

PETER WELLS
Senior Research Fellow
IOI-Canada

Peter Wells is an Adjunct Professor in the School for Resource and Environmental Studies (since 1987) and the School of Information Management (2012), both in the Faculty of Management, and in the Marine Affairs Program, Faculty of Science (1991); and a Senior Research Fellow, International Ocean Institute, at Dalhousie University, Halifax, NS. He holds a B.Sc. in Biology (McGill University, 1967), a Master of Science in Zoology (University of Toronto, 1969) and a Ph.D. in Zoology (University of Guelph, 1976). His Ph.D. dissertation was a study of the sub-lethal toxic effects of petroleum hydrocarbons on young life stages of the lobster, *Homarus americanus*. He worked for the Canadian Federal Government for 34 years, starting with the Fisheries Research Board of Canada (FRBC) in 1969 and with Environment Canada in 1974. He retired June 30th, 2006, from Environment Canada, his last position being the Head, Coastal and Water Science Section, and a Senior Research Scientist and Manager, Coastal Ecosystems, Environmental Conservation Branch (Dartmouth, NS). He retired to pursue further teaching, research and writing in marine ecotoxicology, marine environmental information management, and community service on issues affecting the marine environments of the Bay of Fundy, Gulf of Maine and North-west Atlantic.

Previous academic appointments were held at the Institute of Environmental Studies (University of Toronto); Acadia Centre for Estuarine Research, Acadia University, Wolfville, NS; Department of Biology, University of New Brunswick, Fredericton, NB; and Bermuda Institute of Ocean Sciences. At Dalhousie, he has taught and supervised or co-supervised many (>30) graduate students in environmental toxicology, marine environmental science, marine affairs, and marine environmental information.

Long-term research interests are largely in aquatic and marine ecotoxicology, monitoring, and marine information. These include the ecotoxicology of complex mixtures (e.g., petroleum oils, contaminated sediments); the development and application of micro-scale aquatic toxicity tests; the role of marine ecotoxicology in identifying, assessing, managing and monitoring marine pollutants; the role of aquatic science in coastal environmental management, and in community-led monitoring and assessment projects; and most recently, the use and influence of marine environmental information in environmental decision making and policies. Current research includes biological indicators for coastal ecosystems (utilizing mussels for monitoring contaminants) and the influence of information produced by governmental bodies.. Since 1970, Wells has written (single- or co-authored), contributed to, or edited over 300 primary and technical publications; these include various book chapters, six books between 1989-2018 on various aspects of water pollution and aquatic toxicology, four state of the marine environment reports (for the United Nations, Uruguay, Canada and the Gulf of Maine Council), twelve Proceedings of BoFEP Bay of Fundy Science Workshop; and two Proceedings of the Aquatic Toxicity Workshop.

Wells has served on various technical committees, including two with the National Academy of Sciences (USA), one with the OECD, and three with the United Nations on marine oil pollution, toxic chemicals carried by ships, and invasive species. Internationally, he was a Member (1988-2004) and Vice-Chairman and Chairman (1996-2000) of the United Nations Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP); until 2006, Chairman of its Oil Inputs WG. In 2006, he served on the SETAC expert panel on sewage management for Victoria, BC.

Current activities (circa 03/20) include: Chair, Bay of Fundy Ecosystem Partnership (BOFEP); Editor, Proceedings of the Nova Scotian Institute of Science (2010-date); Co-Lead, the Environmental Information: Use and Influence Research Program, Dalhousie University; Canadian Co-Chair, the GOMC Gulfwatch contaminants monitoring program (2000-date); Bulletin Correspondent, CSEB. Active memberships include - Emeritus Member, the Canadian Intergovernmental Ecotoxicity Technical Group, Environment Canada; Charter Member of SETAC (Society of Environmental Toxicology and Chemistry); Member, Sigma XI.

Honours and awards include: Fellow, AAAS (2000); the SETAC Presidential Citation for Exemplary Service (2002); Dalhousie University's 2002-2003 Award of Excellence for Teaching, Sessional and Part-time Instructor (2003); co-winner with Dalhousie colleagues, Grey Net Award for best paper at the International Conference on Grey Literature (GL5), Amsterdam, 2003 (2004); Government of Canada's Public Service Award (2004); Environmental Stewardship Award, BoFEP (2006); inducted Member in Sigma XI, the Scientific Honour Society (2009); Crystal Award (joint, for Operation Oil), Bedford Institute of Oceanography (Oct., 2012); the Susan Snow-Cotter Award for Environmental Management, Gulf of Maine Council on the Marine Environment (June, 2013); Bronze Medal, Alpine Club of Canada (2014); Fellow, Royal Canadian Geographical Society (2016).