

JOEL L. FISHER
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Green Valley, AZ 85614
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Education: Cooper Union for the Advancement of Science and Art – BChE
Majors: chemistry and chemical engineering

Vanderbilt University—MS
Major: water resources Minors: molecular biology, chemistry

University of Pennsylvania—PhD
Major: water resources Minors: physiology, statistics

Experience: 2006 – present: Principal, Joel L Fisher LLC. Owner of a small consulting firm which performs environmental modeling and auditing and statistical analysis of air quality and water quality data for selected clients. Registered for business in Arizona.

1980 – 2006: Environmental Advisor to United States Commissioners, and Senior United States Scientist of the International Joint Commission for the United States and Canada (a treaty organization which regulates and advises on the use of air and water resources associated with the boundary region of both countries). Advised on issues of air pollution, effects of chemicals on animals and humans, mathematical and statistical ecology, and the behavior of border aquatic ecosystems, research associated with these issues, acted as a treaty compliance officer on selected projects of both countries. From 1995 through 2006, I also held the title of Senior United States Scientist of the Commission. **I have retired from this position.**

1991-1993 (contemporaneously with previous position): **Professor of Chemistry at the Cooper Union for the Advancement of Science and Art.** (New York) Taught courses in chemistry and molecular biology at all levels from freshman through graduate student including: accelerated basic chemistry (a one semester accelerated version of elementary college chemistry); physical chemistry; quantum chemistry and chemical physics; inorganic chemistry; biochemistry; cell physiology and microbiology.

Other Work Experience:

1972-1980 Research Physical Sciences Administrator at the United States Environmental Protection Agency – I worked at USEPA since the creation of the agency as a staff research scientist. My accomplishments included participating in the biological surveys of Alaskan rivers along the route of the Alaska pipeline; wrote, edited or coordinated many of the scientific documents associated with the development of the national (US) environmental regulations on power plant pollution from heated waters; worked on problems of groundwater geochemistry and microbiology; one of the five charter Executive Secretaries of the EPA Science Advisory Board.

Pre: 1972 US Department of Interior: research chemical engineer: helped set up the research grant and contract program of the Federal Water Pollution Control Administration when the group split off from the United States Public Health Service; **US Department of Defense: research chemical engineer:** worked on problems of manufacture and environmental disposal of complex chemical munitions.

Other Information:

Language skills French, Czech, Slovak (highly educated levels)

Honorably Discharged Veteran of the Armed Forces of the United States

Married, two children

Selected Publications

1979 (a): Joel Fisher, "An Entropy-Enthalpy Compensation Law Model Analysis of the Thermal Bioassay Curves for Certain Species of Fishes," in: *Cell Associated Water*, W. Drost-Hansen and J. Clegg (eds), Academic Press, p.415-430

1979 (b): Joel Fisher, "A Speculation on the Relationship between Water Structure and the Zoogeographic Distribution of Species in Aquatic Communities," in: *Cell Associated Water*, W. Drost-Hansen and J. Clegg (eds), Academic Press, p.431-440.

1984: Joel Fisher, "Some Thoughts for the Theoretical Basis for Design of a Transboundary Monitoring System," in: *Towards a Transboundary Monitoring System—A Continuing Binational Dialogue, Volume II*, B. Bandurski (ed.), International Joint Commission, Ottawa, Canada., p.539

1990: Joel Fisher, "Thermodynamics and Ecosystem Integrity," in: *An Ecosystem Approach to the Integrity of the Great Lakes in Turbulent Times*, C. Edwards and H. Regier (eds), Great Lakes Fisheries Commission, Special Publication 90-4, p.131

1993: Joel Fisher, "Comparisons and Contrasts in Risk Assessment in the United States and Canada," in: *Proceedings of a Workshop on Risk Assessment Communication and Management in the Great Lakes Basin*, International Joint Commission.

1998: Anne Griffin and Joel Fisher, "Cross-Border Pollution: Stakeholder Status in Canada and the United States and Its Implications for Policy Making," in: *Canada and the Nordic Countries in Times of Reorientation: Culture and Politics*, Jörn Carlsen (ed.), The Nordic Association for Canadian Studies Text Series, Volume 13.

Contributing Author:

International Joint Commission, 1982

First Biennial Report under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin

International Joint Commission, 1984

Second Biennial Report under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin

International Joint Commission, 1986

Third Biennial Report under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin

International Joint Commission, 1989(a)

Fourth Biennial Report under the Great Lakes Water Quality Agreement of 1978 to the Governments of the United States and Canada and the State and Provincial Governments of the Great Lakes Basin

International Joint Commission, 1989(b)

Impacts of a proposed coal mine in the Flathead Basin

International Joint Commission, 1992

Air Pollution in the Detroit-Windsor/Port Huron-Sarnia Region

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International Joint Commission, 1997

Nuclear Task Force: *Inventory of Radionuclides in the Great Lakes*

International Joint Commission, 1998

Ninth Biennial Report under the Great Lakes Water Quality Agreement

International Joint Commission, 1999

Nuclear Task Force: *Report on Bioaccumulation of Elements to Accompany the Inventory of Radionuclides in the Great Lakes Basin*

International Joint Commission, 2000

Tenth Biennial Report under the Great Lakes Water Quality Agreement

International Joint Commission, 2002

Eleventh Biennial Report under the Great Lakes Water Quality Agreement

International Joint Commission, 2004

Twelfth Biennial Report under the Great Lakes Water Quality Agreement