JOY E. HECHT, PhD

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, PHD IN URBAN AND REGIONAL PLANNING, June 1988.
DISSERTATION TOPIC: Introduction of information systems for municipal property tax management in Tunisia. Awarded Fulbright scholarship for dissertation research.

HARVARD UNIVERSITY, BA IN ECONOMICS, MAGNA CUM LAUDE, June 1980. Phi Beta Kappa. Thesis on valuing benefits of environmental controls. Harry S. Truman Scholar from Massachusetts, 1978.

EMPLOYMENT HISTORY

2004 – PRESENT: SELF-EMPLOYED CONSULTANT on international environmental economics and policy, environmental monitoring, environmental and tourism satellite accounts; see detail below.

2002 –2003: FOUNDING EXECUTIVE DIRECTOR, NEW JERSEY SUSTAINABLE STATE INSTITUTE. Built a new think tank to provide information and objective analysis on sustainability issues in the state of New Jersey, with start-up financial support from the state. Affiliated with Rutgers University and the New Jersey Institute of Technology. Activities included designing a policy analysis program, managing staff updating state sustainability indicators, facilitating consensus on indicator targets, analysis of energy issues, liaison with Board of Governors, fund-raising, etc.

2000 - 2002: WROTE A BOOK ON ENVIRONMENTAL ACCOUNTING, published by Resources for the Future in 2005. **CONSULTED** domestically and internationally on environmental accounting, indicators, and policy; see detail below.

1996 - 2000: IUCN/ THE WORLD CONSERVATION UNION, Global Coordinator, Green Accounting Initiative.

- Director of a project to support integrating the environment into the national income accounts. Carried out case-study based research on use of environmental accounts for policy decisions in ten countries. Managed technical activities of four project staff members, a number of consultants, and half million dollar budget.
- Analysis of links between climate change and biodiversity; published paper on potential for using revenue from carbon sales to finance conservation.
- Provided broad economic input into IUCN activities on climate change, trade and environment, forest policy, etc. Analyzed potential for biodiversity prospecting to create markets for forest services.
- Member of UN "Nairobi Group" preparing a manual on environmental accounting and of UN "London Group" revising recommended methods for environmental accounting.

1995: ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT, Environment Directorate. Consultant. Worked on the environmental performance review program; participated in New Zealand review and prepared a handbook for OECD members and other countries on how to carry out such reviews.

1992 - 1996: SELF-EMPLOYED CONSULTANT on international environmental policy and economic issues; see detail below.

1988-1991: INTERNATIONAL RESOURCES GROUP, Washington D.C. Management Information Specialist in natural resources division. See detail below.

1982-1988: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, DEPARTMENT OF URBAN STUDIES AND PLANNING. Various research assistant positions while completing masters degree and PhD in urban and regional planning.

1981-1982: ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT Environment Directorate. Consultant. Built database on environmental protection expenditures in OECD member countries.

1980-1981: RESOURCES FOR THE FUTURE, Washington D.C. Research Assistant. Identified data sources for US resource accounting project. Conducted literature review on methods for valuing the environment.

CONSULTING ASSIGNMENTS AND OTHER PROFESSIONAL EXPERIENCE

NB: Reports from many of these assignments may be found on the web at http://www.joyhecht.net; see list of publications and papers below.

ENVIRONMENTAL ECONOMICS, POLICY AND MANAGEMENT

- Evaluation of environmental management systems and conservation in International Finance Corporation environmental and social performance standards in the agribusiness sector. Assignment included detailed assessment of EMS and environmental performance in India. 2008-09.
- Team leader on strategic environmental assessment for Millennium Challenge Corporation program of technical assistance to agribusiness development, Madagascar. 2008.
- Environmental Policy Specialist on Biodiversity Assessment and Technical Support (BATS) project for USAID/ Africa. Assessed USAID support for biodiversity over the past thirty years. 2006-2007.
- Carried out a comparative analysis of USAID strategies for identifying, monitoring and mitigating environmental impacts of agricultural export promotion and tariff policy reform in Africa, 1994. Followed up on implementation of those strategies in four countries, 1999.
- Assessed legal, regulatory, and institutional frameworks for water resources management for Morocco. 1996.
- Analyzed environmental impacts of international transport and of tariff escalation, for OECD Joint Committee on Trade and Environment. Tariff escalation paper published in *World Development*. 1996.
- Leader and environmental economist on interdisciplinary team developing USAID environmental strategy in Morocco, based on techniques of comparative risk assessment. 1995.
- Led a 7-person team which identified potential environmental impacts of agricultural export promotion and tariff policy reform in Chad; designed a program to track those impacts in real time. 1993. Published in *Ecological Economics*.
- Environmental economist on analyzing institutional and legal basis for pollution control in Morocco. 1994-5.
- Wrote World Bank's Chad Environmental Strategy Paper. 1993.
- Project manager and institutional analyst on team studying methods for improving USAID Africa Bureau's compliance with its environmental requirements. Washington and Africa, 1991.

BIODIVERSITY AND CONSERVATION FINANCE

- Developing proposal for finance of bonobo conservation in Congo through REDD-based carbon sequestration, for presentation after the Copenhagen climate meetings in December 2009. Working with DRC NGO Vie Sauvage, in collaboration with the Bonobo Conservation Initiative. 2009.
- Analysis of biodiversity strategies for USAID agribusiness project in Mali. 2008.
- Analysis of sustainable financing mechanisms to support national parks management in Madagascar, for WWF. Considered potential of carbon offsets, higher park entry fees, airline surcharges, hotel taxes, and other revenue funding sources. 2007-2008.
- Designed and implemented a valuation study for resources of Mount Mulanje, Malawi, including potential revenues from park use, carbon sequestration, sustainable private harvesting of natural resource-dependent products, fuelwood sales, etc. June 2005-May 2006.
- Analyzed sustainable park entry fee structures for Great Limpopo Transboundary Park and rationale for allocation of funds between South Africa, Mozambique and Zimbabwe. 2004.
- Wrote information and accounting portion of USAID primer on management of biodiversity. 2001.

ENVIRONMENTAL AND TOURISM STATISTICS AND ACCOUNTING

- Building tourism satellite accounts for Jordan. 2009
- Developed profiles of tourists visiting Jordan from key sending countries, for use in developing a tourism marketing strategy. 2009.
- Analyzed inbound and outbound Jordanian tourism, based on results of the first National Tourism Visitor Survey. Report presented at a series of workshops for public and private sectors. 2008.
- Advised the Jordanian Department of Statistics and Ministry of Tourism and Antiquities on the development of Tourism Satellite Accounts. 2007.
- Assessment of Mongolian tourism statistics and potential for constructing satellite accounts with which to monitor role of tourism in the environment. 2006.
- Comprehensive analysis of Egypt's environmental statistics system, considering data availability and gaps, institutional and process changes needed, and potential for building environmental accounts. 2004.

- Assessment of Egyptian Tourism Statistics and potential for constructing Tourism Satellite Accounts, particularly in relation to identifying the role of environmental tourism. 2005.
- Analyzed techniques to collect data for tourism satellite accounts in Egypt. Proposed revisions of national tourism survey to gather rigorous data on ecotourism expenditures. 2004.
- Scoping mission on environmental accounting in Vietnam. Led team of Vietnamese experts to identify strategy for developing and using environmental accounts. 2004.
- Participant in "London Group" team developing revised UN manual on environmental accounting. 2001-2.
- Wrote materials on policy applications of environmental accounting, for UN accounting manual. 2000.
- Economist and information management specialist on USAID projects to incorporate environmental assets and services into the Philippine and Indonesian national income accounts. 1991.

MONITORING, EVALUATION AND INDICATORS

- Participant in US Forest Service working group designing sustainability indicators system for the minerals sector. Working with representatives of minerals industry, government, and civil society to design and review indicators. Chaired environmental section of the working group. 2000-04.
- Developed national environmental and sustainability indicators system for the Government of Egypt, on USAID contract. Gathered data and did pilot indicator calculations, as lead-in to implementation of the system. 2001-2.
- Led a team conceptualizing and designing an information system to facilitate "learning from experience" about natural resources management in the Sahel. 1996.
- Analyzed provincial and municipal use of spatial information systems to strengthen urban planning and local public management in China. 1993-4.
- Developed a strategic planning process for spatial information systems analysis in African governments, subsequently applied in Ethiopia, Niger, Chad, and elsewhere. 1991.
- Team leader for a review of environmental evaluation and monitoring in USAID's Africa Bureau. 1991.
- Team leader on development of a GIS to analyze land management strategies in the Sahel. Analyzed how the Institut du Sahel (Mali) could support use of GIS for natural resource management in the region. 1990-91.
- Designed and introduced a project-based management information system to strengthen planning and financial accountability for AGRHYMET, a West African organization working on agriculture and meteorology. 1989-90.

PUBLICATIONS, PAPERS AND MAJOR REPORTS

"Biodiversity in the Pays Dogon." Forthcoming in *Africa Geographic."*

"Evaluation of Environmental and Social Effects of IFC Work in the Agribusiness Sector." Prepared as part of the IEG evaluation of the Agriculture, Food and Agribusiness Operations of the World Bank Group, 1998-2008. March 2009

"When will community management conserve biodiversity? Evidence from Malawi." In *Field.Actions Science Reports*, Volume 1, pp. 9-17, 2008. On the web at http://www.field-actions-sci-rep.net/1/9/2008/facts-1-9-2008.pdf.

"Biodiversity Activities for the USAID Economic Growth Project 'Integrated Initiatives for Economic Growth in Mali'" Prepared for the IICEM Project, October 2008.

“Strategic Environmental Assessment: Madagascar Millennium Challenge Account Agribusiness Investment Project.” Prepared for Millennium Challenge Corporation Assistance Technique aux Agribusiness Centers Project, June 2008.

"Protecting Hard-Won Ground: USAID Experience and Prospects for Biodiversity Conservation in Africa" With David Gibson and David App. Prepared for USAID Biodiversity Assessment and Technical Support Program. On the web at www.joyhecht.net

“How Much Is that Mountain…” In *Africa Geographic*, April 2008 Non-technical article on valuation of Mount Mulanje, Malawi. On the web at http://www.joyhecht.net.

“Tourism in Jordan: Current Patterns Future Opportunities” Analysis of Jordanian tourism patterns based on the National Tourism Visitor Survey. Prepared for the USAID/Jordan Tourism Development Project. February 2008.

“Introducing Green Charges to Fund Protected Areas In Madagascar: Technical Report” Prepared for World Wildlife Fund / Madagascar. January 2008.

“Implementation Plan for a Jordanian Tourism Satellite Account.” Prepared for the Jordan Department of Statistics and the USAID / Jordan Tourism Development Project. December 2007. On the web at www.joyhecht.net

“Thirty years of USAID Biodiversity Conservation in Africa: Lessons from the Past and Prospects for the Future.” Paper prepared for the Biodiversity Assessment and Technical Support Project (BATS). Spring 2007.

"Compiling a Mongolian Tourism Satellite Account: Phase 1." Study carried out for the USAID Mongolia Economic Policy Reform and Competitiveness project (EPRC). July 2006. On the web at www.joyhecht.net.

“Valuing the Resources of Mulanje Mountain: Current and projected use under alternate management scenarios." Study carried out for the COMPASS II Project/DAI, Blantyre, Malawi. April 2006. On the web at www.joyhecht.net.

“National Environmental Accounting: A practical introduction“ In the *Yearbook of Environmental Economics*, 2007.

"Can Indicators and Accounts Really Measure Sustainability? Considerations for the U.S. Environmental Protection Agency." Paper prepared in conjunction with the USEPA Workshop on Sustainability. February, 2006. On the web at http://www.epa.gov/sustainability/other_resources.htm.

"Valuing the Resources of Mulanje Mountain: Study Design." Occasional paper 9, COMPASS II Project/DAI, Blantyre, Malawi. July, 2005. On the web at www.joyhecht.net.

“Egyptian Tourism Statistics and the Development of Tourism Satellite Accounts.” Study carried out for the USAID DATA Project, Ministry of Planning, Egyptian Arabic Republic. April 2005. On the web at www.joyhecht.net.

National Environmental Accounting: Bridging the Gap Between Ecology and Economy. Introductory book targeting an informed but non-technical audience. (Washington, D.C.: Resources for the Future, 2005)

“Methodological Note: Incorporating Nature in the Tourism Satellite Accounts.” Paper produced for USAID/Egypt, June 2004. On the web at www.joyhecht.net

“Strengthening Data to Build Competitiveness: Using Tourism and Environmental Satellite Accounts to Track the Egyptian Economy.” Paper Presented at the Conference on Revisiting Egypt’s Competitiveness: The Road Ahead for Building Leading Sectors. Cairo, June 28 and 29, 2004. On the web at www.joyhecht.net

“Environmental Statistics and Accounting in Egypt: Challenges and Opportunities.” Prepared for the USAID DATA Project, Egypt Ministry of Planning, August 2004. On the web at www.joyhecht.net

ed., *Living With the Future in Mind.* Third edition of the New Jersey Sustainable State Goals and Indicators. (New Brunswick, NJ: The New Jersey Sustainable State Institute, 2004) On the web at http://www.njssi.net.

"Green National Income, Measures of Welfare, and Ideological Bias." Presented at the biennial meeting of the International Society for Ecological Economics, Sousse, Tunisia, March 2002. On the web at www.joyhecht.net.

"Environmental Accounting: Will it meet the goals of ecological economics?" Presented at the annual meeting of the US Society for Ecological Economics, July 2001. On the web at www.joyhecht.net

"Lessons Learned from Environmental Accounting: Findings from Nine Case Studies." (Washington, D.C.: IUCN-The World Conservation Union, 2000) On the web at www.joyhecht.net

"Accounting for the Environment in National Economic Data: New directions for the United States?” *Natural Resources and Environment; ABA Section of Environment, Energy and Resources*. Vol. 14, No. 3, Winter 2000. On the web at www.joyhecht.net

"Environmental Accounting: Where are we, where are we going?" *Resources*, April 1999. On the web at

www.joyhecht.net

ed., *Valuing the Environment: Cases from South Asia*. (Kathmandu: IUCN-The World Conservation Union, 1999) On the web at www.joyhecht.net

"Can the Kyoto Protocol Support Biodiversity Conservation: Legal and Financial Challenges" with Brett Orlando. In *Environmental Law Reporter*. September 1998. On the web at www.joyhecht.net

"Impacts of Tariff Escalation on the Environment: Literature Review and Synthesis" *World Development*, 25(1997):1701-1716 October 1997. On the web at www.joyhecht.net
"Integrating the Environment into the World Bank's Country Assistance Strategy" with Christine Real de Azua. Prepared for IUCN, 1997.

"The Impacts of Freight on the Environment" Prepared for the OECD Trade Directorate, 1996. On the web at www.joyhecht.net

"Monitoring the Environmental Impacts of Trade Policy Reform in Africa: Lessons from Chad" *Ecological Economics*, 13(1995):155-167 June 1995.

"Environmental Monitoring, Evaluation, and Mitigation Plans: A Review of the Experiences in Four African Countries" Prepared for USAID Africa Bureau, 1994.

"Chad: Country Environmental Strategy Paper" Report no. 13174-CD, The World Bank, 1994.

"Natural Resource Accounting in the Developing World: A Neo-Classical Approach" with H. Peskin. Presented at the UNEP Workshop on Environmental and Natural Resource Accounting, Nairobi, February 1992.

LANGUAGES: Native speaker of English. Fluent French. Some Spanish and Arabic.
OTHER INTERESTS: Sea kayaking, photography, swimming, ice skating, quilting.
REFERENCES: Available on request.