

COLLEGE OF BUSINESS STANDARD VITAE

October 2009

NAME Edward B. Barbier

ADDRESS

Department of Economics and Finance
University of Wyoming
Department 3985 · 123 Ross Hall
1000 E. University Avenue
Laramie, WY 82071
USA

PHONE

work: +1 (307) 766-2358
fax: +1 (307) 766-5090
email: ebarbier@uwyo.edu

EDUCATION

1986	Ph.D. Economics, Birkbeck College, University of London, London, England
1980	M.Sc. Economics, The London School of Economics and Political Science, London, England
1979	B.A. Economics and Political Science, <i>cum laude</i> , Yale College, Yale University, New Haven, Connecticut

ACADEMIC POSITIONS

2000	John S. Bugas Professor of Economics, Department of Economics and Finance, University of Wyoming
1995-2000	Reader, Environment Department, University of York, United Kingdom
1993-1995	Senior Lecturer, Department of Environmental Economics and Environmental Management, University of York, United Kingdom
1990-1993	Director, London Environmental Economics Centre (LEEC) of the International Institute for Environment and Development (IIED) and University College, London
1988-1990	Associate Director, London Environmental Economics Centre, London
1986-1988	Economist, International Institute for Environment and Development, London
1982-1986	Economics Lecturer, part-time, M.E.I.S. Department, Polytechnic of the Southbank, London
1984-1985	Visiting Economics Lecturer, Webster University, Geneva
1981-1984	Economics Lecturer, part-time, School of Social Sciences & Business Studies, Polytechnic of Central London, London

BUSINESS EXPERIENCE /CONSULTANCIES (Since 1993)

“A Global Green New Deal”, Report prepared for the Governing Council of the United Nations Environment Programme (UNEP) on behalf of the Green Economy Initiative and the Division of Technology, Industry and Economics, UNEP, 2008-2009.

Consultant, BioEcon Project, Environment Department, University of York, UK, 2002-2003.

Peer Reviewer, Mexico Environmental Degradation and Poverty Study, The World Bank, 2001-2002.

Background Document on Trade and Environment to Support Substantive Discussion at the Second Session of the UN International Forum on Forests, 1998.

Background Report, Priority Setting for Biodiversity Conservation, Environment Directorate, Organization for Economic Cooperation and Development (OECD), Paris, 1994.

Resource Degradation and Poverty in Latin America, Consultancy for the Agricultural Department, Latin America Region, The World Bank, 1995-6.

Consultant, The Project on Environment, Population and Scarcity, American Association for the Advancement of Science, Washington DC and the University of Toronto, 1994-6.

Consultancy Book, *Paradise Lost? The Ecological Economics of Biodiversity*, Biodiversity Programme, Beijer Institute, Royal Swedish Academy of Sciences, 1993-4.

Background Report, Forests and Sustainable Development Policies, Section III Forestry Issues and Economic Development, Policy Analysis Division, FAO, 1993-4.

Resource Person, Financial and Economic Analysis of GEPRENAF Project, Burkina Faso, Côte d'Ivoire and Mali, Investment Centre, FAO, 1993-4.

CURRENT JOB DESCRIPTION

45% Teaching

50% Research

5% Service

0% Administration

TEACHING

Present Class (Spring 2009)

ECON 5410 Seminar: Advanced Resource and Environmental Economics

Previous Classes

ECON 5410 Seminar: Advanced Resource and Environmental Economics

ECON 4720 International Trade

ECON 4410 Natural Resource Economics

ECON 4400 Environmental Economics

ECON 2400 Economics of the Environment

ECON 5370 Seminar: Advanced Economic Development

PUBLICATIONS

Books:

Barbier, E.B. *A Global Green New Deal: Rethinking the Economic Recovery*. Cambridge University Press (in press).

Hanley, N. and Barbier, E.B. 2009. *Pricing Nature: Cost-Benefit Analysis and Environmental Policy-Making*. Edward Elgar, London, 360 pp.

Barbier, E.B. 2005. *Natural Resources and Economic Development*, Cambridge University Press, 410 pp.

Heal, G.M., Barbier, E.B., Boyle, K.J., Covich, A.P., Gloss, S.P., Hershner, C.H., Hoehn, J.P., Pringle, C.M., Polasky, S., Segerson, K. and Shrader-Frechette, K. 2005. *Valuing Ecosystem Services: Toward Better Environmental Decision-Making*, The National Academies Press, Washington, D.C, 277 pp.

Barbier, E.B. and S. Sathirathai (ed.), 2004, *Shrimp Farming and Mangrove Loss in Thailand*. Edward Elgar Publishing, London, 278 pp.

Barbier, E.B. and Pearce, D.W., 2000, *Blueprint for a Sustainable Economy*. Earthscan, London, 272 pp.

Barbier, E.B. 1999, *The Economics of Land Degradation and Rural Poverty Linkages in Africa*. UNU/INRA Annual Lectures on Natural Resource Conservation and Management in Africa, November 1998. United Nations University Press, Tokyo, 132 pp.

Barbier, E.B., 1998, *The Economics of Environment and Development: Selected Essays*. Edward Elgar, London, 540 pp.

Barbier, E.B., Acreman, M. and Knowler, D., 1997, *Economic Valuation of Wetlands: A Guide for Policymakers*. Ramsar Convention Bureau, Geneva, 127 pp.

Barbier, E.B., Burgess, J.C. and Folke, C., 1994, *Paradise Lost? The Ecological Economics of Biodiversity*. Earthscan Publications, London, 267 pp.

Barbier, E.B., Burgess, J.C., Bishop, J.T. and Aylward, B.A., 1994, *The Economics of the Tropical Timber Trade*. Earthscan Publications, London, 179 pp.

Barbier, E.B. (ed.), 1993, *Economics and Ecology: New Frontiers and Sustainable Development*. Chapman and Hall, London, 205 pp.

Swanson, T.M. and Barbier, E.B. (eds.), 1992, *Economics for the Wilds: Wildlife, Wildlands, Diversity and Development*. Earthscan Publications, London, 226 pp.

Barbier, E.B., Burgess, J.C., Swanson, T.M. and Pearce, D.W., 1990, *Elephants, Economics and Ivory*. Earthscan Publications, London, 154 pp.

Conway, G.R. and Barbier, E.B., 1990, *After the Green Revolution: Sustainable Agriculture for Development*. Earthscan Publications, London, 205 pp.

Pearce, D.W., Barbier, E.B. and Markandya, A., 1990, *Sustainable Development: Environmental Economics in the Third World*. Edward Elgar, London, 217 pp.

Pearce, D.W., Markandya, A. and Barbier, E.B., 1989, *Blueprint for a Green Economy*. Earthscan Publications, London, 192 pp.

Barbier, E.B., 1989, *Economics, Natural Resource Scarcity and Development: Conventional and Alternative Views*. Earthscan Publications, London, 223 pp.

Refereed Journal Articles:

Rauscher, M. and E.B. Barbier. "Biodiversity and Geography." *Resource and Energy Economics* (accepted).

Granek, E.F., Polasky, S., Kappel, C.V., Reed, D.J., Stoms, D.M., Koch, E.W., Kennedy, C.J., Cramer, L.A., Hacker, S.D., Barbier, E.B., Aswani, S., Ruckelshaus, M., Perillo, G.M., Silliman, B.R., Muthiga, N., Bael, D., and Wolanski, E. "Ecosystem Services as a Common Language for Coastal Ecosystem-Based Management." *Conservation Biology* (in press).

Barbier, E.B., Burgess, J.C. and Grainger, A. "The Forest Transition: Towards a More Comprehensive Theoretical Framework" *Land Use Policy* (in press).

Barbier, E.B. "Ecosystems as Natural Assets." *Foundations and Trends in Microeconomics* 4(8) (in press).

Hanley, N., Tinch, D., Angelopoulos, K., Davies, A., Barbier, E.B. and Watson, F. 2009. "What Drives Long-Run Biodiversity Change? New Insights from Combining Economics, Paleoecology and Environmental History." *Journal of Environmental Economics and Management* 57(1):5-20.

Koch, Evamaria W., Edward B. Barbier, Brian R. Silliman, Denise J. Reed, Gerardo M.E. Perillo, Sally D. Hacker, Elise F. Granek, Jurgenne H. Primavera, Nyawire Muthiga, Stephen Polasky, Benjamin S Halpern, Chris J Kennedy, Carrie V Kappel and Eric Wolanski. 2009. "Non-Linearity in Ecosystem Services: Temporal and Spatial Variability in Coastal Protection." *Frontiers in Ecology and the Environment* 7(1):29-37.

Barbier, E.B. 2008. "Letter: Paying for a Dirty and Leaky Bucket: Further Comments on the Bailout," *The Economists' Voice* Vol. 5 : Iss. 7, Article 5. <http://www.bepress.com/ev/vol5/iss7/art5>

Barbier, E.B., Koch, E.W., Silliman, B.R., Hacker, S.D., Wolanski, E., Primavera, J., Granek, E.F., Polasky, S., Aswani, S., Cramer, L.A., Stoms, D.M., Kennedy, C.J., Bael, D., Kappel, C.V., Perillo, G.M. and Reed, D.J. 2008. "Response to N. Koedam and F. Dahdouh-Guebas's E-Letter: Ecological Quality Changes Precede Changes in Quantity in Mangrove Forests" *Science* (E-Letter, 2 October 2008) <http://www.sciencemag.org/cgi/eletters/319/5861/321?ck=nck>

Barbier, E.B. 2008. "Poverty, Development, and Ecological Services." *International Review of Environmental and Resource Economics* 2(1):1-27.

Bhaduri, A. and Barbier, E.B. 2008. "Political Altruism of Transboundary Water Sharing." *The B.E. Journal of Economic Analysis & Policy* Vol. 8: Iss. 1 (Topics), Article 32. <http://www.bepress.com/bejeap/vol8/iss1/art32>

Umanskaya, V.I. and Barbier, E.B. 2008. "Can Rich Countries Become Pollution Havens?" *Review of International Economics* 16(4):627-640.

Walters, B.B., Rönnbäck, P., Kovacs, J., Crona, B., Hussain, S.A., Badola, R., Primavera, J., Barbier, E.B. and Dahdouh-Guebas, F. 2008. "Ethnobiology, Socio-economics and Management of Mangrove Forests: A Review." *Aquatic Botany* 89(2):220-236.

- Barbier, E.B., Koch, E.W., Silliman, B.R., Hacker, S.D., Wolanski, E., Primavera, J., Granek, E.F., Polasky, S., Aswani, S., Cramer, L.A., Stoms, D.M., Kennedy, C.J., Bael, D., Kappel, C.V., Perillo, G.M. and Reed, D.J. 2008. "Vegetation's Role in Coastal Protection." *Science* 320:176-177.
- Barbier, E.B. 2008. "In the Wake of Tsunami: Lessons Learned from the Household Decision to Replant Mangroves in Thailand." *Resource and Energy Economics* 30:229-249
- Bhaduri, A. and Barbier, E.B. 2008. "International Water Transfer and Sharing: The Case of the Ganges River." *Environment and Development Economics* 13(1):29-52.
- Barbier, E.B., Koch, E.W., Silliman, B.R., Hacker, S.D., Wolanski, E., Primavera, J., Granek, E.F., Polasky, S., Aswani, S., Cramer, L.A., Stoms, D.M., Kennedy, C.J., Bael, D., Kappel, C.V., Perillo, G.M. and Reed, D.J. 2008. "Coastal Ecosystem-Based Management with Nonlinear Ecological Functions and Values." *Science* 319:321-323.
- Barbier, E.B. 2007. "Natural Capital and Labor Allocation: Mangrove-Dependent Households in Thailand." *Journal of Environment and Development* 16(December): 398-431.
- Barbier, E.B. 2007. "Land Conversion, Interspecific Competition and Bioinvasion in a Tropical Ecosystem." *Journal of Agricultural & Applied Economics* 39(October):133-147.
- Barbier, E.B. and M. Rauscher. 2007. "Trade and Development in a Labor-Surplus Economy" *The B.E. Journal of Economic Analysis & Policy*: Vol. 7: Iss. 1 (Topics), Article 45.
<http://www.bepress.com/bejeap/vol7/iss1/art45>
- Barbier, E.B. and Hultberg, P. 2007. "Economic Integration, Environmental Harmonization and Firm Relocation." *Environment and Development Economics* 12(3):379-402.
- Worm, B., Barbier, E.B., Beaumont, N., Duffy, J.E., Folke, C., Halpern, B.S., Jackson, J.B.C., Lotzke, H.K., Micehli, F., Palumbi, S.R., Sala, E., Selkoe, K.A., Stachowicz, J.J. and Watson, R. 2007. "Biodiversity Loss in the Oceans: How Bad Is It?" *Science* 316:1282-1284.
- Pascual, U. and Barbier, E.B. 2007. "On Price Liberalization, Poverty and Shifting Cultivation: An Example from Mexico." *Land Economics*, 83(2):192-216.
- Bateman, Ian J., Barbier, E.B. and Barrett, S. 2007. "Introduction to the Special Issue in Honour of David W. Pearce: Environmental Economics and Policy." *Environmental and Resource Economics* 37:1-6.
- Barbier, E.B. 2007. "Frontiers and Sustainable Economic Development." *Environmental and Resource Economics* 37:271-295.
- Barbier, E.B. 2007. "Valuing Ecosystem Services as Productive Inputs" *Economic Policy* 22 (49): 177–229.
- Barbier, E.B. 2006. "Book Review: An Economic Approach for Water Management and Conflict Resolution in the Middle East and Beyond." *Journal of Economic Literature* 44: 1074-1075.
- Worm, B., Barbier, E.B., Beaumont, N., Duffy, J.E., Folke, C., Halpern, B.S., Jackson, J.B.C., Lotzke, H.K., Micehli, F., Palumbi, S.R., Sala, E., Selkoe, K.A., Stachowicz, J.J. and Watson, R. 2006. "Impacts of Biodiversity Loss on Ocean Ecosystem Services." *Science* 314:787-790.
- Barbier, E.B. and Knowler, D. 2006. "Commercialization Decisions and the Economics of Introduction." *Euphytica* 148(1/2):151-164.

- Barbier, E.B. 2006. "Natural Barriers to Natural Disasters: Replanting Mangroves after the Tsunami." *Frontiers in Ecology and the Environment* 4(3):124-131.
- Pascual, U. and Barbier, E.B. 2006. "Deprived Land-Use Intensification in Shifting Cultivation: The Population Pressure Hypothesis Revisited" *Agricultural Economics* 34:155-165.
- Barbier, E.B. and Heal, G.R. 2006. "Valuing Ecosystem Services." *The Economists' Voice* Vol. 3: No. 3, Article 2. Available at <http://www.bepress.com/ev/vol3/iss3/art2>
- Knowler, D. and Barbier, E. 2005. "Managing the Black Sea Anchovy Fishery with Nutrient Enrichment and a Biological Invader". *Marine Resource Economics* 20(3): 263-285.
- Barbier, E.B. 2005. "Natural Resource-Based Economic Development in History". *World Economics* 6(3):103-152..
- Barbier, E.B., Damania, R. and Léonard, D. 2005. "Corruption, Trade and Resource Conversion" *Journal of Environmental Economics and Management* 50:276-299.
- Bulte, E.H. and Barbier, E.B. 2005. "Trade and Renewable Resources in a Second-Best World: An Overview." *Environmental and Resource Economics* 30(4):423-463.
- Knowler, D. and Barbier, E.B. 2005. "Importing Exotic Plants and the Risk of Invasion: Are Market-Based Instruments Adequate?" *Ecological Economics* 52:341-354.
- Barbier, E.B. 2005. "Frontier Expansion and Economic Development." *Contemporary Economic Policy* 23(2):286-303.
- Barbier, E.B. 2004. "Explaining Agricultural Land Expansion and Deforestation in Developing Countries." *American Journal of Agricultural Economics* 86(5):1347-1353.
- Hultberg, P. and E.B. Barbier. 2004. "Cross-Country Policy Harmonization with Rent-Seeking." *Contributions to Economic Analysis & Policy* Vol. 3: Iss. 2. Article 4. <http://www.bepress.com/bejeap/contributions/vol3/iss2/art4>.
- Barbier, E.B. and Shogren, J.R. 2004. "Growth With Endogenous Risk of Biological Invasion." *Economic Inquiry* 42(4):587-601.
- Barbier, E.B. and Bulte, E.H. 2004. "Introduction to the Symposium on Trade, Renewable Resources and Biodiversity." *Journal of Environmental Economics and Management* 48(2):883-890.
- Barbier, E.B. and Cox, M. 2004. "An Economic Analysis of Shrimp Farm Expansion and Mangrove Conversion in Thailand," *Land Economics* 80(3):389-407.
- Benhin, J.K.A. and Barbier, E.B. 2004. "Structural Adjustment Programme, Deforestation and Biodiversity Loss in Ghana." *Environmental and Resource Economics* 27:337-366.
- Barbier, E.B. 2004. "Water and Economic Growth." *Economic Record* 80: 1-16.
- Barbier, E.B. 2004. "Agricultural Expansion, Resource Booms and Growth in Latin America: Implications for Long-Run Economic Development," *World Development* 32(1):137-157.
- Barbier, E.B. 2003. "Upstream Dams and Downstream Water Allocation - The Case of the Hadejia-Jama'are Floodplain, Northern Nigeria," *Water Resources Research* 39(11):1311-1319.

- Barbier, E.B., 2003. "Explaining Agricultural Expansion Resource Booms and Growth in Latin America," *Environment Development and Sustainability* 5: 437-458.
- Barbier, E.B. and Cox, M. 2003. "Does Economic Development Lead to Mangrove Loss? A Cross-Country Analysis," *Contemporary Economic Policy* 21(4):418-432.
- Barbier, E.B., 2003, "The Role of Natural Resources in Economic Development." *Australian Economic Papers* 42(2):253-272.
- Rodwell, L.D., Barbier, E.B., Roberts, C.M. and McClanahan, T.R., 2003, "The Importance of Habitat Quality for Marine Reserve-Fishery Linkages." *Canadian Journal of Fisheries and Aquatic Sciences* 60:171-181.
- Barbier, E.B., 2003, "Habitat-Fishery Linkages and Mangrove Loss in Thailand," *Contemporary Economic Policy*, 21(1):59-77.
- Rodwell, L.D., Barbier, E.B., Roberts, C.M. and McClanahan, T.R., 2002. "A Model of Tropical Marine Reserve-Fishery Linkages," *Natural Resource Modeling*, 15(4):453-486.
- Acharya, G. and Barbier, E.B. 2002. "Using Domestic Water Analysis to Value Groundwater Recharge in the Hadejia-Jama'are Floodplain, Northern Nigeria," *American Journal of Agricultural Economics*, 84(2):415-426.
- Barbier, E.B., Strand, I. and Sathirathai, S., 2002, "Do Open Access Conditions Affect the Valuation of an Externality? Estimating the Welfare Effects of Mangrove-Fishery Linkages," *Environmental and Resource Economics* 21(4):343-367.
- Barbier, E.B. and Cox, M., 2002, "Economic and Demographic Factors Affecting Mangrove Loss in the Coastal Provinces of Thailand, 1979-1996," Special Issue of *Ambio*, 3(4):351-357.
- Barbier, E.B., 2002, "Institutional Constraints and Deforestation: An Application to Mexico," *Economic Inquiry*, 40(3):508-519.
- Barrett, C.B., Barbier, E.B. and Reardon, T., 2002, "Agroindustrialization, Globalization, and International Development: the Environmental Implications," *Environment and Development Economics*, 6:419-433.
- Perrings, C., M. Williamson, E.B. Barbier, D. Delfino, S. Dalmazzone, J. Shogren, P. Simmons, and A. Watkinson., 2002, "Biological Invasion risks and the Public Good: an Economic Perspective," *Conservation Ecology*, 6(1):1.
- Knowler, D., Barbier, E.B. and Strand, I., 2001, "An Open-Access Model of Fisheries and Nutrient Enrichment in the Black Sea," *Marine Resource Economics*, 16(3):195-217.
- Barbier, E.B., 2001, "A Note on the Economics of Biological Invasions," *Ecological Economics*, 39(197-202).
- Barbier, E.B. and Burgess, J.C., 2001, "The Economics of Tropical Deforestation," *Journal of Economic Surveys*, 15(3):413-432.
- Barbier, E.B. and Burgess, J.C., 2001, "Tropical Deforestation, Tenure Insecurity and Unsustainability," *Forest Science*, 47(4):497-509..

- Benhin, J. and Barbier, E.B., 2001, "The Effects of the Structural Adjustment Program on Deforestation in Ghana," *Agricultural and Resource Economics Review* 30/1:66-80.
- Barbier, E.B. 2001, "The Economics of Tropical Deforestation and Land Use: An Introduction to the Special Issue," *Land Economics*, 77:155-171.
- Sathirathai, S. and Barbier, E.B., 2001, "Valuing Mangrove Conservation in Southern Thailand," *Contemporary Economic Policy*, 19(2):109-122.
- Barbier, E.B., 2000, "The Economic Linkages between Rural Poverty and Land Degradation: Some Evidence from Africa," *Agriculture, Ecosystems and Environment*, 82:355-370.
- Barbier, E.B., 2000, "Valuing the Environment as Input: Applications to Mangrove-Fishery Linkages," *Ecological Economics*, 35:47-61.
- Barbier, E.B., 2000, "Links between Economic Liberalization and Rural Resource Degradation in the Developing Regions," *Agricultural Economics*, 23:299-310.
- Barbier, E.B., 2000, "Biodiversity, Trade and International Agreements," *Journal of Economic Studies*, 27(1/2):55-74.
- Acharya, G. and Barbier, E.B., 2000, "Valuing Groundwater Recharge Through Agricultural Production in the Hadejia-Nguru Wetlands in Northern Nigeria," *Agricultural Economics*, 22:247-259.
- Cox, M., Barbier, E.B., White, P.C.L., Newton-Cross, G.A., Kinsella, L. and Kennedy, H.J., 1999, "Public Preferences Regarding Rabies-Prevention Policies in the UK," *Preventive Veterinary Medicine*, 41:257-270.
- Barbier, E.B., 1999, "Endogenous Growth and Natural Resource Scarcity," *Environmental and Resource Economics*, 14(1):51-74.
- Barbier, E.B. and Homer-Dixon, T., 1999, "Resource Scarcity, Institutional Adaptation, and Technical Innovation," *Ambio*, 28(2):144-147.
- Barbier, E.B., 1999, "The Effects of the Uruguay Round Tariff Reductions on the Forest Products Trade: A Partial Equilibrium Analysis," *World Economy*, 22(1):87-115.
- Barbier, E.B., 1998, "Deforestation, Land Degradation and Rural Poverty in Latin America: Examining the Evidence," *Planejamento e Políticas Públicas (Public Planning and Policy)*, Instituto de Pesquisa Econômica Aplicada (IPEA), Brazil, *Special Issue on Economic Issues for Environmental Policymaking in Developing Countries*, 18:155-170.
- Barbier, E.B. and Thompson, J.R., 1998, "The Value of Water: Floodplain versus Large-Scale Irrigation Benefits in Northern Nigeria," *Ambio*, 27(6):434-440.
- Barbier, E.B. and Strand, I., 1998, "Valuing Mangrove-Fishery Linkages: A Case Study of Campeche, Mexico," *Environmental and Resource Economics*, 12:151-166.
- Parks, P., Barbier, E.B., and Burgess, J.C., 1998, "Forest Land Use Options in Temperate and Tropical Forests," Special Issue: Frontiers of Environmental and Resource Economics, *Environmental and Resource Economics*, 11(3-4): 473-487.
- Barbier, E.B., 1997, "Introduction to the Special Issue on Environmental Kuznets Curves," *Environment and Development Economics*, 2(4):369-381.

- Barbier, E.B. and Burgess, J.C., 1997, "Economic Analysis of Tropical Forest Land Use Options," *Land Economics*, 73(2):174-195.
- Barbier, E.B. and Schulz, C.-E., 1997, "Wildlife, Biodiversity and Trade," *Environment and Development Economics*, 2(2):33-60.
- Barbier, E.B., 1997, "The Economic Determinants of Land Degradation in Developing Countries," *Philosophical Transactions of the Royal Society, Series B* 352:891-899.
- Barbier, E.B. and Burgess, J.C., 1996, "Economic Analysis of Deforestation in Mexico," *Environment and Development Economics*, 1(2):203-240.
- Stern, D., Common, M. and Barbier, E.B., 1996, "Economic Growth and Environmental Degradation: The Environmental Kuznets Curve and Sustainable Development," *World Development*, 24(7):1151-1160.
- Barbier, E.B. and Aylward, B.A., 1996, "Capturing the Pharmaceutical Value of Biodiversity in a Developing Country," *Environmental and Resource Economics*, 8(2):157-191.
- Barbier, E.B., Bockstael, N., Burgess, J.C. and Strand, I., 1995, "The Linkages Between the Timber Trade and Tropical Deforestation – Indonesia," *World Economy*, 18(3):411-442.
- Barbier, E.B. and Bishop, J.T., 1995, "Economic and Social Values Affecting Soil and Water Conservation in Developing Countries," *Journal of Soil and Water Conservation*, (March-April):133-135.
- Barbier, E.B., 1995, "The Role of Trade Interventions in the Sustainable Management of Key Resources: The Cases of African Elephant Ivory and Tropical Timber," *Journal of Environment and Development*, 4(2):1-32.
- Barbier, E.B., 1995, "The Economics of Forestry and Conservation: Values and Policies," *Commonwealth Forestry Review*, Special Issue on Forestry and Conservation, 74(1):26-34.
- Barbier, E.B., 1995, "Trade Barriers in Forest Products and the Implications of the Uruguay Round for GATT," *Unasylva*, 46(183):3-10.
- Barbier, E.B., and Rauscher, M., 1994, "Trade, Tropical Deforestation and Policy Interventions," *Environmental and Resource Economics*, 4:75-90.
- Barbier, E.B., 1994, "Valuing Environmental Functions: Tropical Wetlands," *Land Economics*, 70(2):155-174.
- Barbier, E.B., 1993, "Valuing Tropical Wetland Benefits: Economic Methodologies and Applications," *Geographical Journal*, Part 1, 159:22-32, March.
- Barbier, E.B., 1993, "Economic Aspects of Tropical Deforestation in Southeast Asia," *Global Ecology and Biogeography Letters*, 3:1-20.
- Barbier, E.B., 1992, "Rehabilitating Gum Arabic Systems in Sudan: Economic and Environmental Implications," *Environmental and Resource Economics*, 2:341-352.
- Barbier, E.B. and Aylward, B.A., 1992, "Valuing Environmental Functions in Developing Countries," *Biodiversity and Conservation*, 1:34-50.

- Barbier, E.B. and Pearce, D.W., 1991, "Global Warming: A View from Europe," *The Energy Journal*, 12(1):147-160.
- Barbier, E.B., Burgess, J.C. and Markandya, A., 1991, "The Economics of Tropical Deforestation," *Ambio*, 20(2):52-54.
- Barbier, E.B., 1993, "Managing Trade and Environment: The Demand For Raw Ivory in Japan and Hong Kong", *World Economy*, 16(6) 407-430.
- Barbier, E.B. and Pearce, D.W., 1990, "Thinking Economically About Climate Change," *Energy Policy*, 11-18.
- Barbier, E.B. and Markandya, A., 1990, "The Conditions for Achieving Environmentally Sustainable Development," *European Economic Review*, 34:659-669.
- Barbier, E.B., Markandya, A. and Pearce, D.W., 1990, "Sustainable Agricultural Development and Project Appraisal," *European Review of Agricultural Economics*, 17:181-96.
- Barbier, E.B., 1990, "The Farm-Level Economics of Soil Conservation: The Uplands of Java," *Land Economics*, 66(2):199-211.
- Barbier, E.B., 1990, "Alternative Approaches to Economic-Environmental Interaction," *Ecological Economics*, 2:7-26.
- Barbier, E.B., Pearce, D.W. and Markandya, A., 1990, "Environmental Sustainability and Cost Benefit Analysis," *Environment and Planning A*, 22:1259-66.
- Barbier, E.B., 1989, "The Global Greenhouse Effect: Economic Impacts and Policy Options," *Natural Resources Forum*, 13:65-77.
- Barbier, E.B., 1989, "Cash Crops, Food Crops and Agricultural Sustainability: The Case of Indonesia," *World Development*, 17(6):1378-87.
- Barbier, E.B., 1989, "The Contributions of Environmental and Resource Economics to an Economics of Sustainable Development," *Development and Change*, 20(3):429-59.
- Barbier, E.B., 1989, "Sustainable Agriculture and the Resource Poor: The Policy Framework," *Environment*, 31(2):13-17,36-40.
- Barbier, E.B., 1988, "Economic Valuation of Environmental Impacts," *Project Appraisal*, 3:143-50.
- Conway, G.R. and Barbier, E.B., 1988, "After the Green Revolution: Sustainable and Equitable Agricultural Development," *Futures*, 20:651-71.
- Barbier, E.B., 1987, "The Concept of Sustainable Economic Development," *Environmental Conservation* 14(2):101-10.
- Barbier, E.B. and Mahoney, N., 1985, "Do Workers' Co-operatives Innovate in the Third World?," *Science and Public Policy*, 12:67-71.

Refereed Chapters in Books:

Barbier, E.B., Hacker, S.D., Koch, E.W., Stier, A. and Silliman, B. "Estuarine and Coastal Ecosystems and their Services." Chapter 6 in M. van den Belt and R. Costanza (eds.), *Volume 12: Ecological Economics of Estuaries and Coasts in the Treatise on Estuarine and Coastal Science* (Series eds., E. Wolanski, and D. McLusky), Elsevier, Amsterdam (*in press*).

Barbier, E.B. 2010. "Sustainable Resource-Based Development in Asia and the Pacific: Overcoming the Problem of "Dualism within Dualism"". Chapter 3 in R.K. Chung and E. Quah (eds.), *Pursuing Green Growth in Asia and the Pacific*, Cengage Learning Asia, Singapore, pp. 67-86.

Barbier, E.B., Baumgärtner, S., Chopra, K., Costello, C., Duraiappah, A., Hassan, R., Kinzig, A., Lehman, M., Pascual, U., Polasky, S. and Perrings, C. 2009. "The Valuation of Ecosystem Services." Chapter 3.18 in S. Naeem, D.E. Bunker, A. Hector, M. Loreau and C. Perrings, eds. *Biodiversity, Ecosystem Functioning, & Human Wellbeing*, Oxford University Press, Oxford, pp. 248-262.

Barbier, E.B. "Trade and Natural Resources". Chapter 5 in K.P. Gallagher (ed.), *Handbook on Trade and Environment*, Edward Elgar, Cheltenham, UK, 368 pp.

Barbier, E.B. 2009. "Ecosystem Service Trade-offs." Chapter 8 in K. McLeod and H. Leslie, eds. *Ecosystem-Based Management for the Oceans*. Island Press, Washington, DC, pp. 129-144.

Barbier, E.B. 2007. "Economics of Land Conversion, Open Access and Biodiversity Loss." Chapter 2 in A. Kantolean, U. Pascual and T. Swanson (eds.), *Biodiversity Economics: Principles, Methods and Applications*, Cambridge University Press, Cambridge, pp. 59-91.

Bulte, E.H. and Barbier, E.B. 2007. "Trade and Renewable Resources in a Second-Best World: An Overview." Chapter 7 in A. Kantolean, U. Pascual and T. Swanson (eds.), *Biodiversity Economics: Principles, Methods and Applications*, Cambridge University Press, Cambridge, pp. 203-245.

Barbier, E.B. 2006. "Mangrove Dependency and the Livelihoods of Coastal Communities in Thailand." Chapter 10 in C.T. Hoanh, T. P. Tuong, J.W. Gowing and B.Hardy (eds.), *Environment and Livelihoods in Tropical Coastal Zones: Managing Agriculture – Fishery – Aquaculture Conflicts*, CAB International, Wallingford, Oxford, pp. 126-139.

Barbier, E.B. 2006. "Natural Capital, Resource Dependency and Poverty in Developing Countries: The Problem of 'Dualism within Dualism'". In R. López and M. Toman (eds.), *Economic Development and Environmental Sustainability*, Oxford University Press, pp. 23-59.

Barbier, E.B., 2003. "Environmental Project Evaluation in Developing Countries." In D. Ervin, J. Kahn and M. L. Livingston (eds.), *Does Environmental Policy Work? The Theory and Practice of Outcomes Assessment*. Edward Elgar, Cheltenham, UK, pp. 55-82.

Barbier, E.B., 2001, "Deforestation, Land Degradation, and Rural Poverty in Latin America: Examining the Evidence," in R. Seroa da Motta, (ed.), *Environmental Economics and Policy Making in Developing Countries: Current Issues*, Edward Elgar, Cheltenham, UK, pp. 118-139.

Barbier, E.B., 2001, "Environmental Valuation in Developing Countries," in H. Folmer and T. Tietenberg, eds. *The International Yearbook of Environmental and Resource Economics 2001/2002*, Edward Elgar, Cheltenham, UK, pp.1-39.

Barbier, E.B., 2001, "Trade and Sustainable Forestry," in G.G. Schulze and H.W. Ursprung (eds.), *International Environmental Economics: A Survey of the Issues*, Oxford University Press, pp. 114-147.

- Barbier, E.B., 2000, Comments on the Paper by R. Jha and J. Whalley "The Environmental Regime in Developing Countries," in C. Carraro and G. Metcalf (eds.), *Behavioral and Distributional Effects of Environmental Policy*, Chicago Press, Chicago, pp.242-249.
- Knowler, D.J. and Barbier, E.B., 2000, "The Economics of An Invading Species: A Theoretical Model and Case Study Application," in C.Perrings, M.Williamson and S. Dalmazzone (eds.), *The Economics of Biological Invasions*, Edward Elgar, London, pp. 70-93.
- Barbier, E.B., 2000, "How to Allocate Biodiversity Internationally," in H. Siebert (ed.), *The Economics of International Environmental Problem*, Kiel Institute for World Economics, Mohr Siebeck, Tübingen, Germany, pp. 79-106.
- Benhin, J.K. and Barbier, E.B., 2000, "Estimating the Biodiversity Effects of Structural Adjustment in Ghana," in C. Perrings (ed.), *The Economics of Biodiversity Conservation in Sub-Saharan Africa*, Edward Elgar, London, pp. 273-300.
- Barbier, E.B., 2000, "Rural Poverty and Natural Resource Degradation," in R. López and A. Valdés (eds.), *Rural Poverty in Latin America*, St. Martin's Press, New York, pp. 152-184.
- Barbier, E.B., 1999, "Poverty, Environment and Development," in J.C.J.M. van den Bergh (ed.), *The Handbook of Environmental and Resource Economics*, Edward Elgar, London, pp 731-744.
- Barbier, E.B., 1998, "Timber Trade and Environment," in M. Palo and J. Uusivuori (eds.), *World Forests, Society and Environment*, United Nations University, Helsinki, pp 106-117.
- Barbier, E.B., 1998, "The Economics of Soil Erosion: Theory, Methodology and Examples," in E.B. Barbier, (ed.), *The Economics of Environment and Development: Selected Essays*, Edward Elgar, London, pp. 281-307.
- Barbier, E.B., 1998, "The Role of Smallholder Producer Prices in Land Degradation: The Case of Malawi." In E.B. Barbier (ed.), *The Economics of Environment and Development: Selected Essays*, Edward Elgar, London, pp. 254-280.
- Ansuategi, A., Barbier, E.B. and Perrings, C., 1998, "The Environmental Kuznets Curve," in J.C.J.M. van den Bergh and M.W. Hofkes (eds.). *Theory and Implementation of Economic Models for Sustainable Development*, Kluwer Academic Publishers, pp. 139-164.
- Barbier, E.B., 1998, "The Economics of the Tropical Timber Trade and Sustainable Forest Management," in F.B. Goldsmith (ed.), *Tropical Rain Forest: A Wider Perspective*, Chapman and Hall, London, pp. 199-254.
- Barbier, E.B., 1997, "Macroeconomic and Sectoral Policies, Natural Resources and Sustainable Agricultural Growth," in S. Vosti, and T. Reardon (eds.), *Sustainability, Growth, and Poverty Alleviation: A Policy and Agroecological Perspective*, Johns Hopkins University Press for the International Food Policy Research Institute, pp. 119-134.
- Barbier, E.B. and Rauscher, M., 1995, "Policies to Control Tropical Deforestation: Trade Interventions vs Transfers," in C. Perrings, K-G. Mäler, C. Folke, C.S. Holling and B-O. Jansson (eds.), *Biodiversity Loss: Ecological and Economic Issues*, Cambridge University Press, pp. 260-282.
- Barbier, E.B., 1995, "Tropical Wetland Values and Environmental Functions," in C. Perrings, K-G. Mäler, C. Folke, C.S. Holling and B-O. Jansson (eds.), *Biodiversity Conservation: Policy Issues and Options*, Kluwer Academic Press, Amsterdam, pp. 147-170.

- Barbier, E.B., Brown, G., Dalmazzone, S., Folke, C., Gadgil, M., Hanley, N., Holling, C.S., Lesser, W.H., Mäler, K.-G., Mason, P., Panayotou, T., Perrings, C., Turner, R.K., and Wells, M., 1995, "The Economic Value of Biodiversity," Chapter 12 in UNEP, *Global Biodiversity Assessment*, Cambridge University Press, pp. 823-914.
- Barbier, E.B., 1994, "Natural Capital and the Economics of Environment and Development," in AM. Jansson, M. Hammer, C. Folke and R. Costanza (eds.), *Investing in Natural Capital: The Ecological Economics Approach to Sustainability*, Island Press, Washington DC, pp. 291-322.
- Barbier, E.B., Bockstael, N., Burgess, J.C. and Strand, I., 1994, "The Timber Trade and Tropical Deforestation in Indonesia," in K. Brown and D.W. Pearce (eds.), *The Causes of Tropical Deforestation: The Economic and Statistical Analysis of Factors Giving Rise to the Loss of the Tropical Forests*, University College London Press, London, pp. 242-270.
- Barbier, E.B., Burgess, J.C., Bishop, J.T. and Aylward, B.A., 1994, "The Role of the International Trade in Tropical Timber," in K. Brown and D.W. Pearce (eds.), *The Causes of Tropical Deforestation: The Economic and Statistical Analysis of Factors Giving Rise to the Loss of the Tropical Forests*, University College London Press, London, pp. 271-297.
- Barbier, E.B., 1994, "The Environmental Effects of Trade in the Forestry Sector," in Organization for Economic Cooperation and Development (OECD), *The Environmental Effects of Trade*, OECD, Paris, pp. 55-102.
- Barbier, E.B., Adams, W.M. and Kimmage, K., 1993, "An Economic Valuation of Wetland Benefits," in G.E. Hollis, W.M. Adams and M. Aminu-Kano (eds.), *The Hadejia-Nguru Wetlands: Environment, Economy and Sustainable Development of a Sahelian Floodplain Wetland*, IUCN, pp. 191-209.
- Barbier, E.B., 1993, "The Role of Economic Incentives for Natural Resource Management in Developing Countries," in H. Giersch (ed.), *Economic Evolution and Environmental Concerns*, Kiel Institute of World Economics and Kluwer Press, pp. 153-178.
- Barbier, E.B. and Markandya, A., 1993, "Environmentally Sustainable Development: Optimal Economic Conditions," in E.B. Barbier (ed.), *Economics and Ecology: New Frontiers and Sustainable Development*, Chapman and Hall, London, pp. 11-28.
- Barbier, E.B., 1993, "Valuation of Environmental Resources and Impacts in Developing Countries", in R.K. Turner (eds.), *Sustainable Environmental Management: Principles and Practice*, 2nd edition, Bellhaven Press, London, pp. 319-337.
- Barbier, E.B., Burgess, J.C. and Pearce, D.W., 1992, "Technological Substitution Options for Controlling Greenhouse Gas Emissions," in J. Poterba and R. Dornbusch (eds.), *Economic Policy Responses to Global Warming*, MIT Press, pp. 109-160.
- Barbier, E.B., 1991, "Tropical Deforestation", Chapter 8, in D.W. Pearce (ed.), *Blueprint 2: The Greening of the World Economy*, Earthscan Publications, London, pp. 138-166.
- Barbier, E.B., 1991, "Environmental Degradation in the Third World," Chapter 6, in D.W. Pearce (ed.), *Blueprint 2: The Greening of the World Economy*, Earthscan Publications, London, pp. 75-108.
- Barbier, E.B., 1991, "Natural Resource Degradation: Policy, Economics and Management," in J. Winpenny (ed.), *Development Research: The Environmental Challenge*, Overseas Development Institute, London, pp. 43-57.

Barbier, E.B. and D.W. Pearce, 1990, "Uncertainty, Irreversibility and Decision Making about the Socio-Economic Consequences of Climatic Change," in M.M. Boer and R.S De Groot (eds.), *Landscape-Ecological Impact of Climate Change*, IOS Press, Amsterdam, pp. 347-360.

Barbier, E.B., 1990, "The Economic Policy Framework for Natural Resource Management," Appendix 1 in Nicholas Polunin and John H. Burnett (ed.), *Maintenance of the Biosphere*, Proceedings of the Third International Conference on Environmental Futures (3rd ICEF), Edinburgh University Press, pp. 199-206.

Barbier, E.B., 1990, "Economics for Sustainable Production," in Rosalyn Prinsley (ed.), *Agroforestry for Sustainable Production: Economic Implications*, Commonwealth Science Council, London, pp. 389-404.

Barbier, E.B., 1990, "Environmental Policy: the Greening of the UK Economy," Chapter 8 in Peter Jackson and Francis Terry (eds.), *Public Domain 1990*, Public Finance Foundation with Peat, Marwick, McLintock, London, pp. 85-98.

Pearce, D.W., Barbier, E.B. and Markandya, A., 1988, "Environmental Economics and Decision-Making", in Swedish Ministry of Foreign Affairs, *Recovery in Africa: A Challenge for Development Cooperation in the 1990s*, Stockholm, pp. 271-89.

Barbier, E.B. and Madeley, J., 1987, "Food and Agriculture," Chapter 4, in IIED and the World Resources Institute, *World Resources 1987*, Basic Books, New York, pp. 39-56.

Barbier, E.B., 1986, "The Potential for Reviving Economic Growth: The Political Economy of Resource Misallocation", in P. Ekins (ed.), *The Living Economy*, Routledge and Kegan Paul, London.

Non-Refereed Chapters in Books:

Burgess, J.C. and Barbier, E.B., 2002, "Sustainable Development," in N.J. Smelser and P.B Baltes (eds.), *International Encyclopedia of the Social & Behavioral Sciences*, Elsevier Science Ltd. UK pp. 15329-15335.

Barbier, E.B., 2001, "Deforestation, Land Degradation and Rural Poverty in Latin America: Examining the Evidence," in Ronaldo Seroa da Motta (ed.), *Environmental Economics and Policy Making in Developing Countries*, Edward Elgar, Cheltenham, UK * Northampton, MA, pp. 118-139.

Benhin, J.K. and Barbier, E.B., 2000, "The Structural Adjustment Programme and Deforestation in Ghana," in C. Perrings (ed.), *The Economics of Biodiversity Conservation in Sub-Saharan Africa*, Edward Elgar, London, pp. 232-272.

Benhin, J.K. and Barbier, E.B., 2000, "Forestry, Deforestation and Biodiversity in Ghana," in C. Perrings (ed.), *The Economics of Biodiversity Conservation in Sub-Saharan Africa*, Edward Elgar, London, pp. 185-231.

Barbier, E.B., Bishop, J.T., Aylward, B.A. and Burgess, J.C., 1992, "Economic Policy and Sustainable Natural Resource Management," Chapter 3, in J. Holmberg (ed.), *Policies for a Small Planet*, Earthscan Publications, London, pp. 65-90.

Barbier, E.B., Burgess, J.C. and Pearce, D.W., 1991, "The Environment and Sustainable Development," in N.P. Girvan and D.A. Simmons (eds.), *Caribbean Ecology and Economics*, Caribbean Conservation Association, St. Michael, Barbados, pp. 25-44.

Barbier, E.B., 1991, "An Approach to Economic Evaluation of Tropical Wetlands: With Examples from Guatemala and Nicaragua," in N.P. Girvan and D.A. Simmons (eds.), *Caribbean Ecology and Economics*, Caribbean Conservation Association, St. Michael, Barbados, pp. 207-232.

Refereed Proceedings/Transactions/Commentaries:

Barbier, E.B. 2009. "Global Governance: the G20 and a Global Green New Deal." Economics Discussion Papers, No 2009-38. <http://www.economics-ejournal.org/economics/discussionpapers/2009-38>

Barbier, E.B. 2009. "The G20 agenda should include implementing a global 'green' new deal." VoxEU.org 7 March 2009 Available at <http://www.voxeu.org/index.php?q=node/3223>

Barbier, E.B. 2007. "Valuation of ecosystem services supporting aquatic and other land-based food systems." In D.M. Bartley, C. Brugère, D. Soto, P. Gerber and B. Harvey (eds). Comparative assessment of the environmental costs of aquaculture and other food production sectors: methods for meaningful comparisons. FAO/WFT Expert Workshop. 24-28 April 2006, Vancouver, Canada. *FAO Fisheries Proceedings*. No. 10. Rome, FAO, pp. 71-86.

Barbier, E.B. 2007. "To Replant or Not To Replant. Natural Barriers? Perhaps that is the Wrong Question." In S. M. Baker, J. Johansson and D. Westbrook, eds. Proceedings of the Conference on Macromarketing and Development: Building Bridges and Forging Alliances. Washington, D.C., June 2-5, 2007, pp. 435-440.

Hanley, N., Angelopoulos, K., Tinch, D., Davies, A., Watson, F. and Barbier, E.B. "What Drives Long-Term Biodiversity Change? Insights from Combining Economics, Paleo-Ecology, and History." Resources for the Future Discussion Paper (RFF DP 07-23, Washington DC, April 2007. Paper presented at the Frontiers in Environmental Economics Conference, Resources for the Future, Washington, DC, 26-27 February 2007.

Barbier, E.B., 1998, "Environmental Project Evaluation in Developing Countries: Valuing the Environment as Input." Paper prepared for the Resource Policy Consortium Panel, Environmental Outcomes Assessment I: Conceptual Issues, World Congress of Environmental and Resource Economists, Venice, 25-27 June 1998

Barbier, E.B., 1998, "The Value of Water and Watersheds: Reconciling Ecological and Economic Externalities." Conference on "Managing Human-dominated Ecosystems," Missouri Botanical Garden, St Louis, Missouri, 26-28 March 1998, Missouri Botanical Press, USA, pp. 117-140.

Burgess J.C. and Barbier E.B., 1998, "Tenure Security, Trade Induced Price Changes and Tropical Forest Conversion." Proceedings of the Environmental Policy and Society Workshop on Trade Impacts on Forest Communities, Stallet, Sweden, January 1998 (in press).

Barbier, E.B., 1998, "Comments on Environment, Poverty and Economic Growth," in B. Pleskovic and J. Stiglitz (eds.). *Annual Bank Conference on Development Economics 1997*, The World Bank, Washington DC, 1998, pp. 271-276.

Barbier, E.B., 1997, "Valuing the Environment as Input: Applications to Mangrove-Fishery Linkages." Proceedings of the 4th Workshop of the Global Wetlands Economics Network (GWEN), Wetlands: Landscape and Institutional Perspectives, Beijer International Institute for Ecological Economics, Royal Swedish Academy of Sciences, Stockholm, 16-17 November, 1997 (in press).

Barbier, E.B. and Homer-Dixon, T., 1997, "Environmental Change, Social Conflict and Limits to Adaptation in Developing Countries", in Lonergan, S.C. (eds.), *Environmental Change, Adaptation, and Security*. Proceedings of the NATO Advanced Research Workshop on Environmental Change, Adaptation and Security, Budapest, Hungary, 16-18 October, 1997, Kluwer, The Netherlands. pp. 335-350.

Barbier, E.B., 1997, "Ecological Economics, Uncertainty and Implications for Policy Setting Priorities for Biodiversity Conservation," in OECD, *Investing in Biological Diversity: The Cairns Conference*, OECD, Paris, 1997, pp. 115-140.

Barbier, E.B., 1996, *Impact of the Uruguay Round on International Trade in Forest Products*. FAO, Rome, April 1996, 51 pp.

Barbier, E.B. and Burgess, J.C., 1992, *Malawi - Land Degradation in Agriculture*, The World Bank, Environment Department, Divisional Working Paper No. 1992-37, Washington DC, August 1992.

Barbier, E.B. and Burgess, J.C., 1992, "Agricultural Pricing and Environmental Degradation", *Policy Research Working Papers, World Development Report*, The World Bank, Washington DC, 1992.

Barbier, E.B., 1988, "The Economics of Farm Level Adoption of Soil Conservation Measures", *Environment Department Working Paper No. 11*, World Bank, Washington DC, October 1988.

Other:

Editor (with I. Bateman and S. Barrett), *Special Issue in Honour of David W. Pearce: Environmental Economics and Policy*, *Environmental and Resource Economics* 37, June 2007.

Editor (with E. Bulte), *Symposium on Trade, Renewable Resources and Biodiversity*, *Journal of Environmental Economics and Management*, 48(2), September 2004.

Editor (with C. Barrett and T. Reardon), *Special Issue on the Links between Agroindustrialization and the Environment in Developing Countries*, *Environment and Development Economics*, 6, 2001.

Editor (with J.C. Burgess), *Special Issue on the Economics of Tropical Deforestation and Land Use*, *Land Economics*, 77(2), May 2001.

Editor, *Special Issue on Environmental Kuznets Curves*, *Environment and Development Economics*, 2(4), October 1997.

CONTRACTS AND GRANTS (Since 1993)

Funded Projects as PI:

Barbier, Granek, Koch, Stoms and Aswani-Canela, "Measuring Ecological, Economic and Social Values of Coastal Habitats to Inform Ecosystem-based Management of Land-Sea Interfaces", *Ecosystem-Based Management Workshop Series*, National Center for Ecological Analysis and Synthesis, 2007 to 2008. Total budget: \$190,400.

Barbier, Knowler and Reichard, *The Economics and Ecology of the Risk of Invasive Plant Establishment from the Horticultural Trade in North America*, Program of Research on the Economics of Invasive Species Management (PREISM), Economic Research Service, US Department of Agriculture, 2006 to 2007. Total budget: US\$207,000.

Barbier, Knowler and Reichard, *The Ecology and Economics of Commercialization when Plants Carry a Risk of becoming Invasive*, Seed Money Grant, The Center for Invasive Plant Management, Montana State University, 2004 to 2005. Total budget: US\$4,950.

Barbier, *Water Scarcity and Economic Growth in Wyoming*, 2003 to 2005. US Geological Survey/Wyoming Water Development Council. Total budget: US\$60,128.

Barbier, Follow-up Research on Shrimp Farming and Mangrove Loss in Thailand, University of York, Department of Environment, 2002. Total Budget US\$2,870.

Barbier, Economic Analysis of Upstream-Downstream Water Allocation in Developing Countries, Department of Economics, Stanford University, 2002 to 2004. Total budget: US\$94,377.

Barbier (Centre for Environment and Development Economics, Environment Dept) and Sathirithai (Institute for Social and Economic Policy, Thailand), Demographic and Economic Factors Determining Coastal Land Conversion into Commercial Shrimp Farms, Thailand, MacArthur Foundation, 1999 to 2002. Total budget: US\$200,000.

Barbier, Environmental Economics Input, Guidelines for Artificial Flood Releases from Reservoirs to Maintain Downstream Wetlands, Institute of Hydrology, UK Department for International Development, World Commission on Dams and World Bank, 1998 to 2001, UK£10,000.

Barbier, Background Document on Trade and Environment, prepared for the International Tropical Timber Organization for the Second Session of the Intergovernmental Forum on Forests, Geneva, 24 August - 4 September 1998, US\$10,000.

Barbier and Benhin, Comparative Analysis of the Impacts of Structural Adjustment on Deforestation, Cameroon and Ghana, Center for International Forestry Research, 1997-9, US\$45,000.

Barbier, Forest Products Trade and the Environment, the UK Overseas Development Administration and the International Tropical Timber Organization, Report on behalf of the UN Intergovernmental Panel on Forests, IIIrd Session, 1996-7, UK£20,000.

Barbier, Acreman, Knowler, Guidelines for Economic Valuation of Wetlands, the Ramsar Convention Bureau and World Conservation Union (IUCN), Geneva, 1995-7, SFr 9,000.

Barbier and Acharya, Economic Valuation of Groundwater Recharge, Hadejia-Jama'are Floodplain, Nigeria, World Conservation Union (IUCN) and the World Wildlife Fund (WWF), 1995-7, SFr 7,500.

Barbier, Strand, Knowler, Technical Report on the Economics of the Black Sea Fisheries and Fishing Industry: The Effects of Eutrophication on the Fisheries, Black Sea Environmental Programme, The World Bank/UNEP Global Environmental Facility (GEF), Istanbul, Turkey, 1995-7, US\$15,000.

Barbier, Assessment of the Effects of the Uruguay Round on International Trade in Forest Products, UN Food and Agricultural Organization (FAO), Rome and the World Trade Organization, Geneva, 1994-5, US\$20,000.

Barbier, Burgess and Collins, Mexico - Forestry and Conservation Sector Review: Sub-Study of Economic Issues for Implementation of the New Forestry Policy, Latin American and Caribbean Country Dept (LA2), The World Bank, 1993, US\$32,000.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Editorial Boards/Editorships:

Scientific Advisory Board, *Environmental and Resource Economics*, September 2008 - present

Editorial Board, *Resource & Energy Economics*, December 2006 - present

Editorial Board, *Land Economics*, October 2006 – present.

Associate Editor, *Frontiers in Ecology and the Environment* (Ecology Society of America), November 2005 - present.

Editorial Board, *Australian Economic Papers* (Blackwells), April 2004 - present.

Policy Board, *Environment and Development Economics* (Cambridge University Press), Jan 2003 - present.

Editorial Board, *Contemporary Economic Policy* (Western Economic Association International), July 2001 - present.

Editorial Board, *Conservation Ecology* (Ecological Society of America), 1996 - present.

Editorial Council, *Journal of Environmental Economics and Management* (Academic Press), 2001-2003.

Associate Editor, *Environment and Development Economics* (Cambridge University Press), 1995-2003.

Editorial Board, *Biodiversity Letters* (Blackwell), 1993-6.

Other:

Advisory Board, The Economics of Ecosystems and Biodiversity, The Green Economy Initiative, United Nations Environment Programme, 2008 – present.

Member, International Council of Science (ICSU) Ad-hoc Scoping Group on Natural and Human-Induced Environmental Hazards, 2005 – present.

Member, Environment and Sustainable Development Task Force, Initiative for Policy Dialogue, Columbia University, June 2003 – present.

Member, Scientific Committee, DIVERSITAS, 2004 – 2009.

Expert Reviewer, Comprehensive Assessment of Water Management in Agriculture, International Water Management Institute, August 2005 – 2007.

Peer Reviewer, Program of Research on the Economics of Invasive Species Management (PREISM), US Department of Agriculture, 2004.

Economics Assessor, International Review of Australian National University 1995-2003, May-June 2004.

Member, Governor's Task Force on Enhanced Oil Recovery, Governor's Office, Wyoming, November 2003 to March 2004.

National Research Council, Water Science and Technology Board, Committee on Assessing and Valuing the Services of Aquatic and Related Terrestrial Ecosystems, National Academy of Sciences, Spring 2002 – Fall, 2004.

Review Committee, Global Development Network Awards, The World Bank, 2000.

Visiting Fellow, Environmental Policy Initiative, Agricultural and Resource Economics Department, Ohio State University, October 11-13, 2000.

Visiting Professor, Department of Agricultural and Resource Economics, University of Maryland, Spring 2000

Member, UK Economic and Social Research Council and Natural Environmental Research Council Panel on Interdisciplinary Research Studentships Awards, 1999-2000. Responsible for reviewing and recommending MPhil/DPhil applications for research awards.

Member, UK Economic and Social Research Council's Politics, Economics and Geography Research College, 1999-2000. Advisor on research policy to the ESRC's Director of Research, Politics, Economics and Geography Team.

Member, UK Department for International Development Task Force on Genetic Use Restricted Technologies (GURTs), 1999. Responsible for contributing to report and recommendations on GURTs and their impact on the developing world.

Scientific Committee, European Association of Environmental and Resource Economists, 1998 to present.

Member, UK Economic and Social Research Council Panel for Evaluating the Centre for Social and Economic Research into the Global Environment, 1998-9. Responsible for recommending on funding and other support to the ESRC General Board.

Invited by the British Council and the Australian Museum Society to participate on a panel of international experts on biodiversity loss in the Earth Alive! Forum, Sydney, Australia, 4-5 September 1997.

Visiting Professor, Department of Agricultural and Resource Economics, University of Maryland, Autumn 1996.

Resource Person and Program Committee Member, Economy and Environment Program for S.E. Asia (EEPSEA), International Development Research Centre, Singapore, 1993-6. Responsible for overseeing a major research programme to fund environmental economics research by South East Asian scholars in the region.

HONORS AND AWARDS

2008 Presidential Award, University of Wyoming.

2007-8 Recipient of the University of Wyoming, College of Business Outstanding Senior Research Award.

2006-7 Recipient of the Flittie Sabbatical Augmentation Award, University of Wyoming (\$12,500).

2006-7 Recipient of the American Heritage Center Research Fellowship (\$2,500).

2005 Aldo Leopold Leadership Program Fellow.

2003-4 Recipient of the University of Wyoming, College of Business Outstanding Senior Research Award.

Listed in Marc Blaug and Howard R. Vane, eds. *Who's Who in Economics* 4th ed., Edward Elgar, London, 2003, pp. 50-1.

Invited to present the 2003 Benjamin H. Hibbard Memorial Lecture, Department of Agricultural & Applied Economics, University of Wisconsin, Madison, Wisconsin, April 4, 2003.

Invited Keynote Speaker, Conference of Australian Economists, Glenelg, South Australia, October 1-3, 2002.

Invited to present the 2002 Joseph Fisher Lecture in Economics, Adelaide University, Adelaide, Australia, September 30, 2002.

International Travel Grant Award, University of Wyoming, Spring 2002. Award used to attend the Responses Working Group Workshop, Millennium Ecosystem Assessment of the United Nations, New Delhi, India, May 2002.

Invited to present the 1998 Annual Lecture on Natural Resource Conservation and Management in Africa, United Nations University and the Institute for Natural Resources in Africa, Accra, Ghana, November 1998.

Gambrinus Giuseppe Mazzotti Literary Prize, Special Jury's Prize, for *Blueprint for a Green Economy*, 1991.

Honorary Research Fellow, Economics Dept., University College London, 1991-94.

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS (Selected Presentations since 1996)

Barbier, E.B. 2009. "Ecosystems as Natural Assets." Keynote Address, 11th Annual BioEcon Conference on "Economic Instruments to Enhance the Conservation and Sustainable Use of Biodiversity", Centro Culturale Don Orione Artigianelli, Venice, Italy, September 21-22.

Barbier, E.B. 2009. "A Monopolistic Competition Economic Model of the Horticultural Industry with a Risk of Harmful Plant Invasion." Paper presented at the 17th Annual Conference of European Association of Environmental and Resource Economists, Free University, Amsterdam, the Netherlands, June 24-27.

Barbier, E.B. 2009. "Financing Climate Mitigation and Adaptation at COP 15: Introductory Remarks." Invited presentation at the CC9 Climate Conference Green Technology and Finance: Striking a Fair Climate Change Agreement, Hafslund Manor, Sarpsborg, Norway, June 4-5.

Barbier, E.B. 2009. "A Global Green New Deal." Keynote Address, European Environment Bureau Conference Finding the New Path: A More Strategic Role for Sustainable Consumption and Production, Brussels, Belgium, May 27.

Barbier, E.B. 2009. "Assigning Valuation of Coastal Habitats with Non-Linear Ecological Functions: The Example of Mangroves." Invited presentation at the Symposium Valuable and Vulnerable: Managing Ecosystem Services at the Land-Sea Interface. International Marine Conservation Congress, George Mason University, Fairfax, VA, May 19-24.

Barbier, E.B. 2009. "Corruption, Poverty and Tropical Land Use". Keynote Address, International Society of Tropical Foresters Annual Conference Conflict and Cooperation: Tools for Governing Tropical Forests, Yale University, New Haven, CT, March 27-29.

Barbier, E.B. 2009. "A Global Green New Deal." Keynote Address. World Bank Environment Day. The World Bank, Washington DC, March 23.

Barbier, E.B. 2008. "Natural Resource Scarcity, Ecological Scarcity and Sustainable Development 20 Years On: What Have We Learned That Is Relevant to Developing Countries?" Plenary presentation at the Pre-Conference on Environment and Development, University of Gothenburg, Sweden, June 25.

Barbier, E.B. 2008. "Corruption, Trade and the Political Economy of Resource-Based Development: A Comparison of Africa and Asia." Paper presented at the 16th Annual Conference of European Association of Environmental and Resource Economists, University of Gothenburg, Sweden, June 25-28.

Barbier, E.B. 2008. "Ecological Scarcity: The Global Economic Challenge for the 21st Century." President Speaker Series, University of Wyoming, Casper April 8 and Laramie April 17.

Barbier, E.B. 2008. "Ecological Scarcity and Sustainability: Key Economic Challenges for the 21st Century." Invited Speaker, Ecology Seminar Series, Penn State University, State College, PA, April 11.

Barbier, E.B. 2007. "Do Mangroves Reduce Expected Storm Damages? Valuing the Storm Protection Service of Coastal Wetlands". Paper presented at the 15th Annual Conference of the European Association of Environmental and Resource Economists, University of Thessaloniki, Greece, June 27-30.

Barbier, E.B. 2007. "To Replant or Not To Replant. Natural Barriers? Perhaps that is the Wrong Question." In Conference on Macromarketing and Development: Building Bridges and Forging Alliances. Washington, D.C., June 2-5, 2007.

Barbier, E.B. "Natural Capital, Resource Dependency and Poverty: Implications for India." Economic Development and Environmental Sustainability: A Dialogue on India. The Initiative for Policy Dialogue (IPD), International Food Policy Research Institute (IFPRI) and National Institute of Urban Affairs (NIUA), New Delhi, India, December 18-19, 2006.

Barbier, E.B. "In the Long Run We Are All Dead: Economics, History and Long-Run Ecological Change." Keynote Address to the Long Term Ecological Research Network 2006 All-Scientists Meeting, September 20-23, Estes Park, Colorado.

Barbier, E.B. "Valuing Ecosystem Services as Productive Inputs." Paper prepared for the 43rd Panel Meeting of *Economic Policy* in Vienna, Austria, 21-22 April 2006.

Barbier, E.B., "Water Scarcity and Markets." Presentation for "The Culture of Water. Watering the West: the Evolution of Ownership, Control and Conflict in the West." Buffalo Bill Historical Center, Cody, Wyoming, October 13-15, 2005.

Barbier, E.B., "Sustainable Resource-Based Development in Asia and the Pacific: Overcoming the Problem of 'Dualism within Dualism'". Paper for the Eminent Environmental Economists Symposium The Fifth Ministerial Conference on Environment and Development in Asia and the Pacific 2005 "Achieving Environmentally Sustainable Growth", Seoul, South Korea, March 26, 2005.

Barbier, E.B., "Mangrove Dependency and the Livelihoods of Coastal Communities in Thailand." Keynote paper presented at the International Conference on Effective Land-Water Interface Management for Solving Agriculture-Fishery-Aquaculture Conflicts in Coastal Zones, Bac Lieu, Vietnam, March 1-3, 2005.

Barbier, E.B., "Explaining Agricultural Land Expansion and Deforestation in Developing Countries." Paper presented at the American Agricultural Economics Association Annual Meeting, Denver, Colorado, August 1-4, 2004.

Barbier, E.B., "Frontier Expansion and Resource-Based Development with Spillovers." Paper presented at the NBER Summer Institute 2004 Workshop on Public Policy and the Environment, Cambridge, Massachusetts, August 2-3, 2004.

Barbier, E.B. and Chaudhry, A. "Water and Growth in an Agricultural Economy." Paper presented at the 13th Annual Conference of the European Association of Environmental and Resource Economists, Budapest, Hungary, June 25-28, 2004.

Barbier, E.B. "Natural Capital, Resource Dependency and Poverty in Developing Countries: The Problem of 'Dualism within Dualism'". Paper presented at the IPD Task Force Meeting "Environmental Economics and Sustainable Development", Columbia University, New York, October 10-11, 2003.

Barbier, E.B. "Frontier Expansion and Economic Development." Paper presented at the Session on "Environmental Economics" at the 78th Western Economic Association International Annual Conference, Denver, CO, July 12, 2003.

Bulte, E. and Barbier, E.B. "Trade, Renewable Resources and Biodiversity." Plenary presentation (by E. Bulte) at the 12th Annual Conference of the European Association of Environmental and Resource Economists. Bilbao, Spain, June 28-30, 2003.

Barbier, E.B. "Water and Economic Growth." Paper presented at the workshop on "Water and Poverty", InterAmerican Development Bank and CIES, University of Santiago, Santiago, Chile, May 22-23, 2003 and at the 12th Annual Conference of the European Association of Environmental and Resource Economists. Bilbao, Spain, June 28-30, 2003.

Barbier, E.B. "Frontiers and Sustainable Economic Development," Benjamin H. Hibbard Memorial Lecture, Department of Agricultural & Applied Economics, University of Wisconsin, Madison, WI, April 4, 2003.

Barbier, E.B. "Does Water Scarcity Constrain Growth?", Keynote Address, Conference of Australian Economists, Glenelg, South Australia, October 1-3, 2002

Barbier, E.B. "The Role of Natural Resources in Economic Development", 2002 Joseph Fisher Lecture in Economics, Adelaide University, Adelaide, Australia, September 30, 2002.

Barbier, E.B. and Damania, R., "Lobbying, Trade and Resource Conversion" Paper presented at the 2nd World Congress of Environmental and Resource Economists, Monterey, CA, June 24-27 2002 and at the Workshop on "Trade, Biodiversity and Resources", University of Tilburg, the Netherlands, September 5-6, 2002.

Barbier, E.B., "Explaining Agricultural Expansion, Resource Booms and Growth in Latin America". Paper presented at the 5th Gosnell Lecture Series, Department of Economics, Rochester Institute of Technology, Rochester, NY, February 8, 2002.

Barbier, E.B., "Existing Agricultural Expansion, Resource Boons and Growth in Latin America". Paper presented at the Toronto Conference on National Capital, Poverty and Development, The Munck Center for International Studies, University of Toronto, Canada, September 5 - 8, 2001.

Barbier, E.B., "Habitat-Fishery Linkages and Mangrove Loss in Thailand". Paper presented at the Session on "Coastal Ecosystems, Western Economics" at the 76th Western Economics Association International Annual Conference, San Francisco, CA, July 7, 2001 and at the Colorado University Environmental and Resource Economics Workshop 2001, Breckenridge, Colorado, July 16-17, 2001.

Barbier, E.B. and Cox, M., "Does Economic Development Lead to Mangrove Loss?: A Cross-Country Analysis". Paper presented at the 11th Annual Conference of the European Association of Environmental and Resource Economists, University of Southampton, June 28-30, 2001 and at the Session on Ecosystem, Conservation and the Environment, Western Economic Association International Meetings, San Francisco, July 7, 2001.

Barbier, E.B., "Agricultural Land Expansion, Resource Booms and Growth: Implications for Policy in Latin America". Paper presented at the Workshop on Growth and the Environment: Macro-Economic Perspectives. Inter-American Development Bank, Washington DC, May 29, 2001.

Barbier, E.B., "The Economics of Tropical Deforestation and Land Use. What Can We Learn from Cross-Country Analysis?" Plenary paper presented at the Second International Conference On Environment and Development, The Royal Swedish Academy Of Sciences, Stockholm, September 6th-8th 2000.

Barbier, E.B., "Institutional Constraints and Deforestation: An Application to Mexico". Paper presented at the 2000 Royal Economic Society/Scottish Economic Society Conference, St. Andrews, Scotland, July 10-13, 2000.

Barbier, E.B., "Institutional Constraints and Deforestation: An Empirical Application." Paper presented at the Tenth Annual Conference of the European Association of Environmental and Resource Economists, University of Crete, June 30-July 2, 2000.

Invited lecturer, Foundation for Science and Technology and the Royal Society Meeting, "Biodiversity: The Public, Government and Industry: Who Holds the Keys", Royal Society, London, 1 December 1999.

Invited speaker, GCTE Focus 3 Conference: Global Change and Global Challenges, University of Reading, UK, 20-23 September 1999.

Invited speaker, American Agricultural Economics Society International and Industry Preconference on "Agroindustry, Globalization, and International Development", Nashville, Tennessee, 6-7 August 1999.

Invited speaker, Kiel Week Conference 1999: The Economics of International Environmental Problems, The Kiel Institute of World Economics, Kiel, Germany, 21-22 June 1999.

Invited speaker, Resource Policy Consortium (World Bank, US Environmental Protection Agency, US Department of Agriculture, etc.) Panel on "Environmental Project Evaluation and Outcomes Assessment", World Congress of Environmental and Resource Economists, Venice, 25-28 June 1998.

Invited speaker, Annual Bank Conference on Development Economics, The World Bank, Washington DC, 30 April-1 May 1997.

Invited speaker, The Royal Society Discussion "Land Resources: On the Edge of the Malthusian Precipice?" The Royal Society, London, 4-5 December 1996.

COMMITTEES (UNIVERSITY OF WYOMING)

Bugas Travel Award Committee, Department of Economics & Finance, 2005 -

Crocker Award Committee, Department of Economics & Finance, 2005 -

University of Wyoming's EPSCOR Ecology Advisory Committee, 2004 – 2008

University Tenure and Promotion Committee, 2007 - 2008

William D. Ruckelshaus Institute, Water Working Group, 2006 - 2008

Faculty Group for Developing University of Wyoming's Energy Institute Proposal, 2005 – 2006

University Research Committee, 2003 – 2006

University Tenure and Promotion Committee, 2002 –2004.

College of Business Dean Search Committee, 2002-2003.

Agricultural Extension Service Competitive Grants Review Committee, 2000-2002.

Last edited: 10/15/2009 12:09 PM