

**List of Experts Attending  
IJC Experts Workshop on  
Water Consumption, Diversion and Removal  
Toronto, ON March 30-31**

**CANADIAN EXPERTS**

Dr. Peter Pearse  
6450 Elm Street  
Vancouver, B.C. V8V 1B3  
Tel: 604-261-4060  
Fax: 604-261-7853

Mr. Dean Jacobs, Executive Director  
Walpole Island Heritage Centre  
RR #3  
Wallaceburg, ON N8A 4K9  
Tel: 519-627-1475  
Fax: 519-627-1530

Ms. Sarah Miller  
Canadian Environmental Law Association  
517 College Street, Suite 401  
Toronto, ON M6G 4A2  
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Fax: 416-960-9392

M. Paul-Emile Barbeau  
105 Côte de la Montagne, bureau 701  
Québec, PQ G1K 4E4  
Tel: 418-694-0543  
Fax: 418-694-2259

Mr. James Bruce  
1875 Juno Avenue  
Ottawa, ON K1H 6S8  
Tel: 613-731-5929  
Fax: 613-731-3509

Dr. Ronald Loucks  
Loucks Oceanology Ltd  
24 Clayton Park Drive  
Halifax, NS B3M 1L3  
Tel: 902-443-1113  
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**US EXPERTS**

Dr. Gilbert F. White  
National Hazards Research &  
Applications Center  
University of Colorado at Boulder  
Campus Box 482, IBS #6  
Boulder, CO 80309-0482  
Tel: 303-492-6311  
Fax: 303-492-2151

Mr. Richard Wahl  
2575 Briarwood Drive  
Boulder, CO 80303  
Tel: 303-499-8638  
Fax: 303-499-8638

Mr. A. Dan Tarlock  
Professor of Law  
Chicago-Kent School of Law  
565 W. Adams Street  
Chicago, IL 60661  
Tel: 312-906-5217  
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Mr. Ric Davidge  
Alaska Water Exports  
3705 Arctic Blvd., Suite 415  
Anchorage, AK 99503  
Tel: 907-274-7074  
Fax: 907-258-7072

Professor Joseph Sax  
1150 Lombard Street  
Apartment #12  
San Francisco, CA 94109-9103  
Tel: 415-346-6221  
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## **Paul-E. Barbeau**

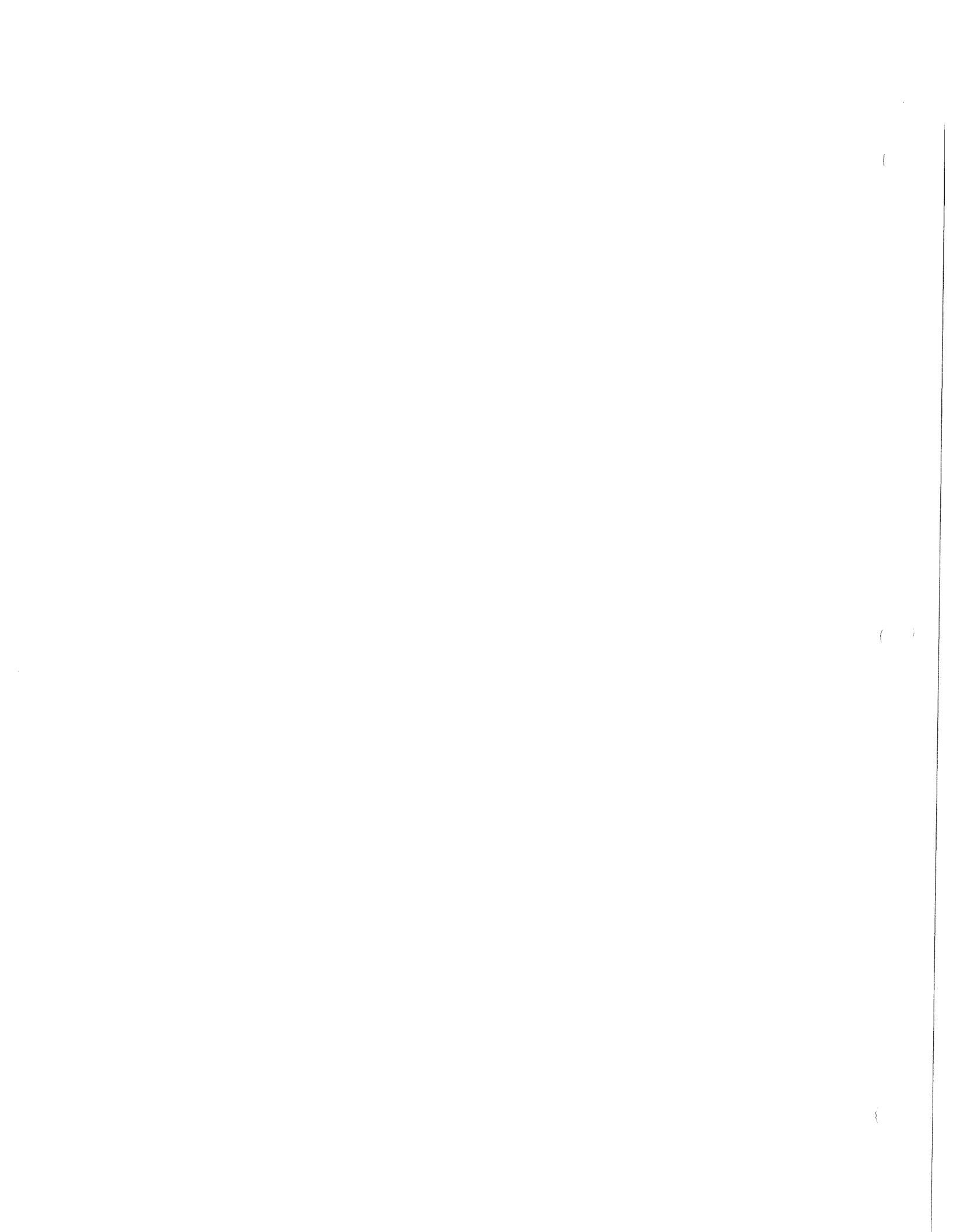
Paul-E. Barbeau, Naval Architect and P. Engineer, is founder of AQUAROUTE INC. a company dedicated to water transportation in bulk.

As past owner and director of ENERCHEM TANKERS, he gained some experience in the conversion and operation of a petrol carrier to a water carrier used for the transportation of fresh water to the Bahamas.

Still president and founder of NAVTECH INC. in 1973, specialists in naval architecture, he has acquired the related expertise to ship design and operation.

His interests, past involvement and experiences in shipping business let him foresee numerous aspects operators can exploit and various related concerns to be addressed.

Used to the legal aspects from international project management, his interventions are generally directed towards a global understanding where the technical tools serve methods governed by principles applied in a rigorous context.



## **ERIC DAVIDGE**

**President, Arctic Ice and Water Exports, Inc. (dba) Alaska Water Exports** – Titled "Alaska's Water Czar" by Alaskan news services, U.S. Water News, and the World Trade Center. Provides wide range of consulting services to foreign and domestic companies developing bulk and bottled water exports from Alaska. Clients include companies from Saudi Arabia, Taiwan, Anchorage, Washington, Canada, South Korea, Tanzania, Japan, Mexico, California, Las Vegas. Member IBWA and former member of Western State's Water Council; past member of the President's Commission on Western Water Policy.

### **Previous positions held of interest:**

**Director of Water and Chief of the Alaska Hydrologic Survey, State of Alaska** - Initiated efforts to market and develop Alaska's water and glacier ice export potential. Wrote new water resource protections passed into state law dealing with a host of water taking issues including protection of fish, wildlife, esthetics, recreation, future water needs or hydrologic area. Managed 40% of America's fresh water resources. Stabilized glacier ice harvesting permitting. Created and co-chaired, Alaska Water Management Council to facilitate water management cooperation and coordination between 22 state/federal agencies and the University of Alaska. Managed Dam Safety, Title Navigability, Water Rights adjudication. Prepared Alaska's first strategic plan for the management of all natural resources under state management.

**Assistant to the Governor (AK) for Policy and Legislation** - Prepared policy statements and headed a number of taskforces on a wide array of controversial issues.

**Director, Planning, Permitting and Government Affairs, Environmental Services, Ltd.** - Significant participant in the clean up and assessment of the Exxon/Valdez oil spill.

**Director, Development Services, Matanuska Susitna Borough** - Management responsibility for all planning, platting, public lands, parks and recreation, cultural resources and code compliance. Member, Susitna Forest Management Planning Team. Led efforts to develop new port and rail services for borough.

**Assistant to Director, U.S. Fish and Wildlife Service, Department of Interior** – Chairman, Work Group on Subsistence. Chairman, RS2477 Task Force. Oversight on all refuge planning in Alaska.

**Deputy Assistant Secretary; Fish, Wildlife and Parks; US Department of Interior** – Chairman of Federal Land Policy Group (BLM, FS, FWS, NPS). Chairman, National Coastal Barrier Task Force responsible for delineating undeveloped coastal barriers along the Atlantic and Gulf coasts. Federal Commissioner to New Jersey Pinelands Commission. Member, President's Advisory Council for Historic Preservation. Member, Board of Directors, National Trust for Historic Preservation. Represented the President in US/Soviet negotiations on cooperative Arctic Oceans Research. Headed development of Management by Objectives program for the Department of Interior.

**Staff Assistant, U.S. Senator Ted Stevens** – Responsible for a host of people and natural resource areas including federal land protection policies and practices.

Member, Board of Regents, University of Alaska.

Member, Board of Directors, Resource Development Council of Alaska

Director, Division of Lands, Resource Development Council

Founding Member, Coastal Plain Committee, The Alaskan Coalition for American Energy Security

Statewide Issues Coordinator, Governor Hickey (twice) and Lt. Governor Coghill (once) election campaigns

Member, Board of Directors, and Chairman, Legislative Committee, Friends of Children (child abuse issues)

Chairman, Commission on Public Transit, Fairbanks, Alaska

**Education** – Masters Degree, Public Administration, University of Alaska  
w/special attention to Project and Natural Resource Management  
Post Graduate Work - Architecture and Engineering

3705 Arctic Blvd, Suite 415, Anchorage, Alaska 99503  
W (907) 274-7074 FAX (907) 258-7072 CEL (907) 727-5868



Dr./Mr. James P. Bruce, O.C., FRSC, D.E.S. (honoris causa) – Jim Bruce has more than 40 years' experience in the fields of meteorology, climate, water resources, disaster mitigation, and environment in senior executive positions with Environment Canada and UN organizations. Among these positions, were Director, Canada Centre for Inland Waters, Burlington, 1967-74, Director General Inland Waters, 1974-77, Assistant Deputy Minister, Environmental Management, 1977-80, and Assistant Deputy Minister, Atmospheric Environment Service, 1980-85. From 1986-1989, Mr. Bruce was Director of Technical Cooperation and Acting Deputy Secretary-General of the World Meteorological Organization, Geneva. More recently, Mr. Bruce has been WMO principal consultant for the Project on Capacity Building for Management of National Meteorological and Hydrometeorological Services. He recently completed terms as co-chair of the Intergovernmental Panel on Climate Change (IPCC) Working Group III on economics and as chair of the Canadian Climate Program Board. He now chairs the International Advisory Committee, UN University International Network on Water, Environment and Health, is a Senior Associate with Global Change Strategies International, Inc., and is a member of the Board of the International Institute for Sustainable Development. Recent awards include the IMO Prize of the World Meteorological Organization for "exceptional world-wide contributions in meteorology and hydrology", Officer of the Order of Canada and Fellow of the Royal Society of Canada.





**Dr. Ronald H. Loucks**  
**R. H. Loucks Oceanology Ltd.**  
**24 Clayton Park Drive**  
**Halifax, Nova Scotia, B3M 1L3**  
**(902) 443-1113, ron.loucks@ns.sympatico.ca**

### **History**

Ron Loucks was born in Prince Albert, Saskatchewan, in 1940, and educated in British Columbia schools, graduating from the University of British Columbia in 1961 (B.Sc., Honours Physics), and 1962 (M.Sc., Physics) and the University of Michigan in 1969 (Ph.D., Oceanography).

He was a Research Scientist in Coastal Oceanography at the Bedford Institute of Oceanography, Dartmouth, Nova Scotia between 1963 and 1974. In 1975 he founded R.H. Loucks Oceanology Ltd. to pursue oceanographic consulting, and, in 1995, RL Learning Systems Inc., a vehicle for (eco)system consulting projects.

### **Core Interest**

His core interest is the stability and resilience of natural, modified and built systems.

### **Relevant Experience**

Relevant experience includes oceanographic research tracing the pathway of influence of the spring freshet of the St. Lawrence Rivers to the Atlantic coastal waters off Nova Scotia and participation as a coastal oceanographer in the Coastal Zone Management Project in Prince Edward Island.

More recently, he was the Science Director of the First Lake Project, a homesite watershed management for improvement of lake water quality.

He was a member of Federal Environmental Assessment Review Panel on the bridge to Prince Edward Island. Presently he is a member of a Canada-Nova Scotia Panel reviewing environmental and socio-economic merits of extending or removing the existing moratorium against petroleum exploration on Georges Bank, a major fishing area spanning the Canada-US boundary.

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## BRIEF BIO: SARAH MILLER

Sarah Miller has worked as the Coordinator of the public interest legal clinic, the Canadian Environmental Law Association (CELA) since 1978. During that time she has been involved in many Great Lakes water quality and quantity issues. Some of this work has included:

- a submission to the IJC Great Lakes Diversions & Consumptive Uses Reference in 1985,
- advocacy to strengthen the Great Lakes Charter and participation on the steering committee of Center For the Great Lakes project and publication *The Law and the Lakes - Toward a Legal Framework for Safeguarding the Great Lakes Water Supply* in 1985,
- participation in the release of the international coalition Great Lakes United (GLU) report *The Threat of Water Diversions and the Implementation of the Great Lakes Charter*, 1986,
- organizing a public debate in Toronto Council chambers on the GRAND (Great Recycling and Northern Development) Canal proposal,
- extensive community work as Canadian Chair of the Sustainable Water Taskforce of GLU from 1986 - 1998. This included responding to all of the proposals for withdrawal of Great Lakes water during that period,
- writing a chapter on the Great Lakes for an anthology *Water and Free Trade*, James Lorimer & Company, 1987,
- on-going consultation on most water management policies and regulations in Ontario,
- participation in the City of Toronto's Waterfront Remedial Action Plan (RAP) and the Hamilton RAP 1986 - 1993,
- coordination of the CELA and GLU report *The Fate of the Great Lakes - Sustaining or Draining the Sweetwater Seas?*, 1997,
- founding an Ontario coalition Save Ontario Water, in 1997 and a national coalition Water Watch, in 1998, which are both dedicated to the protection of water and water services through public control and conservation,
- participation in the case coordination team for CELA and GLU intervention as a party in the Ontario Environmental Appeal Board Hearing on the 1998 NOVA permit; and
- participation in a committee organizing a series of events and a report on *Everyday Carcinogens : Stopping Cancer Before it Starts*, March 25 and 26, 1999 in Hamilton.

Sarah's other work has been in her community on Toronto's barrier sandbar where she has been a founder of the Toronto Island Residential Community Trust, housing co-op and community celebratory theatre collective, Shadowland.

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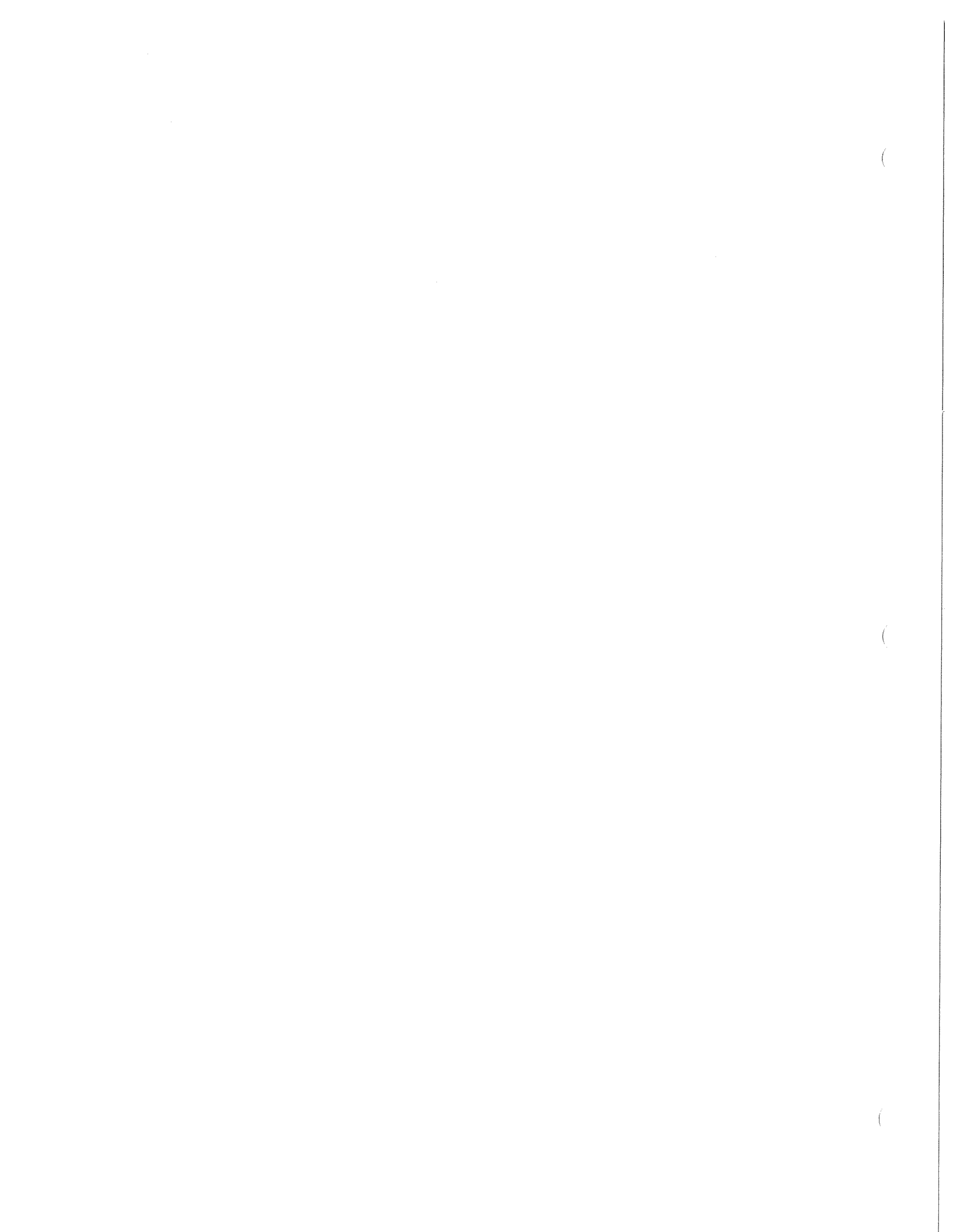
**PETER H. PEARSE**

**BIOGRAPHICAL NOTE**

Dr. Pearse is a specialist in natural resources economics and policy, having spent most of his career as Professor of Economics and Forestry at the University of British Columbia.

In addition to his academic work, Dr. Pearse has conducted two Royal Commissions of Inquiry on resources policy in Canada - one on British Columbia's Forest resources and one on Canada's Pacific fisheries. he has also chaired two other public inquiries on Canada's water resources and freshwater fisheries, and has served as an advisor to foreign governments and international organizations on natural resources policy.

Dr. Pearse is now a private consultant on natural resource issues, a member of several government advisory bodies, and a director of business organizations. His publications deal mainly with government policy on forests, fisheries, and water resources.



## **Bio for Dr. Richard Wahl**

Dr. Richard W. Wahl has a degree in natural resources economics from the Johns Hopkins University and worked at the U.S. Department of the Interior for 13 years. While at Interior, in addition to reviewing the economics of water resources projects (benefit-cost analysis, federal subsidies, and water pricing) and related water use issues, Dr. Wahl focussed on promoting the development of markets in water supplied by the U.S. Bureau of Reclamation in the seventeen western states. Dr. Wahl is currently a consultant based in Boulder, Colorado. Recent work for the U.S. Bureau of Reclamation and the State of California has involved the reallocation of water to fisheries and instream protection in the Central Valley of California.

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March 1999

**Gilbert F. White**

Institute of Behavioral Science  
University of Colorado  
Campus Box 482  
Boulder, Colorado 80309-0482

Born November 26, 1911

S.B., S.M., Ph.D., University of Chicago

**POSITIONS HELD:**

Geographer with the Mississippi Valley Committee, National Resources Committee, and National Resources Planning Board, 1934-1940

Bureau of the Budget, Executive Office of the President, 1940-1942

Conscientious objector to military service, American Friends Service Committee: France, Germany, and U.S., 1942-1946

President, Haverford College, 1946-1955

Professor of Geography, University of Chicago, 1956-1969

Professor of Geography and Director, Institute of Behavioral Science, University of Colorado, 1970-1978

Director, Natural Hazards Research Applications and Information Center, 1976-1984; 1992-1994

Gustavson Distinguished Professor Emeritus of Geography, 1980-

**OTHER PROFESSIONAL ACTIVITIES:**

Member, Hoover Commission Task Force on Natural Resources, 1948

Vice Chair, President's Water Resources Policy Commission, 1950

Chair, United Nations Panel on Integrated River Development, 1957-1958

Consultant, Lower Mekong Coordinating Committee, Cambodia, Laos, Thailand, and Vietnam, 1961-1962, 1970

Chair, Bureau of Budget Task Force on Federal Flood Policy, 1965-1966

Scientific Advisor on Man-made Lakes to Administrator of United Nations Development Programme, 1966-1971

Chair, Commission on Man and Environment, International Geographical Union, 1969-1976

Consultant, Water Quality Studies on Nile-Lake Nasser, 1975-1979

Member, Advisory Group on Water, United Nations Environment Programme, 1987-1993, Chair, Aral Sea Basin, Diagnostic Panel, 1990-1993

Chair, Committee on Sustainable Water Supplies for the Middle East, National Research Council, 1996-1999

Member, Committee on Flood Loss Data, FEMA/National Institute on Building Science, 1997-

