

## ARUN S. MALIK

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### Education

The Johns Hopkins University, Baltimore, Maryland  
Ph.D. received November 1984

Bowdoin College, Brunswick, Maine  
B.A. received May 1978 (summa cum laude)

### Fields of Specialization

Environmental and resource economics, public economics, applied microeconomic theory

### Professional Experience

Associate Professor. Department of Economics and School of Public Policy and Public Administration, George Washington University (8/92 to present).

Visiting Professor. Delhi School of Economics, New Delhi, India (March 2004).

Visiting Scholar. Economic Research Service, USDA, and Senior Research Associate, Department of Agricultural Economics, Cornell University (7/90 to 7/92).

Research Associate. Bureau of Business and Economic Research, University of Maryland at College Park (1/85 to 5/85, 6/86 to 6/90).

Consultant. ICF Incorporated, Washington, DC. (7/85 to 5/86; 6/87 to 8/87; 6/89 to 9/89).

### Teaching Experience

George Washington University. Graduate and undergraduate courses in environmental and resource economics and undergraduate-level courses in microeconomics. Recipient of the University-wide Trachtenberg Teaching Award, 2002.

University of Maryland. Intermediate-level courses in microeconomics and statistics (1986 to 1990). Received Department of Economics Teaching Award, Spring 1990.

### Journal Articles

"Not Getting Burned: The Importance of Fire Prevention in Forest Management," with Gregory Amacher and Robert Haight, *Land Economics*, forthcoming.

"Further Results on Permit Markets with Market Power and Cheating," *Journal of Environmental Economics and Management*, Vol. 44, No. pp. 371-390 (2002).

"Pollution Taxes when Firms Choose Technologies" with Gregory Amacher, *Southern Journal of Economics*, Vol. 68, No. 4, pp. 891-906 (2002).

"Instrument Choice when Firms and Regulators Bargain," with Gregory Amacher, *Journal of Environmental Economics and Management*, vol. 35, pp. 221-234 (1998).

"Bargaining in Environmental Regulation and the Ideal Regulator," with Gregory Amacher, *Journal of Environmental Economics and Management*, vol. 30, pp. 233-253 (1996).

"Feasibility of Point/Nonpoint Source Trading for Managing Agricultural Pollutant Loadings to Coastal Waters," with David Letson and Stephen Crutchfield, *Water Resources Research*, vol. 30, October 1994, pp. 2825-36.

"Economic Incentives for Agricultural Nonpoint Source Pollution Control," with Bruce Larson and Marc Ribaud, *Water Resources Bulletin*, vol. 30, no. 3, pp. 471-480 (1994).

"Point/Nonpoint Source Trading of Pollution Abatement: Choosing the Right Trading Ratio," with David Letson and Stephen Crutchfield, *American Journal of Agricultural Economics*, vol. 75, pp. 959-967 (1993). [Reprinted in *Agro-Environmental Policy*, S. Batie and R. Horan, eds., Ashgate, forthcoming.]

"Self-Reporting and the Design of Policies for Regulating Stochastic Pollution," *Journal of Environmental Economics and Management*, vol. 24, pp. 241-257 (1993). [Reprinted in *The Economics of Environmental Monitoring and Enforcement*, C. Russell, ed., Ashgate, 2003.]

"Enforcement Costs and the Choice of Policy Instruments for Controlling Pollution," *Economic Inquiry*, vol. 30, pp. 714-721 (1992). [Reprinted in *The Economics of Environmental Monitoring and Enforcement*, C. Russell, ed., Ashgate, 2003.]

"The Economics of Tax Amnesties," with Robert Schwab, *Journal of Public Economics*, vol. 46, pp. 29-49 (1991).

"Permanent versus Interim Regulations: A Game-Theoretic Analysis," *Journal of Environmental Economics and Management*, vol. 21, pp. 127-139 (1991).

"Optimal Investments to Establish Property Rights in Land," with Robert Schwab, *Journal of Urban Economics*, vol. 29, pp. 295-309 (1991).

"Avoidance, Screening and Optimum Enforcement," *Rand Journal of Economics*, vol. 21, pp. 341-353 (1990). [Reprinted in *The Economics of Corruption and Illegal Markets*, G. Fiorentini and S. Zamagni, eds., Edward Elgar, 1999.]

### **Journal Articles (cont.)**

"Markets for Pollution Control when Firms are Noncompliant," *Journal of Environmental Economics and Management*, vol. 18, pp. 97-106 (1990).

### **Manuscripts Submitted and in Preparation**

"Burning Questions: Forests, Fires, and the Value of Information," with Gregory Amacher and Robert Haight (submitted)

"Optimal Environmental Regulation and Enforcement with More Than Just Emissions" (under revision for resubmission)

"Reducing the Social Costs of Forest Fires," with Gregory Amacher and Robert Haight (submitted)

"Price and Quantity Regulation with Discrete Technologies," with Gregory Amacher

"Permit Life in the Design of Marketable Pollution Permit Programs," with Gregory Amacher

### **Book Chapters, Reports, and Selected Other Publications**

"An Assessment of Selected Policies for Controlling Stationary and Point Source Pollution in Latvia," with Arnolds Ubelis and Valdis Seglins, Harvard Institute for International Development Environmental Discussion Paper No. 23, July 1997.

"Point/Nonpoint Source Trading for Controlling Pollutant Loadings to Coastal Watersheds: A Feasibility Study," with David Letson and Stephen Crutchfield in *Theory, Modeling and Experience in the Management of Nonpoint Source Pollution*, edited by C. Russell and J. Shogren, Kluwer Academic Publishers, 1993.

"Optimal Cost-Sharing Programs to Reduce Agricultural Pollution," with Robbin Shoemaker, USDA/ERS/RTD Technical Bulletin No. 1820, June 1993.

"Agricultural Nonpoint Source Pollution and Economic Incentive Policies: Issues in the Reauthorization of the Clean Water Act," with Bruce Larson and Marc Ribaud, U.S. Department of Agriculture, Staff Report No. AGES 9229, November 1992.

"Are Economic Incentives Appropriate for Controlling Point Sources of Toxic Water Pollution?" in J. Cumberland, ed., *Proceedings of the Fifth Annual Conference on the Economics of Chesapeake Bay Management, BBER*, University of Maryland, College Park, MD, September 1989.

*Use of Models for Water Resources Management, Planning, and Policy*, contributing author, Office of Technology Assessment, Government Printing Office, Washington, D.C., August 1982.

"Activities Requiring Corps of Engineers Permits: Econometric Modeling and Forecasting," with D. Engberg, J. Wood and J. Boland, report submitted to the Institute for Water Resources, Army Corps of Engineers, April 1982.

### **Selected Paper Presentations**

"Price and Quantity Regulation with Discrete Technologies," with Gregory Amacher, Delhi School of Economics, New Delhi, India, March 2004.

"The Value of Information under Risk of Fire: Implications for Government Budgeting and Policy Targeting," with Gregory Amacher, presented at the Second World Congress of Environmental and Resource Economists, Monterey, California, June 2002.

"Choice of Policy Instruments when Firms and Regulators Engage in Bargaining," presented at the First World Congress of Environmental and Resource Economists, Venice, Italy, June 1998.

"Taxes vs. Standards when Technology Choice is Endogenous," with Gregory Amacher, presented at the Eighth Annual Conference of the European Association of Environmental and Resource Economists, Tilburg, Holland, July 1997.

"Bargaining in Environmental Regulation and the Ideal Regulator," with Gregory Amacher, presented at the Western Economic Association Meetings, Vancouver, July 1994.

"Point/Nonpoint Source Trading of Pollution Abatement: Choosing the Right Trading Ratio," with David Letson and Stephen Crutchfield, presented at a joint session of the Association of Environmental and Resource Economists and the American Agricultural Economics Association, Baltimore, August 1992.

"Point/Nonpoint Source Trading for Controlling Pollutant Loadings to Coastal Watersheds: A Feasibility Study," with David Letson and Stephen Crutchfield, presented at the Association of Environmental and Resource Economists' Workshop on the Management of Nonpoint-Source Pollution, University of Kentucky, Lexington, June 1991.

"Regulatory Policy Games with Fixed Compliance Inputs," presented at the Allied Social Sciences Association Meetings, Atlanta, December 1989.

"The Economics of Tax Amnesties," with Robert Schwab, presented at the Allied Social Sciences Association Meetings, New York, December 1988.

"Markets for Pollution Control when Firms are Noncompliant," invited paper presented at the Association of Environmental and Resource Economists' Workshop on Monitoring and Enforcement, University of Delaware, Newark, August 1987.

"Optimal Investments to Establish Property Rights in Land," with Robert Schwab, presented at the Allied Social Sciences Association Meetings, New Orleans, Louisiana, December 1986.

### **Research Grants**

Contract with U.S. Forest Service, "Decision Models for Wildfire Prevention Programs," \$44,000, 2003-2005.

Contract with U.S. Forest Service, "Assessing and Estimating the Value of Information under Risk of Fire: Implications for Government Budgeting and Management," \$25,000, 2002-03.

Cooperative Agreement with Economic Research Service, USDA, "Water Quality and Agricultural Policies," \$20,000, 1993-94.

### **Affiliations**

American Economic Association  
Association of Environmental and Resource Economists

### **Professional Activities**

Co-Editor, *Journal of Environmental Economics and Management*, (February 2005- )

Member, Editorial Council, *Journal of Environmental Economics and Management*, (December 1995-February 2005).

Referee for:

*Journal of Environmental Economics and Management*  
*Journal of Public Economics*  
*American Economic Review*  
*American Journal of Agricultural Economics*  
*Rand Journal of Economics*  
*Journal of Law, Economics and Organization*  
*International Review of Law and Economics*  
*Water Resources Research*  
*Policy Studies Journal*  
*Journal of Law and Economics*  
*Journal of Policy Analysis and Management*  
*Journal of Policy Studies*  
McGraw-Hill, Inc.  
Kluwer Academic Publishers

Reviewer, National Science Foundation and US Environmental Protection Agency

### **Other Professional Activities**

Consultant to:

US Department of Energy  
Center for Naval Analyses  
Harvard Institute for International Development  
US Department of State  
US Environmental Protection Agency  
US Army Corps of Engineers  
Office of Technology Assessment

### **Languages**

Spanish (very good); French (good); Hindi (fair); German (reading knowledge)

### **Personal**

Born April 6, 1957 in Tokyo, Japan. Married with two children. U.S. citizen. Have lived and traveled in Asia, Africa and South America.