

APPENDIX I

THE WORLD SUMMIT ON SALMON

Morris J. Wosk Centre for Dialogue

Simon Fraser University, Burnaby, BC, June 10-13, 2003

Presenter Biographies

Xanthippe Augerot is the Director of Conservation Programs at the Wild Salmon Center's home office in Portland, Oregon and the Co-chair of the IUCN Species Survival Commission's Salmon Specialist Group. Dr. Augerot earned a masters of marine affairs from the University Washington, and a PhD in Geography from Oregon State University. She honed her Russian language skills and became interested in fisheries policy while working for the first US-Soviet joint venture company, Marine Resources International. Augerot spent a year in Washington, DC working for the Senate Commerce Committee on a Knauss Fellowship, which led to a five-year tenure at the Washington Sea Grant Program, in Seattle. She founded the Russia Far East Salmon Biodiversity Program at the Wild Salmon Center and, in addition to oversight of the conservation programs, is now the Co-Director of the joint Ecotrust (Portland, OR)- Wild Salmon Center State of the Salmon Program.

Donna Darm is a Northwest native and graduate of the University of Washington Law School. She spent 5 years as a lawyer at the State Department in Washington, D.C. before returning to the Northwest to continue her work on fisheries issues. She has been with NOAA Fisheries since 1992 in a variety of policy positions. Currently she is the Assistant Regional Administrator for Protected Resources, responsible for managing the agency's listing decisions, critical habitat designations, and 4(d) rules under the ESA. Prior to formation of a new Salmon Recovery Division, she was involved in the agency's recovery planning efforts.

Carole Eros is responsible for species at risk recovery planning for Fisheries and Oceans Canada, Pacific Region and is currently initiating recovery planning processes for three populations of Pacific salmon. Ms Eros has a Masters degree in marine biology from James Cook University, Australia. After completing her Masters degree, Carole held a research position in the School of Tropical Environment Studies and Geography developing national and

international management and conservation strategies for dugongs, a threatened marine mammal throughout the Indo-Pacific. Carole joined Fisheries and Oceans Canada (DFO) in 2000 and has held positions within Fisheries Management including Aboriginal Fisheries and was directly responsible for managing the Canadian Pacific halibut and sablefish fisheries.

Stephen Farber is the Director of Public and Urban Affairs, Graduate School of Public and International Affairs, University of Pittsburgh. Dr. Farber has a Ph.D. in economics from Vanderbilt University. His research and policy interests are in valuing and managing natural capital. He has particular interests in the valuation and management of wetlands systems. He has served as consultant and advisory board member for coastal management and watershed management organizations.

The Hon. John Fraser is the Chair of the Pacific Fisheries Resource Conservation Council. He was born in Yokohama, Japan and raised in Vancouver. He graduated from the University of British Columbia and practised law until his election to the House of Commons. During his years in Parliament, John Fraser served in key positions, including Minister for the Environment and Minister of Fisheries. He was the first person to have been elected Speaker of the House of Commons by his peers, a practice instituted in 1986. In 1994, John Fraser was selected to head the Fraser River Sockeye Public Review Board investigating the salmon fishery. He subsequently represented Canada as Ambassador for the Environment, responsible for Canadian follow-up to commitments made at the United Nations Rio Conference on Environment and Development. John Fraser is a Queen's Counsel, an officer of the Order of Canada, and a member of the Order of British Columbia and he holds the Canadian Forces Decoration. In 1999, he was awarded honorary Doctor of Laws degrees by Simon Fraser University and St. Lawrence University for his contributions to environmental causes.

Terry Glavin is a Canadian conservationist and the author of several books whose most recent major work, *The Last Great Sea: A Voyage Through the Human and Natural History of the North Pacific Ocean*, won the 2001 Hubert Evans Prize as well as the Roderick Haig-Brown conservation award from the North Pacific chapter of the American Fisheries Society. Mr. Glavin was a founding member of the Pacific Fisheries Resource Conservation Council and has worked with a variety of conservation organizations in British Columbia. He is currently the marine conservation adviser to the Sierra Club of Canada, B.C. chapter. He is also the editor of *Transmontanus Books* and a frequent contributor to various newspapers and magazines in Canada.

Ray Hilborn is the Richard C. and Lois M. Worthington Professor of Fisheries Management in the School of Aquatic and Fishery sciences, University of Washington. His general areas of research are fisheries population dynamics, management, and natural resource conservation, and he has worked extensively on the fishery resources of the West Coast of the U. S. and Canada and New Zealand and Australia. He currently serves on the scientific advisory panel for the Presidents Commission for Ocean Policy, the Editorial Board of the Canadian Journal of Fisheries and Aquatic Sciences and the Independent Advisory Panel for the Commission for the Conservation of Southern Bluefin Tuna and has worked with a number of other national and international fisheries management organizations. His is the co-author of 5 books and monographs on natural resource management, as well as 100 articles. His long-term areas of research have been explicit spatial modeling of populations, design of adaptive management systems for natural resources, the behavior and dynamics of fishing fleets, relating models to data using maximum likelihood and Bayesian methods, fisheries stock assessment and population viability analysis. He currently has major projects on salmon in Western Alaska, salmon, and marine fishes on the west coast of the lower 48 states, and stock assessments and marine mammal interactions in New Zealand marine fisheries.

Kjetil Hindar is a Senior Research Scientist with the Norwegian Institute for Nature Research in Trondheim, Norway, a leading center in Europe for research on applied ecology and natural resource management. His research

focuses on the population genetics and ecology of salmonid fishes, and on the effects of releasing non-native fish into natural environments.

Jeffrey Hutchings is an evolutionary ecologist whose research focuses on the life history, behaviour, population dynamics, and conservation biology of marine and anadromous fishes, particularly Atlantic cod, Atlantic salmon, and brook trout. A member of faculty at Dalhousie University since 1995, he is a Non-Government Member on COSEWIC and Editor of Canadian Journal of Fisheries & Aquatic Sciences.

Fred Kircheis is a Certified Fisheries Scientist and Life Member of the American Fisheries Society, and a Fellow of the Americana Institute of Fishery Research Biologists. He was a Fishery Biologist with the State of Rhode Island and a Fishery Research Biologist with the State of Maine. He specializes in all aspects of landlocked Arctic charr, and management and conservation issues. Other research interests include brown trout, lake trout, and diadromous species such as American eel, alewives, and smelt. Fred was the Executive Director of the Maine Atlantic Salmon Commission from 1999 to January 2003 when he retired to pursue other interests including spending time with his grandchildren, boating and outdoor recreation.

Jan Konigsberg established Trout Unlimited's Alaska field office in 2000 to direct the Alaska Salmonid Biodiversity Program. Prior to his Trout Unlimited work, Jan served several years as executive director of Alaska Conservation Foundation. He has a Masters in Philosophy from the University of Montana.

Robert T. Lackey is a fisheries biologist at the U.S. Environmental Protection Agency's research laboratory in Corvallis, Oregon, and is also courtesy professor of fisheries science and adjunct professor of political science at Oregon State University. For the past 35 years, he has dealt with a range of natural resource issues from positions in government and academia. Among his professional interests are natural resource ecology and the interface between science and public policy. He has written 100 scientific journal articles. His current professional focus is providing policy-relevant science to help inform ongoing salmon policy discussions. He is a

Certified Fisheries Scientist and a Fellow in the American Institute of Fishery Research Biologists.

David Marmorek is an aquatic ecologist, and President of ESSA Technologies Ltd., a company based in Vancouver, B.C.. He enjoys combining his technical knowledge (modelling, experimental design, adaptive management, decision analysis) with people skills (facilitation, team leadership) to tackle problems dealing with fish populations and habitat at various spatial scales. He's also an Adjunct Professor in the School of Resource and Environmental Management at Simon Fraser University.

Mitsuhiko Nagata is a Research Scientist at the Hokkaido Fish Hatchery with the Department of Fisheries and Forestry of the Hokkaido Government. Dr. Nagata's current research includes population dynamics and forecast of Hokkaido salmon (chum, pink and masu), behavioural ecology of masu salmon, monitoring activity for population dynamic, age structure, hatchery programs, and conservation activity for river restoration. He also is involved with forum activity for the restoration of wild salmon and better habitats.

Arnie Narcisse is a Stlatlimx-Blackfeet Indian who is the Chairman/Speaker for the BC Aboriginal Fisheries Commission. The Canadian Wildlife Federation recently awarded Arnie the prestigious "Roderick Haig-Brown" award in June 2000 recognizing his outstanding contribution to resource conservation. Arnie has also worked with Universities on the west coast in an effort to conserve wild salmon and to encourage First Nation students to pursue fisheries, science and education programs. He is a river fisherman and former manager of the Nicola Valley Watershed Stewardship and Fisheries Authority. As manager of the NWSFA, Arnie was instrumental in bringing the various stakeholders together to work on a number of fisheries projects in the Nicola Valley including construction of a permanent Coho Enumeration fence.

Jennifer L. Nielsen is Fisheries Supervisor and Research Biologist with the USGS Alaska Science Center, Office of Biological Science. She has conducted salmonid and fisheries research throughout the western Pacific for the past 23 years. Dr. Nielsen holds Associate Faculty positions at the University of Alaska,

Fairbanks, School of Fisheries and Ocean Sciences and the Marine Science Institute; the Department of Biology, University of Alaska, Anchorage; and serves on the Graduate Faculty for Fisheries and Wildlife, Oregon State University. From 1995-1999, she was a visiting scientist at Hopkins Marine Station, Stanford University. From 1995-1999, she was an Adjunct Professor in Ichthyology and Fisheries at the University of California, Berkeley and Moss Landing Marine Laboratory, and served on the Scientific Review Board for the Monterey Bay Aquarium. Dr. Nielsen has published over 40 peer-reviewed journal publications and book chapters, numerous technical reports, and gives frequent national and international presentations at scientific meetings addressing research issues in fish conservation, behavior, evolution, and genetics. Her research is recognized internationally for its contribution and focus in fisheries conservation and management.

Randall M. Peterman is a Professor in the School of Resource and Environmental Management at Simon Fraser University (Burnaby, British Columbia, Canada). He holds a Canada Research Chair in Fisheries Risk Assessment and Management and is Director of the Cooperative Resource Management Institute, a unit on campus that facilitates collaboration among university researchers, resource management agencies, and industry. Randall's research focuses on quantitative methods to improve the understanding and management of fish populations, particularly in the presence of uncertainties and conservation risks. His research group specializes in developing and applying quantitative methods to improve fisheries management. Randall has served on various policy advisory groups and helped to write the 1995 United Nations Food and Agriculture Organization's (FAO) "Precautionary Approach to Fisheries".

Website:

<http://www.rem.sfu.ca/faculty/peterman>

Research: <http://www.rem.sfu.ca/fishgrp>

John Pierce is the Dean of Arts at Simon Fraser University. He is also principal investigator in the Promoting Community Economic Development for Forest-Based communities research project being funded by Forest Renewal BC, and the co-investigator in the collaborative Social Sciences and Humanities Research Council funded project, the Georgia Basin Futures Project at the University of British

Columbia. Prior to becoming Dean of Arts, Dr. Pierce was the Director of the Community Economic Development Centre and Chair of the Department of Geography at Simon Fraser University. He is a leading scholar in sustainable land use, food resource and community change.

John R. Post is Professor and Chair of the Division of Ecology in the Department of Biological Sciences at the University of Calgary. His research program focuses on recruitment dynamics of freshwater fishes, climate impacts on northern fishes and the development of quantitative tools for management policy assessment of recreational fisheries.

Guido Rahr is the President of the Wild Salmon Center. Rahr earned a Masters of Environmental Studies from Yale University and has more than seventeen years of experience working for regional and international conservation organizations, including Conservation International and Oregon Trout, where his work won the President's Fisheries Conservation Award from the American Fisheries Society. He has also served as a consultant to the United Nations Development Programme. Rahr serves as Chair of the World Conservation Union (IUCN) Salmonid Specialist Group and Chair of the Tillamook Rainforest Coalition, and has published articles on salmon and river conservation in both scientific and popular literature.

William Rees received his Ph.D. in population ecology from the University of Toronto and has taught at the University of British Columbia's School of Community and Regional Planning (SCARP) since 1969. He founded SCARP's 'Environment and Resource Planning' concentration and from 1994 to 1999 and served as director of the School. Professor Rees' teaching and research focus on the public policy and planning implications of global environmental trends and the necessary ecological conditions for sustainable socioeconomic development. Much of this work is in the realm of human ecology and ecological economics where Professor Rees is best known for inventing 'ecological footprint analysis.' In 1997, UBC awarded William Rees a Senior Killam Research Prize in acknowledgment of his research achievements and in 2000 *The Vancouver Sun* recognized him as one of British Columbia's top "public intellectuals".

Brian Riddell is currently Science Advisor to the Pacific Fisheries Resource Conservation Council and is on assignment from the Canadian Department of Fisheries and Oceans. Brian has been a research scientist at the Pacific Biological Station since migrating west in 1979 from McGill University and his studies on Atlantic salmon. He has worked extensively in the stock assessment and genetics of Pacific salmon, and in domestic and international salmon management issues. Since 1996, he has also participated on the Independent Scientific Advisory Board and Independent Scientific Review Panel, scientific advisory boards in the Pacific Northwest U.S. providing advice on science programs and salmon recovery initiatives. He has received several awards for his work in salmon management and conservation and his interests continue to be in the population biology and genetics of Pacific salmonids, including conservation genetics of small populations and the impacts of intensive culture on enhanced and wild populations.

Mark Saunders is the Wild Salmon Policy coordinator, working in the Fisheries and Oceans Canada's (DFO) Policy Branch in the Pacific Region. He has worked as a stock assessment research biologist at the Pacific Biological Station for the past 20 years with recent emphasis on the development of applied technologies for fisheries stock assessment.

Greg Taylor graduated from Simon Fraser University with Masters in Resource and Environmental Management. He began his career with the last remaining isolated cannery on the North Coast. He worked on the QCI for two years in the 1980s buying troll fish and clams. Greg Taylor began working for Ocean Fisheries Ltd. in 1985. He participated on the Skeena Watershed Committee Steering Committee and worked with First Nations to develop the first in-river commercial fishery on the North Coast. He is the Co-Chair of the North Coast Advisory Board and Past President, and current spokesman, for the Northern Processor's Association. He is currently Director of Acquiring for Ocean Fisheries Ltd. in Vancouver.

Carl Walters is a Professor at the Fisheries Centre at the University of British Columbia. His areas of research include the development of rapid techniques for teaching systems analysis

and mathematical modeling to biologists and resource managers. He mainly works on fish population dynamics, fisheries assessment and sustainable management. He believes the heart of fisheries is how to manage harvest: “The main thrust of my research is to figure out how to design management systems that are robust in an area of really high uncertainty”.

Reg Watson is a senior research fellow at the Fisheries Centre at the University of British Columbia. Reg Watson has expertise in a range of fisheries areas including penaeid biology, trawl fisheries, stock assessment and computer modeling. He has published extensively on the simulation and optimization of trawl fisheries, and on bias in underwater visual census. In addition to scientific journals, his work on global fisheries has recently been published in *Nature*, *La Recherche*, *National Geographic*, and will soon appear in *Scientific American*. An experienced ecological modeler, he was a principal researcher in a study of the impacts of marine protected areas and artificial reefs in Hong Kong. He led a team that developed national marine biodiversity policy for Indonesia. He has 30 years of experience working internationally in fisheries and ecology projects. Dr Watson is currently involved with the acquisition, management, analysis and visualization of global fisheries data with the 'Sea Around Us' project.

Fred Whoriskey is the Vice-President of Research and Environment at the Atlantic Salmon Federation. He received his PhD from l'Université Laval in 1984 and has held various positions at Woods Hole Oceanography Institution (WHOI) in Woods Hole, Massachusetts, the University College of Wales in Aberystwyth, UK and at McGill University. His research interests include fish biology and ecology, and the impacts of exotic species on native ecosystems and is heavily involved in public policy issues, especially with regards to environmental impact assessments. He was appointed Deputy Scientific Coordinator of the Great Whale Scientific Support Office in 1993. He has served as a scientific advisor to the Moose River/James Bay Coalition, the Grand Council of the Cree (Quebec), and the Atlantic Salmon Federation on hydro-electric development on the Moose River, Great Whale River, and Ste. Marguerite/Moisie Rivers respectively. Presently, Whoriskey serves on the

Board of Aquanet (Canada's National Centre of Excellence in Aquaculture), the Huntsman Marine Science Centre, the Atlantic Salmon Broodstock Development Program, and the St. Lawrence Valley Natural History Society.

Noel Wilkins is a geneticist and Professor of Zoology in the National University of Ireland, Galway. Previously he was employed by the Department of Agriculture and Fisheries for Scotland studying salmon at West Greenland. Nowadays he runs a salmon-breeding programme in conjunction with the Electricity Supply Board on the River Shannon, the biggest river in Ireland. He was Chair of the Salmon Management Task Force set up in 1996 by the Irish government and first Chair of the National Salmon Commission. He and his students work on all aspects of the Atlantic salmon and on the restoration of stocks to areas where they have become severely reduced.

Ken Wilson is a consulting fisheries biologist working as Scientific Advisor to the Sierra Club of BC Marine Committee, and with Fraser First Nations in the capacity of Stock Management Coordinator. In this capacity, and through the Marine Fish Species Specialist Group of COSEWIC, he is involved in the assessment, listing and recovery planning of BC salmon stocks including Upper Fraser Coho, and Sakinaw and Cultus Sockeye. Ken's work is primarily concerned with assessing the status of Fraser salmon stocks, and working with First Nations, Environmental Non-government Organizations, and Government management agencies to build stock assessment capacity and address stock management concerns through harvest regulation.

Malcolm Windsor is the Secretary of the North Atlantic Salmon Conservation Organization (NASCO) based in Edinburgh, Scotland. NASCO is an inter-government organization arising from a Treaty to conserve and internationally manage the North Atlantic Salmon with virtually every North Atlantic nation as a member. Dr Windsor's task was to set up and run this Organization following international concern about the future of the species. One of its tasks is to reach international agreement on regulatory measures based on scientific evidence to conserve stocks. NASCO has developed close links with the International Council for the Exploration of the Sea in setting the scientific questions which must be answered

if NASCO is to achieve its aims. The NASCO Secretariat has recently put significant effort into developing agreements and guidelines on implementation of the Precautionary Approach to fishery management, habitat, introductions and transfers, aquaculture and transgenics. It is also developing approaches to socio economic evaluations of the salmon resources and how such aspects of the resource can be instigated in the Precautionary Approach. Dr Windsor's post has many aspects: diplomatic, scientific, administrative, financial, publishing, legal and other elements.

Previously Dr Windsor was with the British Chief Scientist's Group within the Ministry of Agriculture, Fisheries and Food in London. There he reported directly to the Chief Scientist and his task was to implement, for fisheries research, the UK Government's policies for R&D. Before that he worked as a researcher at the UK's Torry Research Station and was concerned with the food and feed aspects of fishery resources. Earlier he worked in the field of physical chemistry in the US at the University of California. His earlier experience was in industry.