and the Environment Program conducted with the Latin American Energy Organization. He also provides sessional instruction for courses in the Faculty of Environmental Design. He is an adjunct professor of environmental science in that faculty. Roger is also a Past-President of the Alberta Society of Professional Biologists, and a member of the International Association for Impact Assessment (IAIA). He is also a director of the Miistakis Institute for Environmental Research.

Andrew Day

Executive Director, West Coast Vancouver Island Aquatic Management Board

Andrew Day was born and raised in Vancouver, B.C. He has a law degree and a Ph.D in resource and environmental management.

Prior to working for the Board, Andrew worked as an environmental management consultant specializing in aquatic issues and multi-party negotiations.

He has worked primarily in the West Coast of Vancouver Island area since 1997 and was intimately involved in the development and implementation of the Board. He has also lived and worked in Europe and Africa, including commercial fishing, archeological diving, wildlife management, community development, and smokejumping.

Philip Dearden

Professor, Department of Geography, University of Victoria

My background is in biogeography and resource management and my interest in marine environments originated over 25 years ago with early publications on the BC provincial marine parks system and whale watching in BC. I was one of the originators of the long-standing Departmental interest in marine mammals that led to the founding of the Whale Research Lab. Since that time I have developed my research interests both in Asia and Canada and have authored 7 books and over 150 research articles. I am a member of IUCN's World Commission on Protected Areas and am a consultant to the Governments of Canada, Thailand, Sri Lanka, Vietnam and Cambodia as well as the Asian Development Bank, World Bank, Global Environment Facility and various UN bodies. I lead the Marine Protected Areas Research Group as well as the MPA Working Group of

the Ocean Management Research Network. I am also Co-Chair of Parks Canada's Marine Science Network.

My main research interests are in MPA management, with particular emphasis on ecosystem-based management, zoning and tourism.

[Darcy Dobell](#)

Marine Planning Facilitator, Tides Canada Foundation

Darcy Dobell is sole proprietor of DJ Dobell Consulting, a firm that provides facilitation, strategic planning, and communications support to non-government organizations and other clients. Darcy currently serves as Marine Planning Facilitator for the BC ENGO Marine Planning Caucus, and as a consultant to the BC Marine Planning Donor Advised Fund.

Darcy lives with her family in Tofino, BC, where she has been actively engaged in work to build regional capacity for social and environmental sustainability. She helped to found the Raincoast Education Society and is Co-Chair of the Clayoquot Biosphere Trust. Darcy is also a science and education writer.

[Rodney Dobell](#)

Senior Research Associate, Centre for Global Studies, University of Victoria

Rod Dobell completed his PhD in economics at MIT and took up a five-year appointment to teach economic theory at Harvard before returning to Canada as Professor of Political Economy at the University of Toronto. He has served as Special Advisor (Long Range Economic Planning) to the Deputy Minister of Finance and as Deputy Secretary to the Treasury Board in the Government of Canada, Director of the General Economics Branch at OECD, Director of Research for two Parliamentary Task Forces, and a President of the Institute for Research on Public Policy, 1984-1991. In 1991 he was named as the first holder of the Francis G. Winspear Chair for Research in Public Policy at the University of Victoria. He is now Professor Emeritus of Public Policy at the University of Victoria.

[Kelly Francis](#)

Senior Policy Advisor, Oceans, Habitat and Enhancement Branch, Fisheries and Oceans Canada, Pacific Region

Kelly Francis graduated from the University of Victoria with a BA in English Literature and History and completed graduate studies in political science and journalism at the Institute of Canadian Studies at Carleton University. She started her career in the political arena working for several Liberal Party Cabinet Ministers and the Liberal Caucus Research Bureau in Ottawa before returning to the West Coast to work for the BC Ministry of Environment in the

communications field. She joined the Department of Fisheries and Oceans in 1983 as Science Communications Manager at the Pacific Biological Station in Nanaimo. In 1998, Kelly went to Ottawa on assignment, working in the Fisheries Management and Policy sectors returning to Pacific Region in 1999 as the Integrated Coastal Zone Management Coordinator for South Coast. Since 2003, she has worked at regional headquarters as a Senior Policy Advisor for Oceans, where among other things, she is the regional lead on Marine Protected Areas.

Kelly lives in sunny Nanoose Bay where, in her spare time, she is an avid paddler (kayak, OC6, OC2) and an enthusiastic but erratic tennis player.

C.C. (Bud) Graham

Assistant Deputy Minister, Oceans and Marine Fisheries Division, BC Ministry of Environment

Bachelors of Science – University of Victoria – 1971
Masters of Natural Resource Management – Simon Fraser University – 1991

In July 2005, Mr. Graham was appointed as the Assistant Deputy Minister (ADM) for the Oceans and Marine Fisheries Division of the BC Ministry Of Environment. Prior to this assignment (2001-2005) he served as ADM of Resource Management and Sustainability Division, Ministry Agriculture, Food and Fisheries and as ADM of Programs and Operations Division, Ministry of Fisheries (1998-2001)

Previously, he spent 27 years with the Federal Department of Fisheries and Oceans in various roles including Director, Fisheries Management (1994-1998) and Chief, International and Intergovernmental Affairs (1986-1993).

He is also a founding member of the Association of Professional Biologists of BC. He has served on the executive of the Association and as a member of the Board of Examiners.

Larry Greba

Principal, Larry Greba & Associates

Larry Greba has extensive experience and training in the field of fisheries. He has worked with 25 First Nations communities throughout British Columbia over the past 23 years primarily in fisheries enhancement, management and aquaculture. Larry has a passion for fishing and the outdoors and worked as a professional fishing guide throughout northern Canada in the 70's and 80's. He is a graduate in Fish and Wildlife Management from the British Columbia Institute of Technology in 1984. Much of his early work was through the Community Economic Development Program with SEP/DFO throughout the Fraser River drainage, North and Central Coast and Haida Gwaii. Over the past 15 years he has developed an advisory business and works directly with First Nations

organizations on capacity building, project development, strategic planning, negotiations and economic development related to fisheries and aquaculture. He has worked closely with the Kitasoo/Xaixais, OKNTC, Tsimshian Treaty Society and the Turning Point Initiative, and has represented the interests of many of these organizations on a myriad of boards and committees and serves as a director for several Kitasoo Band businesses.

Arthur J. Hanson

Distinguished Fellow, International Institute for Sustainable Development

Art Hanson is Distinguished Fellow, and former President of the International Institute for Sustainable Development (IISD). He was Professor and Director of the School for Resource and Environmental Studies at Dalhousie University. Prior to that, during the mid-1970s, he worked with the Ford Foundation in Indonesia. Dr. Hanson addresses environment and economy, biodiversity, oceans, and international development concerns globally, in Asia and in Canada.

He has served on Canada's National Round Table on the Environment and Economy (NRTEE), as Canada's Ministerial Ocean Ambassador with the Dept. of Fisheries and Oceans, and in a number of other national advisory posts. He has initiated several major international development activities in Southeast Asia, and currently is a Member and Lead Expert of the China Council for International Cooperation on Environment and Development (CCICED). He is Chairing a Working Party on Biotechnology, Sustainable Development and Canada's Future Economy for the Canadian Biotechnology Advisory Committee. Dr. Hanson is a member of the Canadian Foundation for Innovation (CFI). He is an Officer of the Order of Canada.

Peter Heap

Senior Research Associate, Centre for Global Studies, University of Victoria

Peter Heap is Senior Research Associate at Centre for Global Studies. He is former Chief Treaty Negotiator and Assistant Deputy Minister, Government of British Columbia; former Foreign Service Officer and Assistant Deputy Minister, Government of Canada; and former Director, Governability Research Program, Institute for Research on Public Policy.

He holds BA in History (UBC), MPhil and PhD in History (Yale).

Marc J. Hershman

Professor, University of Washington

Marc J. Hershman is a professor in the School of Marine Affairs at the University of Washington, and adjunct Professor in the School of Law. He leads faculty and students engaged in teaching and research on integrated coastal zone management, ports and transportation, living marine resource management,

marine protected areas, impacts of climate change, and other ocean issues. Professor Hershman has more than 30 years' experience in the study of ocean and coastal law and policy. In 1972, he founded the Coastal Management Journal and continues to serve as its editor-in-chief. He has served as president of The Coastal Society, is a co-founder of the Marine Affairs and Policy Association, and is an active member of the Ocean Governance Study Group. He is the founder and a Board member of Odyssey Maritime Discovery Center on Seattle's central waterfront.

Rob Huebert, PhD

Associate Professor, Department of Political Science, University of Calgary

As an associate professor in the Department of Political Science at the University of Calgary, Dr. Huebert instructs courses on international relations, strategic studies, Canadian foreign and defence policies, ocean politics and the Arctic. He is also the associate director of the Centre for Military and Strategic Studies. He was the co-editor of *A Nation's Navy: In Quest of Canadian Naval Identity* (1996); *Commercial Satellite Imagery and United Nations Peacekeeping: View from Above* (2004); and *Breaking Ice: Renewable Resources and Ocean Management in the Canadian North* (2005) and has published in a wealth of journals. He is widely regarded as one of Canada's leading specialists in Arctic studies.

Nicholas Irving

Parks Canada

Nicholas Irving works as a planner for Parks Canada, with a specific focus to National Marine Conservation Area establishment initiatives on the Pacific Coast. Nicholas holds a BSc in Environmental Studies and Geography (UVIC) and a MSc in Environmental Planning (UBC).

Thus far, his career has included planning, resource management and field research roles related to conservation and ecosystem based management for the government of Canada, the Province of British Columbia, private sector resource management consultants and the Universities of Calgary, Victoria and British Columbia. In his work for Parks Canada, he is involved in efforts to establish National Marine Conservation Areas on the North and South coast as well as contributing to the advancement of other federal marine protected areas priorities in BC's coastal waters. Beyond work, he is an avid maritimer who enjoys, surfing, fishing, sailing and paddling.

Sabine Jessen

National Manager, Oceans & Great Freshwater Lakes Program - CPAWS

Since her involvement with CPAWS began in 1991, Sabine has served in a number of staff and volunteer capacities, including Executive Director from 1995 to 2000, President of the Board of Directors from 1993 to 1995, and Secretary.

Sabine steered the chapter into three new campaign areas - the Marine Protected Areas Campaign, the Parks Stewardship Program, and the Grasslands Conservation Campaign. Under her guidance, the chapter budget and staff increased fivefold. She also previously coordinated the marine spaces campaign for World Wildlife Fund Canada in British Columbia as part of the Endangered Spaces Campaign.

Sabine holds a Masters Degree in Geography, specializing in coastal zone management and environmental regulation. She has considerable academic and work experience on land-use planning issues, particularly in Canada's North. She has served as an Advisor to the BC Parks Department, the former BC Commission on Resources and Environment, and the Economic Council of Canada. She was recently appointed to the Minister's Advisory Council on Oceans, and was previously a member of Fisheries and Oceans Canada's Science Advisory Council.

Christopher Jones

British Columbia Ministry of Attorney General

Christopher Jones was called to the Bar by the Law Society of British Columbia in March 1996. Chris attended Dalhousie University Law School and was a Clerk at the Federal Court of Canada from 1993 to 1995. Chris was an associate at Arvay Finlay in Victoria from 1997 to 2005. He was the Gale Moot Coach at the University of Victoria for two years, and has taught Oil and Gas Law and Regulatory Law at the Universities of Victoria and British Columbia, respectively. In addition to civil litigation, in private practice Chris represented both private and public sector clients before the National Energy Board and the BC Utilities Commission. Since joining the Ministry of the Attorney General in 2005, Chris has primarily provided advice to the Ministry of Energy, Mines and Petroleum Resources and the Environmental Assessment Office.

Russ Jones

Project Manager, Marine Use Planning, Haida Fisheries Program

Russ has been a consultant since 1989, working primarily for First Nation clients in the area of fisheries management, planning and oceans policy. He has a science and engineering background and holds a Masters in Fisheries from the University of Washington. In 2004 he participated in a three member panel that prepared a report for First Nations on the direction of post-treaty fisheries: "Our Place at the Table: First Nations in the B.C. Fishery". He is presently serving as a commissioner on both the Pacific Salmon Commission and the North Pacific Anadromous Fish Commission.

[Roger Kerans](#)

Governor, Maritime Awards Society of Canada

The Hon. Roger Kerans began the practice of law in 1956. He was a judge for 27 years in Alberta, latterly on the Court of Appeal. Since his retirement in 1997 he has worked throughout Western Canada as a mediator and arbitrator. He also teaches oil & gas law at UVIC Law School.

[Jennifer Lash](#)

Executive Director, Living Oceans Society

Jennifer Lash, is the founder and Executive Director of Living Oceans Society. Her background is in Public Policy and Administration and she has worked on ocean conservation issues in British Columbia for many years. A life long love of the ocean led Jennifer to Australia where she worked on a prawn trawler. The destruction she witnessed during this experience changed her life completely, and inspired her to work for the sustainable health of BC's ocean and the communities that depend on it. She is coordinator of the Coastal Alliance for Aquaculture Reform and a founding member of the Oil Free Coast Alliance. Jennifer lives in Sointula with her children Molly and Dexter and their dog Lucy.

In 2002, the Tides Foundation presented Jennifer with the Jane Bagley Lehman Award for Excellence in Public Advocacy.

[Justin Longo](#)

Policy Advisor

Formerly Executive Director of the Maritime Awards Society and a PhD student at the University of Victoria, Justin Longo is a Victoria-based policy advisor. He recently served as the Canadian Chair of the 2007 Georgia Basin Puget Sound Research Conference.

[Simon Lucas](#)

Chief, Hesquiat First Nation

Chief Simon Lucas is a member of the Hesquiat First Nation located on the West Coast of Vancouver Island. His hereditary name is "Kla-Kisht-Ke-is" and he is the seventh ranking Chief of Hesquiat.

A commercial fisherman by trade - (and a troll fisherman all his life) - Simon has been instrumental in the fight for native involvement in BC's fishing industry. Active in the BC Aboriginal Fisheries Commission since its formation in 1983, Simon served as co-chairman from 1983 to 1992 - when a re-structuring of the Commission resulted in his election as sole Chairman for a two year term. His dedication to the cause of aboriginal fishing rights has led to an even wider involvement, however: he currently serves on the Commercial Fishing Industry

Council, the Board of Oceans and Science Institute, and an Advisory Board on aquaculture. He is closely associated with both the Northwest Indian Fisheries in Washington State and the Columbia River Inter-Tribal Fisheries Commission in Oregon State.

Simon was Co-chairman of the Nuu-Chah-Nulth Tribal Council for six years, serving alongside his friend and mentor George Watts.

In asking the Chancellor of UBC to confer the honorary Doctor of Laws degree on Chief Lucas, then-President Martha Piper noted that “As Coastal Co-Chair of the BC Aboriginal Fisheries Commission, and Executive Board member of the Aboriginal Council of BC, Chief Lucas was declared an ‘elder’ at age 40 for his unique ability to draw people together for the common cause of rebuilding natural resources....He truly has a gift to present complex issues in simple and understandable ways.”

“Working with the UBC Fisheries Centre, the First Nations House of Learning at UBC, and the BC Aboriginal Fisheries Commission, Chief Lucas provides counsel to leading academics in the field of Aboriginal Fisheries.”

Grant Murray

Canada Research Chair in Coastal Resource Management, Malaspina University-College

Grant Murray (PhD) was appointed as Canada Research Chair at Malaspina University-College in 2006. Prior to that he was a post-doctoral fellow with the Coasts Under Stress Program at Memorial University of Newfoundland, St. John's, Newfoundland. He holds a Master of Environmental Management degree from Duke University and a PhD in natural resource sociology from the School of Natural Resources and Environment at the University of Michigan. With graduate training in marine ecology and natural resource sociology, his interdisciplinary research involves the combination of elements from both natural and social sciences, and has focused on historical and current marine resource usage patterns in Mexico, the United States and Canada. His current research interests include: 1) interdisciplinary marine environmental history using local ecological knowledge in combination with archival sources and scientific information; 2) the relationship between local knowledge, fisheries management and socio-ecological outcomes; 3) the cumulative effects of regulatory change on commercial fishing communities; 4) the environmental and social impacts of tourism; and 5) community-based natural resource management of marine protected areas.

Gail Osherenko

Research Scientist, University of California, Santa Barbara

Gail Osherenko (JD University of California, Davis 1975) is a research scientist (in law and policy) at UCSB's Marine Science Institute. Before coming to UCSB in 2003, Ms. Osherenko wrote and taught on issues of regime formation, natural resource management, and indigenous rights in the Arctic from her base at Dartmouth College in New Hampshire. After law school, she was a legislative assistant for a California state senator working primarily on the California Coastal Act. After moving to Washington DC in 1977, she spearheaded Congressional passage of legislation to create the Santa Monica Mountains National Recreation Area as well as working on legislation to create the Channel Islands National Park. Subsequently she practiced law in the Appellate Section of the US Justice Department's land and natural resources division and at the Council of Environmental Quality. She has worked for and served on the boards of various environmental organizations, and is currently on the Board of the Environmental Defense Center based in Santa Barbara. While living in Vermont, she was appointed by Governor Dean as a member of that state's Water Resources Board. She is the co-author and co-editor of several books dealing with environmental issues as well as conflict and regime theory.

Rob Paynter

Manager, Integrated Land Management Bureau's Marine Planning Office

Rob is a transplanted prairie kid whose interest in the ocean can be traced back to his love of wide open spaces. After an interesting career as an infantry officer in the Canadian Forces, Rob turned his attention to geography and environmental studies at the University of Victoria. Rob joined the provincial government in 1996 supporting strategic level land use plans on Vancouver Island and in the Central Coast region of BC. Through these planning processes, Rob developed a keen appreciation for both coastal planning and the involvement of the public, stakeholders, First Nations and varying levels of government in plan development. Following the creation of the Ministry of Sustainable Resource Management in 2001, Rob joined the Coast and Marine Planning Branch where his work focused on the identification of opportunities for aquaculture development and sub-regional coastal planning initiatives. Today, Rob serves as the manager of the Integrated Land Management Bureau's Marine Planning Office, where in addition to the ongoing work of coastal planning, including provincial engagement in the DFO led Pacific North Coast Integrated Management Area process, Rob is heavily involved in the feasibility study of a National Marine Conservation Area for the Southern Strait of Georgia and the creation of a coordinated federal-provincial system of marine protected areas for Canada's Pacific Coast.

Bill Pennell

Professor Emeritus, Malaspina Fisheries and Aquaculture

Bill Pennell was one of the Fisheries and Aquaculture Program's founders (with David Lane and Eunice Lam and has been with MU-C since 1979). He has a BA from Bowdoin College and a PHD from McGill University. Initial specialization was zooplankton and biological oceanography (copepods). Later he developed courses and research in salmonid culture, and now concentrates on marine ecology, invertebrate zoology and invertebrate aquaculture (and teaches courses in these subjects). Most recent activities include starting and developing the [Centre for Shellfish Research](#), work on a review of copepod biology (on-going) and participation in various provincial aquaculture committees (BCARDC, ACRDP, FNSAT, CSR- LINKS). He has also been active in overseas work in several countries including Thailand (RIT) LINKS, and Brazil (BMLP)LINK. His next planned activities include writing a textbook for invertebrate aquaculture and further international work in Brazil and Africa.

Christopher Stone

Professor of Law, University of Southern California

Christopher D. Stone is J. Thomas McCarthy Trustee Professor of Law at the University of Southern California. Professor Stone has written in several areas including the environment, white collar and corporate crime, legal philosophy, U.S. alternate energy policy, climate change, biodiversity, ocean policy, and trade law. He has served on or worked under the auspices of a variety of governmental agencies including the President's Commission on Communications Policy, the Energy Research and Development Administration, the National Institute of Mental Health, the National Science Foundation, the Department of Energy, and the United States Sentencing Commission. In preparation for the Rio Earth Summit (1992 UNCED) Conference, Professor Stone served as Rapporteur for the American Bar Association's Intersectional Committee on International Law and the Environment in shaping the ABA's Resolutions on International Law of the Environment. He is a member of the Commission on Environmental Law of the IUCN (World Conservation Union) and serves on the Editorial Advisory Board of Environmental Ethics, as Editor in Environmental Law, Environmental Conservation (Geneva), and on the Editorial Board of the Journal of Economics and Development. Professor Stone is a Trustee of the Center for International Environmental Law (CIEL/USA) and an Advisor to the Foundation for International Environmental Law and Development (FIELD/London).

A magna cum laude graduate of Harvard, Professor Stone received a J.D. from Yale Law School. He was Fellow in Law and Economics at the University of Chicago and practiced law at Cravath, Swaine & Moore in New York before joining the USC Law faculty in 1965. He has taught at University of Michigan Law School and Yale Law School . His recent publications include “Common but Differentiated Responsibilities in International Law” (American Journal of International Law, 2004), “The Environment in Wartime: An Overview” in *The Environmental Consequences of War: Legal, Economic, and Scientific Perspectives* (Cambridge University Press, 2000) and *Should Trees Have Standing?: And Other Essays on Law, Morals & the Environment* (25th anniversary ed., Oceana, 1996).

David Thomas

Vice-President, Academic, Malaspina University-College

Dr. David Thomas was born in Bangor, North Wales. He was educated at the University College of Wales (Honors, B.A., History), the University of London (P.G.C.E.), the University of Sussex (M.A., Education) and the University of Calgary (M.A., Political Science; Ph.D., Political Science). Formerly Chair of the Department of Economics and Political Science and Dean of the Faculties of Business Studies and Community Studies at Mount Royal College in Calgary, he is presently the Vice-President, Academic, at Malaspina University-College in Nanaimo, British Columbia. His research interests include Canadian federalism and United States-Canadian comparative politics/policy. He is the author of *Whistling Past the Graveyard: Constitutional Abeyances, Quebec, and the Future of Canada* (Oxford University Press, 1997); co-editor of *Braving the New World: Readings in Contemporary Politics* (Nelson-Thomson) now in its third edition; and is currently working on a third edition of *Canada and the United States: Differences That Count* (Broadview Press).

Karen Topelko

Policy Analyst, Ocean and Marine Fisheries Branch, BC Ministry of Environment

Karen has a background in commerce and natural resource management. She completed her B. Business Administration (Hon.) at Wilfrid Laurier University in 1994, and her B. Arts (Hon.) at the University of Victoria in 2003. In 2007 she completed her Master of Arts degree in the Department of Geography at the University of Victoria. Her graduate research focused on marine protected area management. Currently, Karen is a Policy Analyst with the British Columbia Ministry of Environment, providing advice in support of inter-governmental coastal and marine initiatives.

Boris Tyzuk

Legal Consultant, BC Offshore Oil and Gas Team

Tyzuk is Legal Counsel to the BC Offshore Oil and Gas Team. Education - BA 74(Winnipeg), BA 77, MA 82 Oxford (Rhodes Scholar Manitoba 1974), LLB 79(Manitoba). Called to the BC Bar 1981. After 6 years in private practice, I joined the Ministry of Attorney General in 1987 and since then I have practised in a number of areas. I was counsel to Ministry and the RCMP on all major issues of civil disobedience from 1988-2000. I coordinated aboriginal litigation from 1992 until 1995 for the Ministry. I was a member of the Aboriginal Law Group from 1992-2002 and was counsel to the Ministry of Transportation and Highways in negotiations with the First Nations Summit and the UBCIC on OIC 1036 issues. From 1993-1996 I was counsel to the Northwest Treaty Team in treaty negotiations with the Gitksan, Wet'suwet'en, Gitanyow, Tsim'shian, Haisla and Heiltsuk. In 1996 I became lead counsel to provincial Nisga'a Negotiating Team for Final Agreement negotiations as well as for the subsequent settlement legislation and implementation. I was counsel for the Sliammon and Nuu chah nult'h AIP negotiations in 2000 and 2001. In 2001 and 2002, I was also counsel to the Province in policy discussions with the First Nations Summit, Canada and the BC Treaty Commission, and I also provided legal advice on aboriginal issues to the Ministry of Energy and Mines and the Oil and Gas Commission.

Bill Wareham

Acting Director, Marine Conservation – David Suzuki Foundation

Bill Wareham has been an environmental advocate in BC for twenty years. He has worked as a campaigner and a program manager for many environmental organizations including the BC Wildlife Federation, Ducks Unlimited Canada, Earthlife Canada Foundation, BC Spaces for Nature and The Northwest Institute. Bill was involved in World Wildlife Fund Canada's Endangered Spaces campaign between 1989 and 1999, served as a director and chairperson of B.C. Wild and chaired the B.C. Environmental Network's Parks and Wilderness Caucus for several years. Bill also served as Executive Director of the Sierra Club of Canada – BC Chapter for four and half years and has extensive experience with campaign communications, fundraising, project management, land and marine-use planning and conservation program development for protected areas and wildlife conservation initiatives. Bill has worked for the David Suzuki Foundation since July 2002 in the capacity of Coastal Program Strategist and for the past three years as Director of the Suzuki Foundation's Marine Conservation Program. Bill has worked on issues across the country and has participated in many government forums and United Nations meetings related to marine fisheries. Bill is forty-eight years old and lives in Gibsons BC with his wife Karen and two children Asha and Robyn.

Kate Willis

Marine Planning Specialist

Kate Willis has a background in marine biology and marine policy. She grew up in New York City and St. Paul, Minnesota, and received a Bachelor of Arts degree in American Studies from Wesleyan University. From 1998-2004 she worked as a marine biologist studying marine mammal ecology and physiology in Texas, California, Australia, Hawaii, Alaska, Vancouver and Antarctica. Kate moved to Vancouver in 2001 to conduct research on thermoregulation in Steller sea lions, and in 2004 she received a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University at Galveston. In 2005 Kate worked for the National Oceanic and Atmospheric Administration's (NOAA) Office of International Affairs in Washington DC, where she worked on international fisheries and oceans governance issues. She joined Living Oceans Society in 2006. Kate loves to travel, especially in warm, tropical places where she can sit on a beach and read for hours.

Roger Wysocki

Oceans Policy Strategist

Regional Oceans Operations Branch – Pacific Desk
Fisheries and Oceans Canada, Ottawa

Roger has worked for both federal and provincial levels of government for the past 16 years. He has specialized in integrated management and sustainable development planning in a variety of positions with the Province of BC and the Department of Fisheries and Oceans (DFO).

In over 10 years with the Province of BC he conducted landscape level planning for the Ministry of Forests; for BC Environment he participated in two large integrated planning processes (Okanagan-Shuswap Land and Resource Management Plan (LRMP) and the Lillooet LRMP); and served as Regional Fish Protection Hydrologist with the Water Planning Section (BC Water Management Branch).

For the past 6 years he has been with Fisheries and Oceans Canada, with the Watershed Planning Section (Kamloops Area Office), now in National Headquarters, with the Regional Oceans Operations Branch (Pacific Desk).

Oran Young

Professor, Donald Bren School of Environmental Science & Management

Dr. Young specializes in the fields of Institutional and International Governance and Environmental Institutions, Dr. Young also serves as a Co-director of the Program on Governance for Sustainable Development at the Bren School, as Director of the Institute of Arctic Studies, and as Adjunct Professor of Political

Science at the University of Tromsø in Norway.

Dr. Young served for six years as the founding chair of the Committee on the Human Dimensions of Global Change of the National Academy of Sciences in the United States and is now chair of the Scientific Steering Committee of the international project on the Institutional Dimensions of Global Environmental Change (IDGEC) under the auspices of the International Human Dimensions Programme on Global Environmental Change.

In addition, Oran Young served for six years as vice-president of the International Arctic Science Committee and is currently a leader in the development of a decentralized University of the Arctic. Dr. Young's scientific work encompasses both basic research focusing on collective choice and social institutions and applied research dealing with issues pertaining to international environmental governance and to the Arctic as an international region.

Dr. Young's work as author or co-author of over twenty books and numerous scholarly articles includes the recent titles: *Governance in World Affairs*; *Creating Regimes: Arctic Accords and International Governance*; *International Governance: Protecting the Environment in a Stateless Society*; *Arctic Politics: Conflict and Cooperation in the Circumpolar North*, and *International Cooperation: Building Regimes for Natural Resources and the Environment*.

Commander Peter Godwin Chance, CD, MNI, RCN rtd

Born: Ottawa, Ont., 24 November 1920

Attended local schools, Graduated Lisgar Collegiate, Sen. Matric. Spring '39

Joined Ottawa Naval Reserve Division Oct., '38 (Transferred to Permanent Force 1940)

During WW11, from declaration of War with Germany, 3 September 1939, he served at sea, first in a destroyer escorting the first Atlantic Convoy to Britain and subsequently, until November 1945, saw further action in North Atlantic convoys, D-Day operations in the English Channel and off the French Coast. Other service was in Royal Naval ships in the North Sea, the South Atlantic and Indian Oceans including evacuation from Singapore in December 1941. Later in 1951/52 he saw a year's wartime service in the Yellow Sea during the Korean War.

Throughout a 32 year naval career in the Royal Canadian Navy, having qualified as a Specialist in Navigation and Aircraft Control, and also for an 'A' Pilot's Licence, he saw service in 13 ships from Aircraft Carriers, a Battleship, Cruisers, Destroyers and a Frigate. He commanded a Frigate and a Destroyer. Shore appointments, including senior ones, were in naval establishments in Canada, Britain and the United States.

Following retirement, in 1970, he served for five years as the first Executive Officer to the Dean, Osgoode Hall Law School of York University.

Since 1975, he has been active as a volunteer and supporter in a number of organizations:

Naval Officers Association of Canada-30 years

Duke of Edinburgh's Award Programme-30 years (12 years as Director BC&Y Division)

ALS Research Fund Raising-18 years

Maritime Awards Society of Canada (University Scholarships for Grad Students in Ocean Related Studies and Promotion of Public Education and Debate on Ocean related Issues)- 18 years

Nautical Institute-12 Years

Royal Canadian Legion-30years

Current Interests-In addition to the above, writing, published autobiography, "A Sailors' Life, Before It's Too Late", B4its2L8, 1920-2001.

In December 2002, he was awarded the Queen's Golden Jubilee Medal

In March 2003 he received the Admiral's Medal, presented by the Lieutenant-Governor in a ceremony at Government House in Victoria.

Recipient of the Douglas M. Johnston Award