

RESUME OF: MAUREEN L. CROPPER

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Education: Ph.D., Economics, Cornell University, 1973
M.A., Economics, Cornell University, 1972
B.A., Economics, Summa cum laude, Bryn Mawr College, 1969

Professional Experience:

2007 - Research Associate, National Bureau of Economic Research
1996- , 1987-90 University Fellow, Resources for the Future
1993 - 2006 Lead Economist, Research Department, World Bank
1993 Visiting Professor, Duke University Law School
1990 - 1993 Senior Fellow, Resources for the Future
1992 - Professor of Economics, University of Maryland
1982-1992 Associate Professor, Economics, University of Maryland
1980-1982 Assistant Professor, Economics, University of Maryland
1978-1980 Assistant Professor, Economics, University of Southern California
1973-1978 Assistant Professor, Economics, University of California, Riverside

Fields of Specialization:

Environmental and Natural Resource Economics
Economics of Health and Safety Regulations

PUBLICATIONS:

BOOKS

Valuing Environmental Benefits: The Selected Essays of Maureen Cropper. Cheltenham, UK: Edward Elgar Publishers, 1999.

JOURNALS AND CHAPTERS IN BOOKS

1. "A State Preference Approach to the Precautionary Demand for Money," **American Economic Review** 66 (1976), 388-394.
2. "Regulating Activities with Catastrophic Environmental Effects," **Journal of Environmental Economics and Management** 3 (1976), 1-15.
3. "Health, Investment in Health, and Occupational Choice," **Journal of Political Economy** 85 (1977), 1273-1294.
4. "The Optimal Consumption of a Depletable Natural Resource: An Elaboration, Correction and Extension," (with Milton Weinstein and Richard Zeckhauser) **Quarterly Journal of Economics** 92 (1978), 337-344.
5. "The Optimal Extinction of a Renewable Natural Resource," (with Dwight Lee and S.S. Pannu), **Journal of Environmental Economics and Management** 6 (1979), 341-349.
6. "Inter-city Wage Differentials and the Value of Air Quality," (with A.S. Arriaga-Salinas), **Journal of Urban Economics** 8 (1980), 236-254.
7. "Pollution Aspects of Nuclear Energy Use," **Journal of Environmental Economics and Management** 7 (1980), 334-352.
8. "Measuring Benefits from Reduced Morbidity," **American Economic Review Proceedings** 71 (1981), 235-240.
9. "The Value of Urban Amenities," **Journal of Regional Science** 21 (1981), 359-374.
10. "Economic Incentives for Pollution Control," in **Lecture Notes, American Mathematical Society Short Course on Environmental and Natural Resource Mathematics**, American Mathematical Society, Providence, R.I., 1985.
11. "A Note on the Extinction of Renewable Resources," **Journal of Environmental Economics and Management** 15 (1988), 64-70.
12. "Families and the Economics of Risks to Life," (with Frances G. Sussman), **American Economic Review** 78 (1988), 255-260.

13. "On the Choice of Functional Form for Hedonic Price Functions," (with Leland B. Deck and Kenneth E. McConnell), **Review of Economics and Statistics** 70 (1988), 668-675.
14. "Valuing Future Risks to Life," (with Frances G. Sussman), **Journal of Environmental Economics and Management**, 19 (1990), 160-174.
15. "Discounting and the Evaluation of Life-Saving Programs," (with Paul R. Portney), **Journal of Risk and Uncertainty**, 3 (1990), 369-380.
16. "Wasteful Commuting: A Re-examination," (with Patrice L. Gordon), **Journal of Urban Economics**, 29 (1991), 2-13.
17. "Valuing Environmental Health Effects," (with A.M. Freeman III) in John Braden and Charles Kolstad (eds.) **Measuring the Demand for Environmental Commodities**. Amsterdam: North-Holland, 1991.
18. "Discounting Human Lives," (with Sema K. Aydede and Paul R. Portney), **American Journal of Agricultural Economics**, 73 (1991), 1410-1415.
19. "The Determinants of Pesticide Regulation: A Statistical Analysis of EPA Decisionmaking," (with William N. Evans, Stephen J. Berardi, Maria M. Ducla-Soares and Paul R. Portney), **Journal of Political Economy**, 100 (1992), 175-198.
20. "The Effect of Information on Health Risk Valuations," (with Alan J. Krupnick), **Journal of Risk and Uncertainty**, 5 (1992), 29-48.
21. "Rates of Time Preference for Saving Lives" (with Sema K. Aydede and Paul R. Portney), **American Economic Review Proceedings** 82 (1992), 469-472.
22. "Environmental Economics: A Survey," (with Wallace E. Oates), **Journal of Economic Literature**, 30 (1992), 675-740.
23. "Pesticide Regulation and the Rule-making Process," (with William N. Evans, Stephen J. Berardi, Maria M. Ducla-Soares and Paul R. Portney), **Northeastern Journal of Agricultural and Resource Economics**, 21 (1992), 77- 82.
24. "The Estimation of Consumer Preferences for Attributes: A Comparison of Hedonic and Discrete Choice Approaches" (with Leland Deck, Nalin Kishor, and Ted McConnell), **Review of Economics and Statistics** 75 (1993), 225-232.
25. "Preferences for Life-Saving Programs: How the Public Discounts Time and Age," (with Sema K. Aydede and Paul R. Portney), **Journal of Risk and Uncertainty** 8 (1994), 243-265.
26. "The Interaction of Population Growth and Environmental Quality," (with Charles Griffiths), **American Economic Review Proceedings** 84 (1994), 250-254.
27. "Economic and Health Consequences of Pesticide Use in Developing Country Agriculture: Discussion," **American Journal of Agricultural Economics** 76 (1994), 605-607.

28. "Do Benefits and Costs Matter in Environmental Regulation? An Analysis of EPA Decisions Under Superfund" (with Shreekant Gupta and George L. Van Houtven), in R. Revesz and R. Stewart (eds.) **Reauthorizing Superfund: Theoretical and Empirical Issues**. Baltimore: Johns Hopkins University Press for Resources for the Future, 1995.
29. "Discussion: Valuing Food Safety: Which Approaches to Use?" in Julie Caswell (ed.) **Valuing Food Safety and Nutrition**. Boulder, CO: Westview Press, 1995.
30. "What is the Value of Reduced Morbidity in Taiwan?" (with A. Alberini, Tsu-Tan Fu, A. Krupnick, Jin-Tan Liu, Daigee Shaw and Winston Harrington) in R. Mendelsohn and D. Shaw (eds.) **The Economics of Pollution Control in the Asian Pacific**. London: Edward Elgar Publishers, 1996.
31. "Comment on "Estimating the Demand for Public Goods: The Collective Choice and Contingent Valuation Approaches," in D. Bjornstad and J. Kahn (eds.) **Using Contingent Valuation to Measure Non-Market Values**. London: Edward Elgar Publishers, 1996.
32. "Benefit-Cost Analysis in Environmental Health and Safety Regulation: A Statement of Principles." (with K.J. Arrow, G.C. Eads, R.W. Hahn, L.B. Lave, R.G. Noll, P.R. Portney, M. Russell, R. Schmalensee, V.K. Smith and R. N. Stavins) AEI Press, 1996.
33. "Is There A Role for Benefit-Cost Analysis in Environmental, Health and Safety Regulation?" (with K.J. Arrow, G.C. Eads, R.W. Hahn, L.B. Lave, R.G. Noll, P.R. Portney, M. Russell, R. Schmalensee, V.K. Smith and R. N. Stavins), **Science** 272 (1996), 221-222.
34. "When is a Life Too Costly to Save? The Evidence from U.S. Environmental Regulations" (with George L. Van Houtven), **Journal of Environmental Economics and Management** 30 (1996), 348-68.
35. "Paying for Permanence: An Economic Analysis of EPA's Cleanup Decisions at Superfund Sites," (with Shreekant Gupta and George Van Houtven), **The RAND Journal of Economics** 27 (1996), 563-82.
36. "The Health Benefits of Air Pollution Control in Delhi" (with Nathalie Simon, Anna Alberini, Seema Arora and P.K. Sharma), **American Journal of Agricultural Economics** 79 (1997), 1625-1629.
37. "Valuing Health Effects of Air Pollution in Developing Countries: The Case of Taiwan,:" (with Anna Alberini, Tsu-Tan Fu, Alan Krupnick, Jin-Tan Liu, Daigee Shaw and Winston Harrington), **Journal of Environmental Economics and Management** 34 (1997), 107-126.
38. "Contingent Valuation," (with Anna Alberini) in **The New Palgrave Dictionary of Economics and the Law**, Peter Newman (ed.). London: Macmillan, 1998.
39. "Roads, Population Pressures and Deforestation in Thailand, 1976-1989," (with C. Griffiths and M. Mani), **Land Economics**, 75 (1999), 58-73.

40. "Environmental Federalism: Welfare Losses from Uniform National Drinking Water Standards," (with Terry M. Dinan and Paul R. Portney), in **Environmental and Public Economics: Essays in Honor of Wallace E. Oates**, Arvind Panagariya, Paul Portney, and Robert M. Schwab eds., Cheltenham, UK: Edward Elgar Publishing Company, 1999.
41. "The Implications of Hyperbolic Discounting for Project Evaluation," (with David Laibson) in **Discounting Intergenerational Equity**. Paul R. Portney and John Weyant (eds.) Washington, DC: Resources for the Future, 1999.
42. "Has Economic Research Answered the Needs of Environmental Policy?" **Journal of Environmental Economics and Management**, 39 (2000), 328-350.
43. "Public Choices Between Life-Saving Programs: The Tradeoff Between Qualitative Factors and Lives Saved"(with Uma Subramanian), **Journal of Risk and Uncertainty**, 21(1):117-149, July 2000.
44. "Sulfur Dioxide Control by Electric Utilities: What Are the Gains from Trade?" (with Curtis Carlson, Dallas Burtraw, and Karen Palmer), **Journal of Political Economy**, 108 (2000), 1292-1317.
45. "Predicting the Location of Deforestation in North Thailand: The Role of Roads and Protected Areas," (with Jyotsna Puri and Charles Griffiths), **Land Economics**, 77(2):172-186, May 2001.
46. "Age, Health and the Willingness to Pay for Mortality Risk Reductions: A Contingent Valuation Survey of Ontario Residents (with Alan Krupnick, Anna Alberini, Nathalie Simon, Bernie O'Brien, Ron Goeree and Martin Heintzelman), **Journal of Risk and Uncertainty**, 24(2):161-186, March 2002.
47. **Estimating the Public Health Benefits of Air Pollution Regulations** (co-author), National Research Council, 2002.
48. "The Demand for a Malaria Vaccine: Evidence from Ethiopia," (with Mitiku Haile, Julian Lampietti, Christine Poulos and Dale Whittington), **Journal of Development Economics**, 75(1):303-318, October 2004.
49. "Does the Value of a Statistical Life Vary with Age and Health Status? Evidence from the U.S. and Canada," (with Alan Krupnick, Anna Alberini and Nathalie Simon), **Journal of Environmental Economics and Management**, 48(1): 769-792, July 2004.
50. "Better Evaluation of Life-Saving Environmental Regulations," in **New Approaches on Energy and the Environment: Policy Advice for the President**. Richard D. Morgenstern and Paul R. Portney (eds.) Washington, DC: Resources for the Future, 2004.
51. "Traffic Fatalities and Economic Growth," (with Elizabeth Kopits), **Accident Analysis and Prevention**, 37(1):169-178, January 2005.

52. “The Impact of Urban Spatial Structure on Travel Demand in the United States,” (with Antonio Bento, Ahmed Mobarak and Katja Vinha), **The Review of Economics and Statistics**, 87(3): 466-478, August 2005.
53. **Environmental Health and Traditional Fuel use in Guatemala** (with K. Ahmed, Y. Awe, D. Barnes and M. Kojima). Washington, DC: World Bank, 2005.
54. “The Demand for Insecticide-Treated Mosquito Nets” (with C. Poulos, J. Lampietti, D. Whittington and M. Haile) in the **Handbook of Contingent Valuation**, J. Kahn and A. Alberini (eds.), pp. 324-339. Edward Elgar, 2006.
55. “Willingness to Pay for Mortality Risk Reductions: Does Latency Matter?” (with Anna Alberini, Alan Krupnick and Nathalie Simon), **Journal of Risk and Uncertainty**, 32(3): 231-245, May 2006.
56. “The Value of Mortality Risk Reductions in Delhi, India,” (with Soma Bhattacharya and Anna Alberini), **Journal of Risk and Uncertainty**, 34(1): 21-47, February 2007.
57. “The Impact of Policies to Control Motor Vehicle Emissions in Mumbai, India,” (with Akie Takeuchi and Antonio Bento), **Journal of Regional Science**, 47(1): 27-46, February 2007.
58. “Why Have Traffic Fatalities Declined in Industrialized Countries? Implications for Pedestrians and Vehicle Occupants,” (with Elizabeth Kopits), **Journal of Transport Economics and Policy**, 42(1):129-154, January 2008.
59. “The Welfare Effects of Slum Improvement Programs: The Case of Mumbai” (with Akie Takeuchi and Antonio Bento), **Journal of Urban Economics**, 64(1), 65-84, July 2008.
60. “Global Environmental Sustainability—Protecting the Commons,” Chapter 7 of the **Global Monitoring Report 2008**, Washington, DC: World Bank, April 2008.
61. “A Cross-Country Comparison of Decentralization and Environmental Protection: Commentary” in *Fiscal Decentralization and Land Policies*, G. Ingram and Y. Hong (eds.). Cambridge, MA: Lincoln Institute of Land Development (2008).
62. “What Are the Health Effects of Air Pollution in China? in *Proceedings of the International Economic Association Conference on Environmental Economics*, Beijing, China, G.M. Heal and M. Aoki (eds.). London:Palgrave-Macmillan, forthcoming, 2008.

WORKING PAPERS

1. “Improving Air Quality in Metropolitan Mexico City: An Economic Valuation,” (with co-authors), Policy Research Working Paper 2785, February 2002.

2. "The Impact of Urban Spatial Structure on Travel Demand in the United States," (with Antonio Bento, Ahmed Mobarak and Katja Vinha), Policy Research Working Paper 3007, March 2003.
3. "Traffic Fatalities and Economic Growth," (with Elizabeth Kopits), Policy Research Working Paper 3035, April 2003.
4. "Willingness to Pay for Mortality Risk Reductions: Does Latency Matter?" (with Anna Alberini, Alan Krupnick, and Nathalie Simon), USEPA National Center for Environmental Economics Working Paper 2004-01.
5. "The Political Economy of Health Services Provision and Access in Brazil" (with Ahmed Mobarak and Andrew Rajkumar), Policy Research Working Paper 3508, February 2005.
6. "Why Have Traffic Fatalities Declined in Industrialized Countries? Implications for Pedestrians and Vehicle Occupants" (with Elizabeth Kopits), Policy Research Working Paper 3678, August 2005.
7. "Urban Poverty and Transport: The Case of Mumbai" (with Judy Baker, Rakhi Basu, Somik Lall and Akie Takeuchi), Policy Research Working Paper 3693, September 2005.
8. "The Welfare Effects of Slum Improvement Programs: The Case of Mumbai" (with Akie Takeuchi and Antonio Bento), Policy Research Working Paper 3852, February 2006.
9. "The Value of Mortality Risk Reductions in Delhi, India," (with Soma Bhattacharya and Anna Alberini), Policy Research Working Paper 3995, August 2006.
10. "The Impact of Policies to Control Motor Vehicle Emissions in Mumbai, India," (with Akie Takeuchi and Antonio Bento), Policy Research Working Paper 4059, November 2006.
11. "Public Transport Subsidies and Affordability in Mumbai, India," (with Soma Bhattacharya), Policy Research Work Paper 4395, November 2007.

HONORS AND AWARDS

Member, National Academy of Sciences, 2008.

Fellow, Association of Environmental and Resource Economists, 2006.

1. World Bank Research Advisory Committee awards:

"Valuing Improvements in Road Safety: A Case Study of Delhi, India," 2004-2006

"Urban Transport and the Welfare of the Poor," 2002-2004

"Understanding and Measuring Motorization Externalities," 2001-2002

"Poverty, Decentralization and the Provision of Local Public Goods," 2000-01

"Factors affecting the Pace of Deforestation in Northern Thailand," 1998-99

"A New Approach to Valuing Mortality Risk Reductions," 1997-98

- “Spatial Models of Environmental Processes: A Study of Deforestation in Thailand”
1996-98
- “Valuing Mortality Reductions in India: A Study of Compensating Wage Differentials”
1996-97
- “Measuring the Health Effects of Air Pollution in Developing Countries: The Case of
Delhi,” 1995-96
- “Pollution Control by Electric Utilities,” 1995-96
- “Population Growth and the Environment,” 1993-94
2. NASA Grant “Case Studies and Diagnostic Models of Inter-Annual Dynamics of
Deforestation in South-East Asia,” 1999-2001
 3. U.S. Environmental Protection Agency Cooperative Agreement "Public Preferences
for Life-Saving Programs," 1991-93. (Principal Investigator).
 4. U.S. Environmental Protection Agency Cooperative Agreement "Regulating
Environmental Health Risks: an Analysis of EPA Decisionmaking," 1991-93
(Principal Investigator).
 5. U.S. Environmental Protection Agency Cooperative Agreement "Valuing Chronic
Morbidity Damages," 1987-89 (Co-Principal Investigator).
 6. Gilbert F. White Fellowship, Resources for the Future, 1986-87.
 7. U.S. Environmental Protection Agency Cooperative Agreement, "The Use of Time
Allocation Information in Exposure Estimation and Economic Benefits Analysis,"
1983-85 (Principal Investigator).
 8. University of Maryland, Semester Research Grant, "Valuing Risks to Life," 1982.
 9. National Science Foundation Grant, "Valuing the Health Effects of Air Pollution,"
1980-81 (Principal Investigator).

OTHER PROFESSIONAL ACTIVITIES

President, Association of Environmental and Resource Economists, 1995-6

Chair, Arsenic Rule Benefits Review Panel, USEPA Science Advisory Board, 2001.

Chair, Advisory Council on Clean Air Compliance Analysis, USEPA Science Advisory Board,
1997-2000; Member, 1994-2002.

Chair, Environmental Economics Advisory Committee, USEPA Science Advisory Board, 2002-
2006; Member, 1997-2000, 2006-2006

Vice-Chair, NAS-NRC Panel on the Social Cost of Energy, 2008-2009.

Member, Committee on the Status of Women in the Economics Profession (CSWEP), 1995-97

Treasurer, Association of Environmental and Resource Economists, 1989-93

Associate Editor, **Journal of Environmental Economics and Management**, 1991
Journal of Economic Perspectives, 1999-2001, 2002-2004
Resource and Energy Economics, 1998-

Editorial Board, **Journal of Environmental Economics and Management**,
1989-1990, 1993-95
Environment and Development Economics, 2001-2007
World Bank Economic Review, 2006-
World Bank Research Observer, 2007-2008
Review of Environmental Economics and Policy, 2006-
Annual Review of Resource Economics, 2007-

Member, Advisory Board:

Center for Risk Analysis, Harvard University, 1998-2001
Donald Bren School of the Environment, UC Santa Barbara, 1998-2003
AEI-Brookings Center on Regulation, 1998-
Resources for the Future, 2003-2008
Harvard Environmental Economics Program, 2008-