

DAVID V. BATES, M.D.

Dr. David Bates is a physician with fifty years of experience in occupational and environmental medicine, specializing in respiratory disease related to air pollutants. Consultant to the international scientific and regulatory communities on matters of environmental medicine, air pollution, science policy and medical education.

CONSULTING EXPERIENCE

Environmental Health Risk Assessment (Selected recent consulting projects)

- Health aspects of air quality impacts of a proposed gas-fired electrical generating plant in Port Alberni, British Columbia, 2001.
- Health aspects of emissions impacts of an oriented-strand board plant in Dawson Creek, British Columbia, 1996.
- Greater Vancouver and Fraser Valley Air Quality Management Plan Discussion Paper: Issues, Policies and Approaches, 1999.
- Assessment of hazardous air pollutants in the Lower Fraser Valley and the development of emission management options, 1998.
- Economic analysis of air quality improvement in the Lower Fraser Valley of British Columbia, Canada, 1995/6
- Critique of risk assessment of exposure to gasoline vapours in support of B.C. and Canada regulation development, 1995.
- Cost-benefit analysis of the Greater Vancouver Regional District's Air Quality Management Plan, 1993/4.
- Burrard Thermal Generating Plant: Air Quality Issues Overview, for BC Hydro, 1991
- Update of human health effects of emissions from the transportation sector, including NO₂, O₃, VOCs, particulate matter, CO, for Environment Canada, 1990/91.
- Health risk assessment of five orphaned refinery sites in Alberta for the Alberta HELP Program, 1990/92
- Health risk assessment, proposed OSLO oil sands development: mining, extraction and upgrading facilities, for ESSO Resources Canada, 1990.
- The Effects and Social Costs to Human Health of Fossil-Fired Emissions Due to Electrical Exports, for Ontario Hydro, 1989-91
- Stage 1, Greater Vancouver Regional District Air Management Plan. Scientific Advisory Panel and background report, Human Response to Air Pollutants, for GVRD, 1989.
- Initial Assessment of Oxidant Air Pollution in Canada, for Environment Canada, 1983.

Numerous additional consulting and research assignments and undertakings for public and private sector agencies and clients in the areas of effects of air pollutants and development of public policy respecting air quality, environmental medicine and medical education.

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PROFESSIONAL SERVICE and EXPERIENCE (selected)

- Senior Advisor, on-going children's health and air pollution study in Los Angeles, California.
- Senior Advisor to South Coast Air Quality Management District, California Air Resources Board and US EPA Science Advisory Board on air pollution and health-related matters.
- Member, Air Board, International Joint Commission, 1996 -
- Member, Board of Environmental Studies and Toxicology, National Academy of Sciences, U.S.A., 1987-1990; Member, Committee on Environmental Epidemiology.
- Member, Science Advisory Panel, National Urban Air Toxics Research Center (The Leland Center), Houston, Texas, 1992-97
- Chairman, U.S. EPA Science Advisory Board Task Force on Electromagnetic Fields, 1991-2
- Member, Advisory Council of Clean Air Compliance Analysis, Physical Effects Review Subcommittee, Science Advisory Board, U.S. EPA, 1994 - 1997
- Criteria document peer reviewer, US EPA Clean Air Science Advisory Committee (CASAC), 1995-
- Member, Lower Fraser Valley Air Quality Advisory Committee, 1992-
- Member, Science Council of Canada, 1973-1979 (Chairman, Policies & Poisons Committee)
- Chairman, BC Royal Commission on Uranium Mining, 1979-81
- Visiting Professorships: Harvard, North Carolina, Otago, California, Johns Hopkins, Wisconsin, Washington, Dalhousie, Melbourne, McGill

WORK EXPERIENCE

1987 -	Independent Consultant in Occupational and Environmental Medicine
1990- 1995	Senior Consulting Associate, Environmental Health, Concord Environmental/BOVAR Environmental
1972 - 1987	University of British Columbia Professor of Medicine & Physiology; Dean, Faculty of Medicine; Associate Member, Department of Health Care and Epidemiology; Head, Division of Chest Disease, Department of Medicine
1956 - 1972	McGill University Professor of Experimental Medicine; Chairman, Department of Physiology; Associate Dean, Faculty of Medicine
1953 - 1956	Senior Lecturer and First Assistant, St. Bartholomew's Hospital, London
1949 - 1952	Research Fellow, Department of Physiology and Pharmacology, Graduate School of Medicine, University of Pennsylvania

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EDUCATION and HONOURS (selected)

Doctor of Medicine	Cambridge University	1954
M.D., B.Ch.	Cambridge University	1945
Fellow	Royal College of Physicians (Canada)	1965
	Royal College of Physicians (London)	1967
	Royal Society of Canada	1968
	American College of Physicians	1975
Ramazzini Medal		1996
Connaught Award	Canadian Lung Association	1991
Trudeau Gold Medal	American Thoracic Society	1993
C.J. Coady Medal	BC Medical Association	1996

PROFESSIONAL AFFILIATIONS (selected)

- Royal Society of Canada
- Canadian Thoracic Society
- American Association for the Advancement of Science
- Canadian Association for the Club of Rome
- Society for Occupational and Environmental Health

PUBLICATIONS

Three books:

“Respiratory Function in Disease,” third edition, 1989.

“A Citizen’s Guide to Air Pollution,” McGill-Queen’s press, 1972. Second Edition, in press, The David Suzuki Foundation, 2001.

“Environmental Health Risks and Public Policy,” University of Washington Press, 1994.

250 Papers (some selected examples):

Bates, D.V., “Air Pollution in the developed World” In: Environmental & Occupational Disease, edited by John E. Craighead, MD. Universities for Research & Education in Pathology, Inc., 1993. 90 pp. (see pp. 5-15).

Bates, D.V., “The Effects of Photochemical Air Pollution on People,” Chapter: “Tropospheric Ozone: Human Health & Agricultural Impacts,” edited by David J. McKee. Lewis Publishers, Boca Raton, Florida, 1994. 333 pp.

Dimich-Ward, H. and D.V. Bates, “Re-analysis of a longitudinal study of pulmonary function in coal miners in Lorraine, France,” Amer J Indust Med **25**: 613-623, 1994.

Thurston, G.D., K. Ito, C.G. Hayes, D.V. Bates and M. Lippmann, “Respiratory Hospital Admissions and Summaertime Haze Air Pollution in Toronto: Consideration of the Role of Acid Aerosols.” Environ Research **65**: 271-290. 1994.

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- Pope, C.A.III, D.V. Bates & M.F. Raizenne, "Health Effects of Particulate Air Pollution: Time for Reassessment?" *Environ Health Perspect* **103** 472-480, 1995.
- Bates, D.V., "Adverse Health Impacts of Air Pollution - Continuing Problems," Proc. 10th Clean Air Congress, Espoo, Finland, May 28-June 2, 1995.
- Bates, D.V., "The Effects of Air Pollution on Children," *Environ Health Perspect* **104** (Suppl 6): 243-247, 1995.
- Bates, D.V., "Forum: Growth without Pollution," *UBC Reports*, 42, Number 2, page 8, January 25, 1996.
- Bates, D.V., "Adverse health impacts of air pollution - continuing problems," *Scand J Work Environ Health* **21**: 405-411, 1995.
- Bates, D.V., "Editorial: Air pollution: time for more clean air legislation?" *Brit Med J* **312**: 649-650, 1996.
- Bates, D.V., "Chapter 5, Sustaining Clean Air," In: *Urban Solutions to Global Problems*," edited by Patrick J. Smith, H. Peter Oberlander & Tom Hutton, Centre for Human Settlements, University of British Columbia & Institute for Governance Studies, Simon Fraser University, 1996.