

CURRICULUM VITAE

ALAN PHILIP CARLIN

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Education:

Graduate: Massachusetts Institute of Technology, Ph.D.
(economics, with a major in development)

Undergraduate: California Institute of Technology, B.S. with Honor
(physics)

Fellowships: Ford Foundation Foreign Area--at MIT, 1.5 years, and in
India, 1 year

Paid positions: Senior Operations Research Analyst, Office of Policy, Economics, and Innovation, U.S. Environmental Protection Agency, Washington, DC, 1983 to present (with many office name changes in between). Carried out research and published papers exclusively on the economics of global climate change control, 2004-present. Four papers published to date with a new paper on the economic benefits of climate change control currently under development. Managed \$1.5 to \$4 million per year Economic Research Program with most of the leading U.S. academic and non-profit institutions with expertise in environmental economics, 1983-88. Managed numerous research projects involving a total of over \$20 million on the economic benefits of environmental pollution control, the use of stated preference techniques to determine the economic benefits of pollution control, the use and the economic and legal aspects of using economic incentives for environmental pollution control, the economic benefits and costs of the Superfund program, full social cost pricing of energy, comparative individual risks of death, the economic costs of pollution control in the United States, and the relationships between environmental quality, economic development, and government institutions, 1983-present. Principal liaison for the Office of Policy with the Office of Research and Development's National Center for Environmental Research, which resulted in a \$2.5 million yearly joint competition in cooperation with the National Science Foundation for research on Decision-making and Valuation for Environmental Policy (DMVEP), 1994 to 1999. Principal author of the resulting DMVEP Requests for Applications, 1995 to 1999. Developed and currently manage [one of the most extensive economics sites](#) on the World Wide Web, featuring over 2,600 EPA economics reports including [listings for more than 120 reports](#) prepared under projects in most aspects of

environmental economics that I have managed while at EPA, 1995 to present. Served as the EPA representative on the interagency group reviewing natural resource damage assessment regulations for U.S. Government, 1993-5, and authored [EPA's extensive comments thereon, 1994](#). EPA coordinator for 250 page EPA report on the use of economic incentives for environmental protection issued January 2001. Provided CONAMA, the Chilean environmental protection agency, with seminars and consultation on the use of cost-benefit analysis and economic incentives in environmental pollution control at their request, Santiago, Chile, March, 1996.

Senior Operations Research Analyst, Criteria Development and Special Studies Division, Office of Research and Development, U.S. Environmental Protection Agency, Washington, DC--1974-83. Managed EPA extramural program to develop a series of comprehensive, multi-media, multi-disciplinary assessments of the current state of scientific, technical and economic knowledge needed by EPA to regulate particular pollutants or classes of pollutants. Managed multi-million dollar contract with the National Academy of Sciences to produce such assessments as well as other contracts for assessment reports and population risk prepared by other contractors. Provided headquarters coordination for the in-house preparation, review, and publication of Air Quality Criteria and other pollutant assessments by all USEPA Office of Research and Development laboratories. Managed EPA research on the economic benefits of pollution control and the use of economic incentives for pollution control (see [1975-83 listings included at this link](#)). Served as US representative at various OECD and UN Environment Programme environmental and economic meetings.

Director, Implementation Research Division, Office of Research and Development, U.S. Environmental Protection Agency, Washington, DC--1971-74. Built and directed staff of about 25 in carrying out a new \$3 million per year interdisciplinary research program (for some of the output, see [pre-1975 listings for projects funded by the Office of Research and Development](#)) on the implementation and economic policy aspects of environmental protection, including the economic benefits of pollution control, energy-environment trade-offs, economics of regulatory and incentive approaches for implementing environmental pollution control, and the implementation of the National Environmental Policy Act. Staff included PhD physicists, environmental engineers, and biologists, among others. Served as ORD representative on the EPA Energy Policy Committee and as EPA co-coordinator for the interagency Southwest Energy Study. Served as U.S. representative at various OECD meetings dealing with environmental economics. Division produced one of the earliest reports on the potential for US energy conservation, among many other physical and social science research studies.

Economist, Economics Department, The RAND Corporation, Santa Monica, California--1963 to 1971. Carried out policy-oriented economic research,

primarily on economic development, environmental, transportation, and energy problems. Member of advisory groups sent to advise on and evaluate the U.S. Agency for International Development aid programs to India and Turkey, 1965 and 1966.

Consultant to the Administrator of the United Nations Development Programme (Transport Economist), FUNDWI High Level Mission to West Irian-summer 1967. Participated in mission which drew up and evaluated a development plan for Western New Guinea and prepared transportation section of report.

Volunteer positions held:

Member, Editorial Council, *Journal of Environmental Economics and Management*, 2 years.
Chairman, Angeles Chapter, Sierra Club, 1970-71.
Member, Executive Committee, Angeles Chapter, Sierra Club, 3.5 years.
Sierra Club activist, 7 years, including 3 years working on the economic aspects of their successful campaign to prevent the construction of dams in the Grand Canyon.

Principal fields:

Environmental economics research and policy; environmental science; economics and science of global climate change control; development economics; energy economics and science; transportation economics; project evaluation and cost-benefit analysis; research grant administration; World Wide Web site development, database management, and Web publication.

Awards:

EPA bronze medals for the production of the report [Environmental Investments: The Cost of a Clean Environment](#), 1991, for [The United States Experience with Economic Incentives to Control Environmental Pollution](#), 1992, and for participation in the development of the [Environmental Economics Research Strategy](#), 2006. Weldon Heald Conservation Award, the highest conservation award conferred by the Angeles Chapter of the Sierra Club, 1972. It is awarded to a Sierra Club member who has provided long-term and outstanding service to the Angeles Chapter in the field of conservation.

PUBLICATIONS—see homepage

SELECTED RECENT PRESENTATIONS

2008 “Why a New Approach is Required if Global Climate Change Is to Be Controlled Efficiently or Even at All,” William and Mary *Environmental Law and Policy Review* Symposium on *Emission Not Accomplished: The Future of Carbon Emissions in a Changing World*, Williamsburg, VA, February 2.

2006 “Global Climate Control: Is There a Better Strategy than Reducing Greenhouse Gas Emissions?” *University of Pennsylvania Law Review* Symposium on *Responses to Global*

Warming: The Law, Economics, and Science of Climate Change, Philadelphia, PA, November 17.

2003 “The United States Experience with Economic Incentives for Protecting the Environment” at Library of Congress, Washington, DC, January 9.

2002 [“United States Policy on Controlling Pollution from Large Industrial Point Sources with an Emphasis on the Use of Economic Incentives,”](#) at European Commission-sponsored conference on “Prevention and Control of Industrial Pollution: International Conference on Policy Approaches,” Seville, Spain, April 25-6.

TRAVEL to over 60 countries and all seven continents, including many developing countries, both professionally and privately. Residence in India for one year. Participant in missions to Chile, India, Irian Jaya (West Papua), and Turkey.