

EDWARD B. BARBIER
CURRICULUM VITAE

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ADDRESS

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EDUCATION

1986	Ph.D. Economics, Birkbeck College, University of London, London, England
1980	M.Sc. Economics, 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

2017-	Professor, Department of Economics and Senior Scholar, School of Global Environmental Sustainability, Colorado State University
2016-2017	Chair, Department of Economics, University of Wyoming
2000-2017	John S. Bugas Professor of Economics, Department of Economics, 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/REPORTS (Since 2000)

2016-2017. "Reconciling Inclusive Wealth and Piketty: Natural Capital and Wealth in the 21st Century", Chapter for *2017 Inclusive Wealth Report*, United Nations Environment Programme (UNEP), Nairobi and the Urban Institute, Kyushu University, Fukuoka, Japan.

2014-2015. "Climate Change Impacts on Poverty in Coastal Ecosystems". Background Paper, Climate Change and Poverty Report *Shock Waves: Managing the Impacts of Climate Change on Poverty*, The World Bank, Washington, D.C., 2016.

April-August 2014. "Challenges to Ecosystem Service Valuation for Wealth Accounting", Chapter for *2014 Inclusive Wealth Report*, United Nations University International Human Dimensions Programme on Global Environmental Change (IHDP) and United Nations Environment Programme (UNEP), Bonn, Germany.

2013-2014, co-authored with Jacob P. Hochard, "Land Degradation, Less Favored Lands and the Rural Poor: A Spatial and Economic Analysis." A Report for the Economics of Land Degradation Initiative, Bonn, Germany. Available at www.eld-initiative.org

January-April 2013. "A Report on Water and Green Growth with a Focus on Biodiversity and Water Inter-Linkages", Organization for Economic Cooperation and Development (OECD), Paris, France.

September 2012. "External Review of Chapter 3 of the African Development Report (ADR) 2012." African Development Bank, Tunis, Tunisia.

July-September 2012. Research and preparation of a paper, co-authored with A. Chaudhry, "Urban Growth and Water", for presentation at the technical workshop, "The Importance of Water to the U.S. Economy: Environmental Protection Agency Office of Water, Washington, D.C., September 19, 2012

2011-2012. "Natural Capital, Ecological Scarcity and Rural Poverty", paper for the Green Growth Knowledge Platform Inaugural Conference, Mexico City, Mexico, and for the Green Development Program, DECRG: Environment & Energy, The World Bank, Washington DC.

2011-2012. "Ecosystem Services and Wealth Accounting", Chapter for *2012 Inclusive Wealth Report*, United Nations University International Human Dimensions Programme on Global Environmental Change (IHDP) and United Nations Environment Programme (UNEP), Bonn, Germany.

2011. Contributor, United Nations Environment Programme (UNEP). *Towards a Green Economy: Pathways to Sustainability and Poverty Eradication*, www.unep.org/greeneconomy on behalf of the Green Economy Initiative and the Division of Technology, Industry and Economics, UNEP, 2010-2011, Geneva, Switzerland.

2010-2011. "Linking green stimulus, energy efficiency and technological innovation: The need for complementary policies." Paper prepared for the European Commission DG 1 (External Relations) Project, "Transatlantic Opportunities for Meeting Global Challenges in Energy Efficiency and Low Carbon Technologies", Brussels, Belgium.

2008-2009. “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, Geneva, Switzerland.

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

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

CURRENT JOB DESCRIPTION

30% Teaching 60% Research 10% Service, Outreach and Engagement

RESEARCH INTERESTS:

Natural resources and economic development; economics and ecology; trade and natural resources.

TEACHING INTERESTS:

Environmental and resource economics; natural resources and economic development; development economics.

TEACHING (CSU)

<u>Year</u>	<u>Semester</u>	<u>Course Number and Title</u>
2017	Fall	ECON 792E Natural Resources & Economic Development
2018	Spring	ECON 741 Advanced Environmental Economics

PUBLICATIONS

Refereed Journal Articles:

Barbier, E.B. “Natural Capital Depreciation in Sub-Saharan Africa: The Role of Sovereign Wealth Funds”, *Ghanaian Journal of Economics*, Accepted.

Mason, C.F., V. Umanskaya and E.B. Barbier. “Trade, Transboundary Pollution, and Foreign Lobbying.” *Environmental and Resource Economics*, Published online 21 March 2017 DOI 10.1007/s10640-017-0118-7. <https://link.springer.com/article/10.1007/s10640-017-0118-7>

Barbier, E.B., J.C. Burgess and T.J. Dean. 2018. “Response – Conservation accord.” *Science* 360 (6394): 1196-1197. DOI: 10.1126/science.aau1746

Hallegatte, S., M. Fay and E.B. Barbier. 2018. "Poverty and climate change: Introduction." *Environment and Development Economics* 23, Special Issue 3 (Poverty and Climate Change):217-233. <https://doi.org/10.1017/S1355770X18000141>

Barbier, E.B. and J.P. Hochard. 2018. "Poverty, Rural Population Distribution and Climate Change." *Environment and Development Economics* 23, Special Issue 3 (Poverty and Climate Change):234-256. <https://doi.org/10.1017/S1355770X17000353>

Barbier, E.B., J.C. Burgess and T.J. Dean. 2018. “How to pay for saving biodiversity.” *Science* 360 (6388): 486-488. DOI: 10.1126/science.aar3454

Barbier, E.B. and J.P. Hochard. 2018. “The Impacts of Climate Change on the Poor in Disadvantaged Regions” *Review of Environmental Economics and Policy* 12(1):26-47. <https://doi.org/10.1093/reep/rex023>

Barbier, E.B. and J.C. Burgess. 2018. “Policies to support environmental risk management in investment decisions.” *International Journal of Global Environmental Issues* 17(2/3):117-129.

Eskander, S.M., E.B. Barbier and B. Gilbert. 2018. “Fishing and Non-Fishing Income Decisions: The Role of Human Capital and Family Structure.” *Land Economics* 94 (1):114-136.

Barbier, E.B. and J.C. Burgess. 2017. “Innovative Corporate Initiatives to Reduce Climate Risk: Lessons from East Asia.” *Sustainability*. 10(1):13 doi:10.3390/su10010013 <http://www.mdpi.com/2071-1050/10/1/13>

Barbier, E.B. M. Czajkowski and N. Hanley. 2017. “Is the income elasticity of the willingness to pay for pollution control constant?” *Environmental and Resource Economics* 68:663-682.

Barbier, E.B. and J.C. Burgess. 2017. “Depletion of the global carbon budget: A user cost approach.” *Environment and Development Economics* 22(6):658-673.

Barbier, E.B. and J.C. Burgess. 2017. “Natural Resource Economics, Planetary Boundaries and Strong Sustainability”. *Sustainability*. 9(10): 1858. doi:10.3390/su9101858 <http://www.mdpi.com/2071-1050/9/10/1858>

Barbier, E.B. and J.C. Burgess. 2017. “The Sustainable Development Goals and the Systems Approach to Sustainability.” *Economics* (2017-28):1–22. <http://dx.doi.org/10.5018/economics-ejournal.ja.2017-28>

Hochard, J.P. and E.B. Barbier. 2017. “Market Accessibility and Economic Growth: Insights from a New Dimension of Inequality.” *World Development* 97:279-297

- Carrasco, L.R., T.P.L. Nghiem, Z. Chen, E.B. Barbier. 2017. "Unsustainable development pathways caused by tropical deforestation." *Science Advances* 3(7), e1602602
<http://advances.sciencemag.org/content/advances/3/7/e1602602.full.pdf>
- Barbier, E.B. 2017. "Marine ecosystem services." *Current Biology* 27:R507-R510.
- Barbier, E.B. 2017. "The Economics of Aquatic Ecosystems: An Introduction to the Special Issue." *Water Economics and Policy* 3(2) 1702002 (6 pages).
<http://www.worldscientific.com/doi/abs/10.1142/S2382624X17020027>
- Hungate, B.A. E.B. Barbier, A.W. Ando, S.P. Marks, P.B. Reich, N. van Gestel, G.D. Tilman, J.M.H. Knops, D.U. Hooper, B.J. Butterfield and B.J. Cardinale. 2017. "The economic value of grassland species for carbon storage." *Science Advances* 3(4), e1601880.
<http://advances.sciencemag.org/content/advances/3/4/e1601880.full.pdf>
- Barbier, E.B. and J.C. Burgess. 2017. "Economic Principles for 'Spaceship Earth'". *Resources* 194, Spring. <http://www.rff.org/research/publications/economic-principles-spaceship-earth>
- Barbier, E.B., P. Delacote and J. Wolfersberger. 2017. "The Economic Analysis of the Forest Transition: A Review." *Journal of Forest Economics* 27:10-17.
- Eskander, S.M. and E.B. Barbier. 2017. "Tenure Security, Human Capital and Soil Conservation in an Overlapping Generation Rural Economy." *Ecological Economics* 135:176-185.
- Moreno-Mateos, D., E.B. Barbier, P. Jones, H. Jones, J. Aronson, J. López-López, M. McCrackin, P. Meli, D. Montoya, and J. Rey Benayas. 2017. "Anthropogenic ecosystem disturbance and the recovery debt". *Nature Communications* 8:14163, doi:10.1038/ncomms14163.
- Barbier, E.B. 2017. "Natural Capital and Wealth in the 21st Century." *Eastern Economic Journal* 43(3):391-405. <http://link.springer.com/article/10.1057/s41302-016-0013-x>
- Barbier, E.B. 2016. "Building the Green Economy." *Canadian Public Policy* 42 Supplement 1:S1-S9.
- Mahmud, S. and E.B. Barbier. 2016. "Are private defensive expenditures against storm damages affected by public programs and natural barriers? Evidence from the coastal areas of Bangladesh." *Environment and Development Economics* 21:767-788.
- Nordlund, L.M., E.W. Koch, E.B. Barbier, and J. Creed. 2016. "Seagrass Ecosystem Services and their Variability across Genera and Geographical Regions." *PLOS ONE* 11(10): e0163091.
doi:10.1371/journal.pone.0163091
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0163091>
- Barbier, E.B. 2016. "Sustainability and Development." *Annual Review of Resource Economics* 8:261-280.
- Barbier, E.B. 2016. "Is Green Growth Relevant for Poor Economies?" *Resource and Energy Economics* 45:178-191.
- Barbier, E.B. 2016. "The Protective Service of Mangrove Ecosystems: A Review of Valuation Methods." *Marine Pollution Bulletin* 109:676-681.
- Barbier, E.B. and J.P. Hochard. 2016. "Does land degradation increase poverty in developing countries?" *PLOS ONE* 11(5): e0152973. doi:10.1371/journal.pone.0152973
<http://dx.doi.org/10.1371/journal.pone.0152973>

- Barbier, E.B. 2016. "The Protective Value of Estuarine and Coastal Ecosystem Services in a Wealth Accounting Framework." *Environmental and Resource Economics* 64:37-58.
- Kennedy, C.J. and E.B. Barbier. 2016. "The economic value of freshwater inputs to an estuarine fishery." *Water Resources and Economics* 13:46-59
- Barbier, E.B., R.E. López and J.P. Hochard. 2016. "Debt, Poverty and Resource Management in a Rural Smallholder Economy." *Environmental and Resource Economics* 63:411-427. **2017 EAERE Award for outstanding publication in the journal *Environmental and Resource Economics*.**
<http://www.eaere.org/content/award-outstanding-publication-ere>
- Barbier, E.B. 2015. "Climate change impacts on rural poverty in low-elevation coastal zones." *Estuarine, Coastal and Shelf Science* 165:A1-A13.
- Barbier, E.B. 2015. "Overcoming Environmental Degradation and Wealth Inequality in the Asia-Pacific Region." *The Asia Pacific Journal* 13(4):No.1. Available at http://japanfocus.org/-Edward_B_-_Barbier/4397/article.html
- Dasgupta, P., A. Duraiappah, S. Managi, E.B. Barbier, R. Collins, B. Fraumeni, H. Gundimeda, G. Liu and K.J. Mumford. 2015. "How to measure sustainable progress." *Science* 350:748.
- Letourneau, D.K., A.W. Ando, J. Jedlicka, A. Narwani and E.B. Barbier. 2015. "Simple-but-Sound Methods for Estimating the Value of Changes in Biodiversity for Biological Pest Control in Agriculture." *Ecological Economics* 120:215-225.
- Barbier, E.B. 2015. "Are There Limits to Green Growth?" *World Economics* 16(3):163-192.
- Barbier, E.B. and A. Tesfaw. 2015. "Explaining Forest Transitions: The Role of Governance." *Ecological Economics* 119:252-261
- Barbier, E.B. 2015. "Hurricane Katrina's lessons for the world." *Nature* 524:285-287
- Mason, C.F., E.B. Barbier and V.I. Umanskaya. 2015. "On the Strategic Use of Border Tax Adjustments as a Second-Best Climate Policy Measure." *Environment and Development Economics* 20(4):539-560.
- Barbier, E.B. 2015. "Policies to Promote Green Economy Innovation in East Asia and North America." *STI Policy Review* 6(1):54-69.
- Barbier, E.B. 2015. "Valuing the Storm Protection Service of Estuarine and Coastal Ecosystems." *Ecosystem Services* 11:32-38.
- Kennedy, C.J. and E.B. Barbier. 2015. "Renewable resource harvesting under correlated biological and economic uncertainties: implications for optimal and second-best management." *Environmental and Resource Economics* 60:371-393. **Commendation for EAERE Award for outstanding publication in the journal *Environmental and Resource Economics*, 2015.**
- Barbier, E.B. 2014. "Account for depreciation of natural capital." *Nature* 515:32-33.
- Gwatipedza, J. and E.B. Barbier. 2014. "Environmental Regulation of a Global Pollution Externality in a Bilateral Trade Framework: The Case of Global Warming, China and the US." *Economics* 8 (2014-30).
<http://dx.doi.org/10.5018/economics-ejournal.ja.2014-30>
- Barbier, E.B. and A.M. Chaudhry. 2014. "Urban Growth and Water." *Water Resources and Economics*

6:1-17.

Barbier, E.B. 2014. "A global strategy for protecting vulnerable coastal populations." *Science* 345:1250-1251.

Barbier, E.B. 2014. "Climate change mitigation policies and poverty." *WIREs Climate Change* 5:483-491 doi: 10.1002/wcc.281.

Barbier, E.B. and K.D. Lee. 2014. "Economics of the Marine Seascape." *International Review of Environmental and Resource Economics*. 7:35-65.

Barbier, E.B. 2014. "The challenges of environment and development economics." *Environment and Development Economics* 19:287-290.

Barbier, E.B. 2014. "Structural change, marginal land and economic development in Latin America and the Caribbean" *Latin American Economic Review* 23(3):1-29, DOI 10.1007/s40503-014-0003-5.

Barbier, E.B. and B. Enchelmeyer. 2014. "Valuing the Storm Surge Protection Service of US Gulf Coast Wetlands." *Journal of Environmental Economics and Policy*. 3(2):167-185.

Barbier, E.B., D. Moreno-Mateos, A.D. Rogers, J. Aronson, L. Pendleton, R. Danovaro, L. Henry, T. Morato, J. Ardron and C.L. Van Dover. 2014. "Protect the deep sea." *Nature* 505:475-477.

Van Dover, C.L., J. Aronson, L. Pendleton, S. Smith, S. Arnaud-Haond, D. Moreno-Mateos, E. Barbier, D. Billet, K. Bowers, R. Danovaro, A. Edwards, S. Kellert, T. Morato, E. Pollard, A. Rogers and R. Warner. 2014. "Ecological Restoration in the Deep Sea: Desiderata." *Marine Policy* 44:98-106.

Koch, A., A. McBratney, M. Adams, D. Field, R. Hill, J. Crawford, B. Minasny, R. Lal, L. Abbott, A. O'Donnell, D. Angers, J. Baldock, E.B. Barbier, D. Binkley, W. Parton, D.H. Wall, M. Bird, J. Bouma, C. Chenu, C. Butler Flora, K. Goulding, S. Grunwald, J. Hempel, J. Jastrow, J. Lehmann, K. Lorenz, C.L. Morgan, C.W. Rice, D. Whitehead, I. Young and M. Zimmermann. 2013. "Soil Security: Solving the Global Soil Crisis." *Global Policy* 4(4):434-441.

Kennedy, C.J. and E.B. Barbier. 2013. "Renewable Resource Management with Environmental Prediction: The Importance of Structural Specification." *Canadian Journal of Economics* 46(3):1110-1122.

Barbier, E.B. 2013. "Valuing Ecosystem Services for Coastal Wetland Protection and Restoration: Progress and Challenges." *Resources* 2:213-230.

Barbier, E.B. and A. Tesfaw. 2013. "Tenure Constraints and Carbon Forestry in Africa." *American Journal of Agricultural Economics* 95: 964-975.

Chaudhry, A.M. and E.B. Barbier. 2013. "Water and Growth in an Agricultural Economy." *Agricultural Economics* 44:175-189.

Barbier, E.B. 2013. "Wealth Accounting, Ecological Capital and Ecosystem Services." *Environment and Development Economics* 18:133-161.

Barbier, E.B., I.Y. Georgiou, B. Enchelmeyer and D.J. Reed. 2013. "The value of wetlands in protecting southeast Louisiana from hurricane storm surges." *PLOS ONE* 8(3): e58715. doi:10.1371/journal.pone.0058715 <http://www.plosone.org/article/info:doi/10.1371/journal.pone.0058715>
Among the top 10% cited PLOS ONE articles

- Barbier, E.B., D. Knowler, J. Gwatipedza, S. Reichard and A. Ransom-Hodges. 2013. "Implementing Policies to Control Invasive Plant Species." *BioScience* 63:132-138.
- Barbier, E.B. 2012. "The Challenge for Rio+20: Funding." *Resources*, No. 180, pp. 25-29.
- Barbier, E.B. 2012. "Economie verte et développement durable: enjeux de politique économique." ("Green economy and sustainable development: policy challenges." *Reflets et perspectives de la vie économique* 2012 4:97-117.
- Barbier, E.B. 2012. "The Green Economy Post Rio+20." *Science* 338:887-888.
- Barbier, E.B. 2012. "Land Degradation and the Rural Poor". *World Agriculture* 3(2):23-28.
- Barbier, E.B. and A. Tesfaw. 2012. "Can REDD+ save the forest? The role of payments and tenure." *Forests* 3:881-895.
- Barbier, E.B. 2012. "Corruption, Poverty and Tropical Land Use." *Journal of Sustainable Forestry* 31 (4-5):319-339.
- Barbier, E.B. 2012. "A Spatial Model of Coastal Ecosystem Services." *Ecological Economics* 78:70-79.
- Barbier, E.B. 2012. "Scarcity, Frontiers and Development." *The Geographical Journal* 178:110-122.
- Barbier, E.B. 2012. "Can Global Payments for Ecosystem Services Work?" *World Economics* 13:157-172.
- Barbier, E. B. 2012. "Tax 'societal ills' to save the planet." *Nature* 483:30.
- Aswani, S, Christie, P., Muthiga, N., Mahon, R., Primavera, J., Cramer, L., Barbier, E.B., Granek, E. Kennedy, C., Wolanski, E. and Hacker, S. 2012. "The Way Forward with Ecosystem-Based Management in Tropical Contexts: Reconciling with Existing Management Systems." *Marine Policy* 36:1-10.
- Barbier, E.B. 2012. "Progress and Challenges in Valuing Coastal and Marine Ecosystem Services." *Review of Environmental Economics & Policy*. 6(1):1-19.
- Barbier, E.B. 2011. "Wetlands as natural assets." *Hydrological Sciences Journal* 56(8):1360-1373.
- Barbier, E.B. 2011. "Coastal Wetland Restoration and the *Deepwater Horizon* Oil Spill." *Vanderbilt Law Review* 64:1821-1849.
- Bhaduri, A. and E.B. Barbier. 2011. "Water allocation between states in inter-basin water transfer in India." *International Journal of River Basin Management* 9(2):117-127.
- Bhaduri, A., Manna, U., Barbier, E.B. Liebe, J. 2011. "Climate Change and Cooperation in Transboundary Water Sharing: An Application of Stochastic Stackelberg Differential Games in Volta River Basin" *Natural Resource Modeling* 24(4):409-444.
- Barbier, E.B. 2011. "Pricing Nature". *Annual Review of Resource Economics* 3:337-353.
- Barbier, E.B., Gwatipedza, J., Knowler, D. and Reichard, S. 2011. "The North American Horticultural Industry and the Risk of Plant Invasion." *Agricultural Economics* 45:743-759.
- Barbier, E.B. 2011. "The Policy Challenges for Green Economy and Sustainable Economic Development" *Natural Resources Forum* 35:233-245.

- Gedan, K.B., Kirwan, M.L., Wolanski, E., Barbier, E.B., and Silliman, B.R. 2011. "The present and future role of coastal wetland vegetation in protecting shorelines: answering recent challenges to the paradigm." *Climatic Change* 106:7-29.
- Barbier, E.B. 2011. "Transaction costs and the transition to environmentally sustainable development." *Environmental Innovation and Societal Transitions* 1:58-69.
- Barbier, E.B., Hacker, S.D., Kennedy, C., Koch, E.W., Stier, A.C, and Silliman, B.R. 2011. "The Value of Estuarine and Coastal Ecosystem Services." *Ecological Monographs* 81(2):169-183.
- Barbier, E.B. 2011. "Tracking the Sputnik Economy," *The Economists' Voice* Vol. 8 : Iss. 1, Article 9. <http://www.bepress.com/ev/vol8/iss1/art9>
- Barbier, E.B. 2010. "Poverty, development, and environment." *Environment and Development Economics* 15:635-660. **Most read article (#1) in the journal.** <https://www.cambridge.org/core/journals/environment-and-development-economics/most-read>
- Barbier, E.B. 2010. "A Global Green Recovery, the G20 and International STI Cooperation in Clean Energy" *STI Policy Review* 1(3):1-15.
- Barbier, E.B. 2010. "Corruption and the Political Economy of Resource-Based Development: A Comparison of Asia and Sub-Saharan Africa" *Environmental and Resource Economics* 46(4):511-537.
- Barbier, Edward B. 2010. "Toward a Global Green Recovery: The G20 and the Asia-Pacific Region." *The Asia Pacific Journal*, 28-2-1-, July 12, 2010. http://japanfocus.org/-Edward_B_-Barbier/3383
- Barbier, E.B. 2010. "Green Stimulus, Green Recovery and Global Imbalances." *World Economics* 11(2):149-175.
- Barbier, E.B. 2010. "How is the global green new deal going?" *Nature* 464:832-833.
- Rauscher, M. and E.B. Barbier. 2010. "Biodiversity and Geography." *Resource and Energy Economics* 32(2):241-260.
- 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. 2010. "Ecosystem Services as a Common Language for Coastal Ecosystem-Based Management." *Conservation Biology* 24(1):207-216.
- Barbier, E.B. 2010. "Global Governance: the G20 and a Global Green New Deal." *Economics* 4 (2010-2). <http://www.economics-ejournal.org/economics/journalarticles/2010-2>
- Barbier, E.B., Burgess, J.C. and Grainger, A. 2010. "The Forest Transition: Towards a More Comprehensive Theoretical Framework" *Land Use Policy* 27:98-107.
- 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. "Ecosystems as Natural Assets." *Foundations and Trends in Microeconomics* 4(8):611-681

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>

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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.

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CONTRACTS AND GRANTS (Since 2000)

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Barbier, "Land Degradation, Less Favored Lands and the Rural Poor: A Spatial and Economic Analysis." Economics of Land Degradation Initiative and GIZ, 1 August 2013 to 31 May 2014. Total budget: \$106,088.

Barbier, Faculty-Led Research Project on Sustainable Business Practices. "Institutions for sustainable development: introducing climate change into the competing land use framework." College of Business, University of Wyoming, 1 June 2013 to 31 May 2014. Total budget: \$6,000.

Barbier, Cardinale. "Linking biodiversity and ecosystem services: From expert opinion to prediction and application." Theme 2012T-3: Assessment and Modeling of Ecosystem Services, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland, November 2012 to April 2014. Total budget: \$180,000.

Barbier, Teesfaw. "Overcoming Tenurial Constraints to Carbon Forestry Projects in Africa", IFRI/CCAS Project on Emissions, Livelihoods and the Forest Farm Interface, University of Michigan, 2011 to 2012. Total budget: \$5,000.

Barbier, Reed and Georgiou. "Quantifying Ecosystem Services in Coastal Louisiana: A Pilot Study of the Economic Benefits of Wave and Surge Attenuation", 2010 to 2011. Total budget: \$109,933.

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.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Editorial Boards/Editorships:

Editorial Advisory Panel, *Nature Sustainability*, November 2016 – present.

Editorial Advisory Board, *Open Economics*, November 2016 – present.

Editorial Board, *Latin American Economic Review*, March 2013 – present.

Editorial Council, *Environmental Economics and Policy Studies*, September 2010 - present

Scientific Advisory Board, *Environmental and Resource Economics*, September 2008 – 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.

Associate Editor, *Resource & Energy Economics*, December 2011 – January 2013

Editorial Board, *Resource & Energy Economics*, December 2006 – August 2015

Editorial Board, *Land Economics*, October 2006 – October 2012.

Associate Editor, *Frontiers in Ecology and the Environment* (Ecology Society of America), November 2005 – November 2009.

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

Editorial Board, *Conservation Ecology* (Ecological Society of America), 1996 - 2002.

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

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

Other:

Advisory Committee, Partnership for Action on Green Economy, United Nations Environment Programme (UNEP), Geneva, Switzerland, 2013 – present.

Member, Species Survival Commission, World Conservation Union (IUCN), Gland, Switzerland, 2013 – present.

Policy Technical Experts Committee (PTEC), Wealth Accounting and Valuation of Ecosystem Services (WAVES) Global Partnership, The World Bank, Washington, DC. 2012 – present.

Country Representative for the United States at the European Association of Environmental and Resource Economists (EAERE) Council, 2012 – present.

Advisory Board, The Economics of Ecosystems and Biodiversity (TEEB), United Nations Environment Programme, 2008 – present.

Advisory Panel, Guidelines of Coastal and Marine Ecosystem Accounting: Incorporating the Protective Service Values of Coral Reefs and Mangroves in National Wealth Accounts, Wealth Accounting and Valuation of Ecosystem Services (WAVES), The World Bank, Washington DC, 2014 – 2017.

Advisory Board, “Valuing the Resilience Dividend”, Resilience Dividend Project, RAND Corporation and the Rockefeller Foundation, Arlington, VA and New York, NY, 2016 – 2017.

Advisory Committee, Climate Change and Poverty Report, The World Bank, Washington DC, 2014 – 2016.

Gulf of Mexico Research Initiative (GoMRI), Public Health Working Group, 2013 – 2014.

Expert Panel of Diversion Planning and Implementation: Social Impact Assessment Methodology, The Water Institute of the Gulf, Baton Rouge, Louisiana, 2013-2014.

Master Plan Science and Engineering Board, "Louisiana's Comprehensive Master Plan for a Sustainable Coast", Louisiana Office of Coastal Protection and Restoration, October 1, 2010 – March 31, 2012.

Selection Jury, Aldo Leopold Leadership Fellowship Program, Woods Institute for the Environment, Stanford University, 2008 – 2012.

Advisory Board, UK National Ecosystem Assessment (NEA), United Nations Environment Programme (UNEP), World Conservation Monitoring Centre (WCMC), UK, 2009 – 2010.

Member, Environment Economics Task Force, Initiative for Policy Dialogue, Columbia University, 2003 – 2008.

Member, International Council of Science (ICSU) Ad-hoc Scoping Group on Natural and Human-Induced Environmental Hazards, 2005 – 2007.

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

2018 Scholarship Impact Award, Colorado State University

2017 STEPI Fellowship, Science and Technology Policy Institute, Seoul, Republic of Korea.

2017 EAERE Award for Outstanding Publication in the journal *Environmental and Resource Economics*. Barbier, E.B., R.E. López and J.P. Hochard. 2016. "Debt, Poverty and Resource Management in a Rural Smallholder Economy." *Environmental and Resource Economics* 63:411-427.

2016 Commendation for Outstanding Publication in the journal *Environmental and Resource Economics* (Kennedy, C.J. and E.B. Barbier. 2015. "Renewable resource harvesting under correlated biological and economic uncertainties: implications for optimal and second-best management." *Environmental and Resource Economics* 60:371-393, Awarded June 25, 2016).

2015 Association of Environmental and Resource Economists (AERE) Fellow (Awarded June 11, 2016)

2015 13th Annual Patrick Lecture Series Award, Graduate School and Coastal Studies Institute, Louisiana State University, Baton Rouge, Louisiana

2015 STEPI Fellowship, Science and Technology Policy Institute, Seoul, Republic of Korea.

2013-14 Outstanding Senior Research Award, College of Business, University of Wyoming.

2013 Three peer-reviewed journal articles with Professor Barbier as the lead author were selected in an international survey of marine scientists as the top five most influential articles of all time on marine ecosystem services. The articles were first, fourth and fifth respectively on the list. The survey was conducted by the Marine Ecosystem Services Partnership of Duke University, USA. See <http://openchannels.org/literature-library/top-mes>.

2013 Faculty Senate Speaker Award Recipient, University of Wyoming (Fall 2013).

2012-2013 College of Business Advisory Board (COBAB) Faculty Award, University of Wyoming.

2010-11 Outstanding Senior Research Award, College of Business, University of Wyoming,.

2010 STEPI Fellowship, Science and Technology Policy Institute, Seoul, Republic of Korea.

Blueprint for a Green Economy listed as No. 14 in Wayne Visser. 2009. *The Top 50 Sustainability Books*. Greenleaf Publishing, Sheffield, UK, a publication of University of Cambridge's Programme for Sustainability Leadership.

2008-9 As part of the 800th anniversary celebrations of the University of Cambridge and the 20th anniversary of the Cambridge Programme for Industry (CPI), selected as one of the top 50 most influential thinkers on sustainability in the world, with particular reference to *Blueprint for a Green Economy*.

2008 Presidential Award, University of Wyoming.

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

2006-7 Flittie Sabbatical Augmentation Award, University of Wyoming.

2006-7 American Heritage Center Research Fellowship, University of Wyoming.

2005 Aldo Leopold Leadership Program Fellow.

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

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

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

2002 Joseph Fisher Lecture in Economics, Adelaide University, Australia, September 30, 2002.

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.

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

1991-1994. Honorary Research Fellow, Economics Department, University College London.

PAPERS PRESENTED/KEYNOTE ADDRESSES/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

(Selected Presentations since 2000)

Barbier, E.B. "Economics for a Fragile Planet: Rethinking Markets, Institutions and Governance." Keynote Address, Dynamics: Out of the Air, SummerFest 2018: Mission Earth Viewpoint Series, Fort Collins, CO, 10 July 2018.

Barbier, E.B. "Managing Safe Operating Spaces: The Economic and Policy Challenge." Invited Presentation, Thematic Session: Perspectives on Policies for the Anthropocene, 6th World Congress of Environmental and Resource Economists, University of Gothenburg, Sweden, 25-29 June 2018.

Barbier, E.B. "How to Pay for Saving Biodiversity." Invited Presentation, Policy Session: Sustaining the human well-being through addressing policy rebounds and failures for healthy natural capital - Strategies and way forward, University of Gothenburg, Sweden, 25-29 June 2018.

Barbier, E.B. "Scarcity and Safe Operating Spaces: The Example of Natural Forests." Paper presented at the 6th World Congress of Environmental and Resource Economists, University of Gothenburg, Sweden, 25-29 June 2018.

Barbier, E.B. "The Aims and Objectives of Green Transformation in Developing Countries." Keynote Address, Green Transformation and Competitive Advantage: Evidence from Developing Countries. Deutsches Institut für Entwicklungspolitik (DIE, German Development Institute), Bonn, Germany, 18-19 June 2018.

Barbier, E.B. "Nature and Wealth: Overcoming Environmental Scarcity and Inequality." Plenary Address, 16th World Congress of Social Economics, Colorado State University, Fort Collins, CO, 11-13 June 2018.

Barbier, E.B. "Distribution and Trends of Impoverished Rural Populations Living on Arid and Semi-Arid Agricultural Lands." UN Convention to Combat Desertification Scoping Meeting for the 2nd edition of the UNCCD's Global Land Outlook (GLO2), New York, NY, 16-17 May 2018.

Barbier, E.B. “Land Degradation and Poverty.” UN-DESA Division for Sustainable Development Goals Expert Group Meeting on Sustainable Development Goal 15: Progress and Prospects, New York, NY, 14-15 May 2018.

Barbier, E.B. “Institutional Constraints and the Forest Transition in Tropical Developing Countries.” Paper presented at the 85th International Atlantic Economic Conference, London, United Kingdom, 14-17 March 2018.

Barbier, E.B. “Nature and Wealth: Overcoming Environmental Scarcity and Inequality.” Invited Presentation, Liberal Arts Development Council, College of Liberal Arts, Colorado State University, Fort Collins, CO, November 3, 2017.

Barbier, E.B. “Green Growth and Innovation” Invited Presentation, External Advisory Board Meeting, School of Global Environmental Sustainability, Colorado State University, Fort Collins, CO, October 25, 2017.

Barbier, E.B. “Preserving Biodiversity: Perspectives from Economics, Health, Food, Water, and Energy.” Panel, Global Biodiversity Summit, Global Biodiversity Center, Colorado State University, Fort Collins, CO, October 12, 2017.

Barbier, E.B. “Valuing the Environment as Input to Estimate Ecosystem Services: What Have We Learned?” Invited AAEA Session “Where are We Headed on Ecosystem Service Valuation.” 2017 American Agricultural Economics Association Meeting, Chicago, IL, July 30-August 1, 2017.

Barbier, E.B. “Economic Valuation of Coastal Wetlands and Carbon Storage.” Invited Presentation at the National Academies of Science, Engineering and Medicine Workshop on Blue Carbon, Woods Hole, MA, July 25, 2017.

Barbier, E.B. “The Dynamics of Poverty-Environment Traps.” Paper presented at the 23rd Annual Conference of the European Association of Environmental and Resource Economists, University of Athens, Greece, June 29-July 1, 2017.

Barbier, E.B. “Depletion of the Global Carbon Budget: A User Cost Approach.” Paper presented at the Association of Environmental and Resource Economists Annual Summer Conference, Pittsburgh, PA, May 31-June 2, 2017.

Barbier, E.B. “Progress and Advancement in Economic Valuation of Ecosystem Services.” Keynote Address, Expert Workshop on The Economics and Financing of Restoration Opportunities, World Resources Institute, Washington, D.C., March 31, 2017.

Barbier, E.B. “Natural Capital and Wealth in the 21st Century.” Seminar, Department of Economics, Arizona State University, Tempe, AZ, March 3, 2017.

Barbier, E.B. “Nature and Wealth: Overcoming Environmental Scarcity and Inequality.” Invited Public Address, Global Institute of Sustainability, Arizona State University, Tempe, AZ, March 2, 2017.

Barbier, E.B. “Natural Capital and Wealth in the 21st Century.” Seminar, Department of Economics, Colorado State University, Fort Collins, CO., February 16, 2017.

Barbier, E.B. “The Dynamics of Poverty-Environment Traps.” Applied Micro Seminar, Development Research Group, World Bank, Washington, D.C., December 14, 2016.

Barbier, E.B. “Advances and Frontiers at the Intersection of Environmental and Development Economics.” Plenary Address, Heartland Environmental and Resource Economics Workshop, University of Illinois, Champaign-Urbana, November 11-13, 2016.

Barbier, E.B. “Building the Green Economy: Making Sustainability Competitive through Policy and Innovation.” Keynote Address. Green Economy Konferenz 2016, Berlin, Germany 2 November 2016.

Barbier, E.B. “Exploiting Natural Wealth for Sustainable Economic Development: Rethinking the Role of Sovereign Wealth Funds.” Stroock Sovereign Wealth Forum, Jackson Hole, Wyoming, August 23-24, 2016.

Barbier, E.B. Comments on “Heterogeneous Wealth Dynamics: On the Roles of Risk and Ability” (Santos and Barrett) and “Agro-Ecosystem Productivity and the Dynamic Response to Shocks” (Chavas). National Bureau of Economic Research (NBER) Conference “The Economics of Asset Accumulation and Poverty Traps”, Washington, D.C., June 28-29, 2016

Barbier, E.B. “Sustainability and Development” Paper presented at the 22nd Annual Conference of the European Association of Environmental and Resource Economists, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, June 22-25, 2016.

Barbier, E.B. “Is Green Growth Relevant for Developing Economies?” GGKP Policy Session on Inclusive Green Growth, The 22nd Annual Conference of the European Association of Environmental and Resource Economists, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, June 22-25, 2016.

Barbier, E.B. “Nature and Wealth: Overcoming Environmental Scarcity and Inequality.” Grantham Research Institute for Climate Change and the Environment, The London School of Economics, London, UK, June 20, 2016.

Barbier, E.B. “Nature and Wealth: Overcoming Environmental Scarcity and Inequality.” Guest Lecture, Discovery Themes, Ohio State University, Columbus, Ohio, USA, November 6, 2015

Barbier, E.B. “The role of geographic poverty-environment traps” Policy Session: Climate Change and Poverty, The 21st Annual Conference of the European Association of Environmental and Resource Economists, University of Helsinki, Helsinki, Finland, 24-27 June 2015.

Barbier, E.B. “Is the income elasticity of the willingness to pay for pollution control constant?” Paper presented at the 21st Annual Conference of the European Association of Environmental and Resource Economists, University of Helsinki, Helsinki, Finland, 24-27 June 2015.

Barbier, E.B. “The Protective Value of Estuarine and Coastal Ecosystem Services in a Wealth Accounting Framework.” Nova School of Business and Economics, University of Lisbon, Lisbon, Portugal, April 24, 2015.

Barbier, E.B. “Valuing the Storm Protection Service of Estuarine and Coastal Wetlands.” 13th Annual Patrick Lecture Series, Louisiana State University, Baton Rouge, LA, April 14, 2015.

Barbier, E.B. “Living on the Edge: Protecting and Restoring Coastal Habitats.” 13th Annual Patrick Lecture Series, Louisiana State University, Baton Rouge, LA, April 13, 2015.

Barbier, E.B. “Quantifying and Valuing Ecosystem Services for Coastal Management.” Invited Address, Royal Swedish Academy of Sciences 275th Anniversary Symposium on Maritime Research, University of Gothenburg, Sweden. February 17-18, 2015.

Barbier, E.B. "Climate Change Impacts on Rural Poverty in Low-Elevation Coastal Zones." Conference on Climate Change and Poverty. The World Bank, Washington, D.C., February 9-10, 2015.

Barbier, E.B. "Knowledge Generation for Green Growth." Keynote Address. 2015 Green Growth Knowledge Platform Knowledge Partners Workshop. Ca' Foscari University of Venice, Italy. January 28, 2015

Barbier, E.B. "Is green growth relevant for poor economies?" Keynote Address. 3rd International Conference on Environment and Natural Resource Management in Developing and Transition Economies. CERDI, University of Auvergne, Clermont-Ferrand, France. October 8-10, 2014.

Barbier, E.B. "Valuing ecosystem services for coastal protection and restoration: progress and challenges." Keynote Address. Gulf Research Program of the National Academies. Opportunity Analysis Workshop on Environmental Monitoring. New Orleans, LA. September 3-4, 2014.

Barbier, E.B. "Quantifying and valuing coastal ecosystem services to assist policy decisions." Symposium on Operationalizing the Concept of Ecosystem Services: Interdisciplinary Research and Synthesis. 99th Ecological Society of America Meeting, Sacramento, CA. August 10-15, 2014.

Barbier, E.B. "The Protective Value of Estuarine and Coastal Ecosystem Services in a Wealth Accounting Framework." Paper presented at the Thematic Session "Valuation Research on Ecosystem Services for Improved National Accounting." World Congress of Environmental and Resource Economists (WCERE), Istanbul, Turkey, June 28-July 2, 2014.

Barbier, E.B. "Explaining Forest Transitions: The Role of Governance." Paper presented at the Thematic Session "The Economic Analysis of the Forest Transition." World Congress of Environmental and Resource Economists (WCERE), Istanbul, Turkey, June 28-July 2, 2014.

Barbier, E.B. "Ecosystem Services and Tools for Wetland Management." Keynote Address, 1st International Symposium on Natural Resource Management. "Understanding Wetlands: A Key Issue in the Transition to a Sustainable Economy." Palma de Mallorca, Spain, June 19-21, 2014.

Barbier, E.B. "Building the Green Economy." Keynote Address, Big Ideas for Sustainable Prosperity: Policy Innovation for Greening Growth. University of Ottawa, Ottawa, Canada, April 28-29, 2014.

Barbier, E.B. "Ecosystem Services and the Poor on Marginal Lands: Tradeoffs and Synergies." Keynote Address, ESPA Annual Science Conference 2013, London, UK, November 20-21, 2013.

Barbier, E.B. "Scarcity and Frontiers: How Economics Have Developed Through Natural Resource Depletion." Faculty Senate Speaker Series, Fall 2013 Award Lecture, University of Wyoming, Casper October 29 and Laramie November 11, 2013.

Barbier, E.B. "Valuing Ecosystem Services for Coastal Wetland Protection and Restoration: Progress and Challenges." Invited Seminar, Marine Science Center, Northeastern University, Nahant, MA, October 24, 2013.

Barbier, E.B. "Structural Change, Marginal Land and Economic Development in Latin America and the Caribbean" Keynote Address, Workshop on Environmental and Development Economics in Latin America, CIDE, Mexico City, Mexico, October 4-5, 2013.

Barbier, E.B. "Biodiversity, Environmental Economics and Economic Policy" Plenary Address, Ecology and Economy for a Sustainable Society, 7th Trondheim Conference on Biodiversity, Trondheim, Norway, 27-31 May 2013

Barbier, E.B. "Is Green Growth Relevant for Poor Economies?" Plenary Address, Seminar on "Green Growth: Possible and Desirable?" The World Bank, Washington, D.C., 16 May 2013.

Barbier, E.B. "Land Degradation and Rural Poverty: Economic and Social Aspects." Plenary Address, 2nd Scientific Conference, UN Convention to Combat Desertification (UNCCD), Bonn, Germany, 9-12 April 2013.

Barbier, E.B. "Progress and Challenges in Valuing Ecosystem Services for Coastal Wetland Protection and Restoration." Plenary Address, Challenges of Natural Resource Economics and Policy, 4th National Forum on Socioeconomic Research in Coastal Systems, New Orleans, LA, 24-26 March 2013.

Barbier, E.B. "A Spatial Model of Coastal Ecosystem Services." Seminar, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD, January 11, 2013.

Barbier, E.B. "Structural Change, Dualism and Economic Development", Keynote Speech, Environment for Development Sixth Annual Meeting, Arenal, Costa Rica, October 25-29, 2012.

Barbier, E.B. "Land Degradation and the Rural Poor". Keynote Address, 2012 Research Symposium on Soil Security, University of Sydney, Sydney, Australia, July 16-17, 2012.

Barbier, E.B. "The Dualistic Frontier Economy in Developing Countries." Paper presented at the 19th Annual Conference of the European Association of Environmental and Resource Economists, Charles University and the University of Economics, Prague, Czech Republic, June 27-30, 2012.

Barbier, E.B. "The Dualistic Frontier Economy in Developing Countries." Paper presented at the Oxford Centre for the Analysis of Resource Rich Economies (OxCarre), University of Oxford, June 20, 2012.

Barbier, E.B. "Environmental Sustainability and Poverty Eradication in Developing Countries." Plenary Presentation, the Dorothy R. and Norman E. McCulloch Center for Global Initiatives, Global Challenges Conference: Development in Crisis, Mount Holyoke College, MA, March 2-3, 2012.

Barbier, E.B. "Natural Capital, Ecological Scarcity and Rural Poverty." Paper presented at the inaugural conference of the World Bank's Green Growth Knowledge Platform (GGKP), "Green Growth: Addressing the Knowledge Gaps," Mexico City, Mexico, January 12-13, 2012.

Barbier, E.B. "Overcoming Tenurial Constraints to Carbon Forestry Projects in Africa." Paper presented at the Association of Environmental and Resource Economists Inaugural Summer Conference, Seattle, WA, June 9-10, 2011.

Barbier, E.B. "Coastal Wetland Restoration and the *Deepwater Horizon* Oil Spill." Paper presented at Rigs, Risk, and Responsibility: Conference on the BP Oil Spill. Vanderbilt University Law School, Nashville, TN, April 1, 2011.

Barbier, E.B. "Linking Green Stimulus, Energy Efficiency and Technological Innovation: The Need of Complementary Policies." Paper prepared for the European Commission DG 1 (External Relations) Project, "Transatlantic Opportunities for Meeting Global Challenges in Energy Efficiency and Low Carbon Technologies". Presented at the Transatlantic Energy Efficiency Workshop, UC Berkeley School of Law, Berkeley, CA, February 11-12, 2011.

Barbier, E.B. "Ecosystems as Natural Assets." Keynote Address, 11th Annual meeting of the Society for Environmental Economics and Policy Studies, Nagoya, Japan, September 12, 2010.

Barbier, E.B. "A Spatial Model of Ecosystem Services." Paper presented at the 4th World Congress of Environmental and Resource Economists, Université du Québec à Montréal (UQAM), Montreal, Canada, June 28-July 2, 2010.

Barbier, E.B. "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 Artignianelli, Venice, Italy, September 21-22, 2009.

Barbier, E.B. "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, 2009.

Barbier, E.B. "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, 2009.

Barbier, E.B. "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, 2009.

Barbier, E.B. "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, 2009.

Barbier, E.B. "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, 2009.

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

Barbier, E.B. "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, 2008.

Barbier, E.B. "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, 2008.

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

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

Barbier, E.B. "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, 2007.

Barbier, E.B. "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.

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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.

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