

DONALD L. LUSH, Ph.D.

PROFESSIONAL EXPERIENCE

Don is currently the President of a Canadian company specializing in the provision of expertise and products to a number of Canadian and international companies in the nuclear and other environmental and related fields. He completed his Ph.D. at the University of Waterloo in 1973 where he studied the movement of radio- tracer organic materials and water through food chains, groundwater and surface water systems. He has extensive experience in the evaluation of human activities on the natural environment. His expertise is recognized by industry and government alike through their choice of his services on large multidisciplinary projects. His involvement includes:

- Advising on policy, technical protocols and licensing for nuclear facilities that are new, operational or about to undergo decommissioning.
- Supervision and management of large multidisciplinary projects evaluating the effect of chemical and radionuclide releases to air, groundwater and surface water systems
- Testifying as an expert witness throughout Canada and the U.S.A. on controversial environmental projects related to chemical and radiochemical environmental issues
- Participation on national and international expert committees and groups responsible for guidance on nuclear safety issues
- Negotiating with regulatory agencies on the appropriate amount of environmental performance bonds for decommissioning of nuclear facilities
- Teaching of university courses in areas of environmental contamination, fate transport, and environmental and human health risk
- Member of several National Research Council panels evaluating university research programs investigating the fate of organic and inorganic chemicals in the environment and a member of NSERC's Industrial Partnership Committee.
- Publication of environmental articles and presentations to scientific societies and the public in the areas of:
 - Environmental policy and regulation
 - Environmental Impact Assessment
 - Licensing of Nuclear Facilities
 - Effects of chemicals, trace metals and radionuclides on natural systems
 - Environmental monitoring
 - Environmental management of mining developments
 - Environmental consulting

Specific Project Experience

The following are examples of recent project experience involving working with CNSC and other Canadian regulators in obtaining licenses for disposal and or long term management of

nuclear materials at licensed sites.

Areva Canada Resources inc. (Formerly Cogema Resources Inc.)

- Assistance with the EA and obtaining construction and operational licenses for the McClean Lake uranium mine, mill and tailings disposal facilities. (1998- 2003)
- Assistance with the EA and license applications for the decommissioning of the Cluff Lake uranium mine and mill facility. (2000-2004)
- Co-author for the first EA carried out for the Midwest Project under the auspices of Esso Resources. (1980)

Cameco Corporation

- Assistance with and advice on the EA for the expansion of production at the McArthur mine and the Key lake mill. (2003-2005)
- Assistance with preparation of a number of EA documents and license applications for the Cigar Lake mine (1980- 2004)
- Assistance with environmental due diligence reviews of nuclear fuel fabricators.

Environment Canada

- Coordination of a peer review of the AECL deep repository concept for spent fuel.

Rio Algom

- Assistance with various issues associated with the post decommissioning behaviour of the tailings at Elliott Lake (2001-2003)

Conwest

- Assistance with the preparation of decommissioning plans and assessments for the Dyno and Madawaska mines and implementation of the decommissioning. (1994-2000)

Wismut

- Provision of technical and regulatory advice related to the remediation of 23 former uranium mining and milling sites in the former East Germany. (1992-2003)

Canadian Nuclear Waste Management Office

- Provision of technical advice and review services relating to various options and strategies for the disposal of spent fuel from CANDU reactors. (2002-2004)

CANDU Owners Group

- Preparation and review of a number of reports dealing with a number of environmental assessment and quality issues associated with the modelling and evaluation of significance of releases of radionuclides from reactors.

AECL

- Assistance in the preparation of various supporting documents for the Port Hope Area

Initiative responsible for the cleanup of historical radioactive waste materials. (2001-2005)

- Special advisor on licensing issues associated with the development, operation and closure of the Welcome and Port Granby long term waste management facilities (ongoing)

TRIUMF

- Preparation of a preliminary decommissioning plan for the TRIUMF facility on the UBC campus (2001-2002)

Zircatec

- Preparation of a preliminary decommissioning plan for the Zircatec CANDU fuel fabrication facility in Port Hope Ontario

Canadian Nuclear Society

- Development and presentation of materials on Environmental Assessment and Licensing of Nuclear Reactors. (2007)

International Atomic Energy Agency

- Participation in a number of working groups addressing various aspects of nuclear waste management and assessment of nuclear facilities (1995 – 2006)

Current Position

Dr. Lush is currently self employed supplying specialized environmental and science related services to a number of Canadian and international companies.

Management Experience

Dr. Lush was Chairman of the Board of Directors of Beak international for 15 years.

Dr. Lush was Chairman of the Board of EnviroMetal Technologies Inc. from 1992 to 2004.

Dr. Lush has been Chairman of the Board of Microbial Insights since 1995.

Dr. Lush is currently President of EBPI Inc.

EDUCATION AND PROFESSIONAL MEMBERSHIPS and AWARDS

- Trent University 1968, B.Sc. (Hons) Biology and Chemistry
- University of Waterloo 1970 and 1973, M.Sc., Ph.D., Transport and transformation of Materials in Aquatic Systems
- Best technical paper award at the annual American Nuclear Society meeting.
- American Association for the Advancement of Science.

