

RICHARD B. NORGAARD

Professor of Energy and Resources
University of California, Berkeley

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University of California at Berkeley
Berkeley, California 94720 – 3050

EDUCATION

PhD	Economics (fields of trade and agriculture)	University of Chicago	1971
MS	Agricultural Economics (water resources minor)	Oregon State University	1968
AB	Economics	University of California, Berkeley	1965

AREAS OF INTEREST

Epistemology and Sociology of Understanding Complex Systems
Ecological Economics and Development as Coevolution
Economics of Climate Change, Development, Energy, Environment, Sustainability, and Trade

SUMMARY OF SIGNIFICANT CONTRIBUTIONS

Professor Norgaard is recognized within the field of economics (*Who's Who in Economics*, Millennium Edition, and *The Changing Face of Economics: Conversations with Cutting Edge Economists* 2004) and the field of ecological economics (Kenneth E. Boulding Award, 2006) for both his critiques of and contributions to economics even while he spends most of his time working across disciplinary ways of understanding. His research emphasizes how the resolution of complex socio-environmental problems challenges modern beliefs about science and policy and explores development as a process of coevolution between social and environmental systems. His writing is informed through work on energy, environment, and development issues around the globe with different periods of his efforts emphasizing Alaska, Brazil, and California. He is an eclectic scholar with one solely authored book; several additional co-authored and co-edited books, and over 200 other publications in environmental and ecological economics, environmental sociology, environmental epistemology, and other fields.

Richard Norgaard serves on the Board of Directors of the *New Economics Institute*, on scientific advisory boards to Tsinghua and Beijing Normal University, and on the Board of *EcoEquity*. He served on the Board of Directors of the *American Institute of Biological Sciences* (2000-2009), in the position of Treasurer (2003-2009). He served until recently on the *Independent Science Board of CALFED* (California Bay-Delta Authority). The *American Association for the Advancement of Science* elected Norgaard to the status of "Fellow" in 2007. He has served as President of the *International Society for Ecological Economics* (1998-2001), on the Science Advisory Board of the U.S. EPA (2000-2004), as a member of the U.S. committee of the *Scientific Committee on Problems of the Environment* (SCOPE), on numerous panels of the National Research Council, the former Office of Technology Assessment, and in other state, federal, and international advisory capacities. He served as the founding Chair of the Board of *Redefining Progress* (1994-97) and as a member of its board (until 2007). Professor Norgaard was a Project Specialist with the Ford Foundation in Brazil (1978 and 79), a visiting research fellow at the World Bank (1992), and has worked with UNDP, UNEP, USAID, the Government of Vietnam, and other entities.

Professor Norgaard serves on the *International Panel on Sustainable Resource Management* of the United Nations Environment Programme and has been actively engaged with the *Intergovernmental Panel on Climate Change*, the *Millennium Ecosystem Assessment*, and other assessment efforts including *The Economics of Ecosystems and Biodiversity* and *UNEP Global Environmental Outlooks*.

HONORS

FELLOW, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, elected October 2007 in recognition of “path-breaking contributions to environmental and ecological economics, and for improving the scientific content of public policy discourse on sustainability and the future.”

DISTINGUISHED FACULTY MENTORING AWARD, Graduate Assembly, University of California, Berkeley, April 2007.

KENNETH E. BOULDING AWARD, International Society for Ecological Economics, received December 2006 at the 9th Biennial Meetings of the Society. New Delhi, for “expanding transdisciplinary approaches to knowledge, promoting pluralism, and forging a coevolutionary approach to economy, society, and the environment in the spirit of the open and inquisitive mind that was the hallmark of Boulding's work.”

ZAYED INTERNATIONAL PRIZE FOR ENVIRONMENT shared with 1400 other authors of the Millennium Ecosystem Assessment, for Scientific and Technological Achievement, received February 2006.

SERVICE AWARDS:

U.S. Environmental Protection Agency, Science Advisory Board, 2005.
Redefining Progress, Board of Directors, 2004.

FELLOWSHIPS:

Ford Foundation (PhD, Economics, University of Chicago).
Federal Water Quality Administration (MS, Agricultural Economics, Oregon State University)

OTHER RECOGNITION

Selected, Interviewed, and Written Up as One of Ten “Cutting Edge Economists Changing the Face of U.S. Economics” in the U.S., see: Chapter 8 in Dave Colander, Ric Holt, and J. Barkley Rosser. *The Changing Face of Economics: Conversations with Cutting Edge Economists* (2004, Dave Colander, Ric Holt, and J. Barkley Rosser, University of Michigan Press, Winner of *Choice Outstanding Academic Title 2004*, American Library Association).

Identified as one of the 1000 most cited economists in the world at the new millennium, see: *Who's Who in Economics*. Millennium Edition (1999, 3rd Edition, Mark Blaug editor, Edward Elgar).

EMPLOYMENT HISTORY

Lecturer (1967-68) Oregon College of Education; Acting Assistant Professor of Agricultural Economics (1970-71) with 50% academic and 50% Agricultural Experiment Station (AES) research appointment, Assistant Professor (1971-76), Associate Professor (1976- 1992), on-leave as a Project Specialist in Environment and Development with the Ford Foundation in Brazil (1978 and 1979), moved regular faculty half of appointment into the Energy and Resources Group (1988), Visiting Research Scholar at the World Bank (1991), Professor (since 1992), transformed 50% AES research appointment into full academic appointment in the Energy and Resources Group (2007) University of California at Berkeley.

PUBLIC SERVICE AND PROFESSIONAL EXPERIENCE

- 2010 Member of the Board, The New Economics Institute
- 2009 Member, Scientific Steering Committee, College of Earth Sciences, Tsinghua University
- 2009 Invited Expert, Scoping Meeting for 5th Assessment, Intergovernmental Panel on Climate Change, Venice
- 2009 Chapter Review Editor, The Economics of Ecosystems and Biodiversity (TEEB), United Nations Environment Programme
- 2009 – Member, International Panel for Sustainable Resource Management, United Nations Environment Programme, Paris
- 2008 – 13 Member, Scientific Steering Committee, College of Global Change and Earth System Science, Beijing Normal University
- 2008 – 09 Chapter Review Editor, Ecosystem Assessment Methodology Manual, United Nations Environment Programme
- 2008 – Chair, Kenneth E. Boulding Award Committee, International Society for Ecological Economics
- 2007 – Invited Nominator, The Japan Prize, The Science and Technology Foundation of Japan, Tokyo
- 2006 – Chair, Berkeley William Sloane Coffin Award Committee, First Congregational Church, Berkeley
- 2006 – 08 Member, Independent Science Board, California Bay-Delta Authority (CALFED process)
Co-Editor, State of the Science Report, 2007 – 08
Member, Delta Vision Assessment Team, 2007 – 08
Member, Search Committee, Lead Scientists, 2006 and 2007
- 2006 – 07 Chapter Review Editor, Global Environmental Outlook 4. United Nations Environment Programme
- 2006 – Contributor, Encyclopedia of the Earth, an electronic reference on the environment
- 2006 Consultant, Understanding Socio-Ecological Complexity, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia
- 2005 Speaker, Workshop on Understanding Multiple Environmental Stresses, Committee on Earth-Atmosphere Interactions: Understanding and Responding to Multiple Environmental Stresses, Board on Atmospheric Sciences and Climate, National Research Council.
- 2005 – 07 Member, Campus Ministry Advisory Committee, First Congregational Church, Berkeley
- 2004 – 05 Member, Water Management Science Board, California Bay-Delta Authority (CALFED process)
- 2004 – 05 Chapter Review Editor and Participant Observer, Millennium Ecosystem Assessment
- 2003 – 09 Treasurer, Member of the Board of Directors, American Institute of Biological Sciences
- 2003 – Representative, U.S. Society for Ecological Economics, Council of American Institute of Biological Sciences
- 2003 Presenter, Workshop on Knowledge, Security, and the Environment sponsored by Hadley Centre for Climate Prediction and Research, January 30 - February 1 at Wiston House, Wilton Park, UK.
- 2002 – 03 Past President, International Society for Ecological Economics
- 2001 – 04 Member, Science Advisory Board, Environmental Economics Advisory Committee, U.S. Environmental Protection Agency (resigned in protest due to misuse and non-use of science by G. W. Bush Administration)
- 2001 – 03 Member, Board of Directors, American Institute of Biological Sciences
- 2001 Participant, Second International Forum of the Collaboration Projects, Government of Japan, Tokyo
- 2001 Consultant, WestEd, review of NSF – IGERT project at University of Southern California
- 2000 – 09 Member, Advisory Board, Centre for Interdisciplinary Studies of Environment and Development, Bangalore, India
- 1999 – Representative, International Society for Ecological Economics to Council of American Institute of Biological Sciences

- 1998 – 01 President, International Society for Ecological Economics
- 1998 Expert Advisor, ProNatura, Review of Shell Oil Company's Camisea Project in the Peruvian Amazon
- 1998 – Member, Island Press Advisory Committee on Texts and Teaching Materials
- 1998 – 00 Associate, International Forum on Globalization
- 1998 – Member, Mesa Refuge Advisory Board
- 1997 Environmental Economic Consultant, Environment Australia
- 1996 Speaker, U.S. Senate briefing on "El Niño and Climate Change" sponsored by Senators Barbara Boxer and Ron Wyden, September 24.
- 1996 – 97 President-elect, International Society for Ecological Economics
- 1995 – 98 Member, Board of Directors, Institute for Sustainable Development
- 1995 Instructor, Environmental Economics Short Course, National Environment Agency, Vietnam
- 1995 Group Instructor, Environmental History and Philosophy Short Course, University of Umea, Sweden
- 1994 – 07 Founding Chair of the Board (94-97) and Member of the Board, Redefining Progress
- 1994 – 95 Economic Advisor, Government of Hungary, Preparations for World Court, Gabcikovo – Nagymoros Project
- 1994 Participant, Global Biodiversity Assessment, International Union for the Conservations of Nature and Natural Resources, The World Conservation Union, Switzerland
- 1993 – 99 Member, U.S. National Committee, Scientific Committee on Problems of the Environment (SCOPE), sponsored by National Research Council
- 1993 – 00 Nominator, Pew Scholars Program in Conservation and the Environment, now Marine Conservation
- 1993 – 94 Member, Renewable Energy Economic Assessment Panel, Studies of the Environmental Costs of Electricity. U.S. Congress, Office of Technology Assessment
- 1993 Member, Invasive Species Assessment Panel, U.S. Congress, Office of Technology Assessment
- 1992 – 95 Member, Economics Advisory Committee, United Nations Environment Programme
- 1992 Signatory, Joint Appeal by Religion and Science for the Environment, Washington, D.C.
- 1991 Visiting Research Fellow, World Bank
- 1990 – 92 Member, Scientific Advisory Committee, Biodiversity Support Program, World Wildlife Fund, Conservation International, and World Resources Institute
- 1990 – 92 Member, Ecosystem Valuation Forum, The Conservation Foundation and U.S. Environmental Protection Agency
- 1990 Member, Workshop, Economic Valuation of Environmental Degradation in Costa Rica. World Resources Institute, USAID, and Tropical Science Center. San Jose, Costa Rica
- 1990 Member, Workshop, International Land Use Systems Research. Indian Council of Agricultural Research, USAID, and Rodale Research Center. New Delhi.
- 1989 – 92 Member, Panel on Biodiversity Research Priorities, Board on Science and Technology for International Development, National Academy of Sciences
- 1989 – 90 Consultant, Barakat and Chamberlain, energy and greenhouse economics
- 1989 Advisor, unofficial meeting between U.S. and Japanese agencies on aid to Indochina, East-West Center, Hawaii
- 1989 Environmental Analyst, U.N. Development Programme, Economic Assessment Mission, Vietnam
- 1988 – 89 Chair, Policy Working Group, International Workshop and Conference on Conservation Biology and Agriculture organized by University of California at Davis
- 1988 Policy Analyst, World Bank team to negotiate and implement policies to protect the environment and indigenous peoples of Northwest Consolidation Project (Polonoreste, Rondonia), Brazil
- 1987 – 92 Member, National Advisory Board, Integrated Approaches to Training in Conservation and Sustainable Development, A Program Initiative of the Pew Charitable Trusts

- 1987 – 88 Juror, Special Federal Grand Jury, International Drug Cartels, Northern District of California
- 1987 Member, Advisory Committee, Program in Conservation and Development, The Pew Charitable Trusts
- 1987 Economist, Winrock International Evaluation Team for the Africa-wide Biological Control Program
- 1987 Environmental Consultant, UNFAO, Environment and Energy Programmes, to develop environmental guidelines for resettlement projects in humid tropical rainforests
- 1986 Policy Consultant, USAID to work with World Bank on design of institutions to sustain renewable resources
- 1986 Delegate, World Conservation Strategy Meeting, International Union for the Conservation of Nature and Natural Resources, Ottawa
- 1985 – 87 Consultant, Tobin and Tobin, on petroleum property valuation
- 1985 – 86 Member, Advisory Panel, Technologies to Maintain Biological Diversity, U.S. Congress, Office of Technology Assessment
- 1985 Member, East – West Center Delegation, Workshop on Rural Ecosystem Research, Co-sponsored by Chinese Environmental Protection Agency, Nanjing, China
- 1985 Consultant, UNESCO – USAID – Government of Thailand, Coastal Planning Training Team, Land Development Department and National Environmental Board
- 1985 Consultant, United Nations Environment Programme and the World Bank to review methodological problems of environmental accounting
- 1985 Instructor, Wrangell Mountains Program, McCarthy, Alaska (San Francisco State University sponsorship)
- 1984 – 85 Consultant, Environmental and Scientific Affairs, The World Bank on environmental accounting
- 1983 – 84 Consultant, Independent Oil Producers Agency of California on West Coast petroleum markets
- 1982 Consultant, Department of Water Resources, State of California on economics of Clavey-Wards Ferry project on the Tuolumne River
- 1982 Consultant, Plan Sierra, Dominican Republic
- 1980 – 82 Member, Water Demand Advisory Committee, Department of Water Resources, State of California
- 1979 Member, Advisory Panel on Agricultural Water Conservation, Department of Water Resources, State of California
- 1979 Member, Joint Planning Team for the Amazon, Superintendency for Agriculture, Brasilia and Centro de Desenvolvimento e Planejamento Regional, Universidade de Minas Gerais
- 1978 – 79 Project Specialist, Environment and Development, Ford Foundation, Brazil
- 1977 Consultant, Federal – State Land Use Planning Commission for Alaska on mineral leasing policy
- 1976 – 84 Member, Board of Economic Advisors, Public Interest Economics
- 1976 – 77 Consultant, Department of Natural Resources, State of Alaska, on economics of petroleum leasing policies
- 1976 Consultant, Office of Planning and Research, State of California on economics of Santa Ynez petroleum transport alternatives
- 1974 – 75 Consultant, Energy R & D Policy, U.S. National Science Foundation
- 1974 – 75 Consultant, Pesticide Programs, U.S. Environmental Protection Agency
- 1974 Consultant, British Petroleum – Standard Oil of Ohio, on Alaska petroleum development and the environment
- 1972 – 74 Member, Advisory Committee, 19 university coordinated program on integrated pest management sponsored by the National Science Foundation and the Man and the Biosphere Program
- 1972 – 74 Member, Cotton Study Team, Pesticide Evaluation, Environmental Studies Board, National Academy of Sciences
- 1972 – 73 Consultant, South Pacific Division, Comprehensive Port Studies, U.S. Army Corps of Engineers
- 1973 Member, Economics Advisory Board, Sierra Club

- 1972 Leader, First Descent in 20th Century, 2nd Descent ever, Tatshenshini River, Dalton Post, Yukon Territory to Alsek River and on to Dry Bay, Alaska (on the Pacific Ocean)
- 1971 – 72 Member, Pest Management and Research Advisory Committee, President’s Council on Environmental Quality
- 1970 – 72 Member, Interdisciplinary Research Team and Research Associate, Institute of Social, Economic, and Government Research, University of Alaska, on Prudhoe Bay petroleum development and the environment
- 1970 – 71 Founding Member and Midwestern Representative, Friends of the Earth
- 1966 – 67 Founding Member and Treasurer, Citizens for a Clean Environment, Oregon
- 1962 – 68 Part-time assistant to David Brower working as a river guide, photographer, and film editor, Sierra Club
- 1959 – River Guide for Academics Adrift, American River Touring Association, National Geographic Society, Sierra Club, and Wrangell Mountains Program. Spent 14 weeks in the Glen Canyon of the Colorado before it was inundated by Lake Powell.

SERVICE TO JOURNALS

- 2009 – Editorial Board, *Environmental Science and Policy*
- 2009 – Editorial Board, *Diversity*
- 2008 – Associate Editor, *San Francisco Estuary and Watershed Science*
- 2006 - 2009 Editorial Board, *Sustainability Science*
- 2006 – Advisory Board, *Conservation and Society*
- 2005 – Editorial Board, *Ecology and Society*
- 1998 – Editorial Board, *Environment, Development and Sustainability*
- 1995 – 2001 Editorial Board, *Ecosystem Health*
- 1994 – Editorial Board, *Resources, Energy and Development*
- 1990 – 1993 Editorial Board, *Contemporary Policy Issues* (now *Cont. Economic Policy*)
- 1990 – 1991 Co-editor, Book Review Section, *Society and Natural Resources*
- 1988 – Editorial Board, *Ecological Economics*
- 1986 – 1999 International Advisory Board, *Policy Sciences*
- 1986 – 1988 Advisory Board, *World Rivers Review*
- 1985 – 2003 Editorial Board, *Land Economics*
- 1973 – 1977 Contributing Editor, *Environment*

In addition to providing reviews for the above journals, I have also served during the past decade as a reviewer for *American Economic Review*, *American Journal of Agricultural Economics*, *BioScience*, *Climate Policy*, *Climatic Change*, *Conservation Biology*, *Ecological Complexity*; *Ecological Modeling*, *Ecosystems*, *Energy and Resource Economics*, *Environmental Management*, *Environment and Planning A*, *Government and Policy*, *Journal of Economic Behavior and Organization*, *Journal of Environmental Economics and Management*, *Nature*, *Natural Resources Journal*, *Operations Research*, *Science*, and others.

PROFESSIONAL ASSOCIATIONS AND SERVICE

American Association for the Advancement of Science (since 1970)

Nominee for Chair-elect, Societal Impacts of Science and Engineering Section, 2006 (not elected)

Elected as Fellow of AAAS in 2007

American Economics Association (1966-2009)

American Institute of Biological Sciences (since 1998)

Member of the Board of Directors, 2001-03

Chair of the Policy Committee, 2003

Treasurer and Chair of Finance Committee, 2004-9

Association of Environmental and Resource Economists (since founding)

Founding Member, 1974.

Chaired Board Nomination Committee, 1984.

Association for Public Policy Analysis and Management (1984-1994)

Federation of American Scientists (since early 1970s)

International Society for Ecological Economics (since founding in 1988)

Founding Member, 1987.

Vice President for Membership, 1991-93.

President-Elect, 1996-97

President, 1998-2001

Past President, 2002-3

Chair, Kenneth E. Boulding Award Committee, 2008 –

International Society for Ecosystem Health, 1994-2002

Member of Editorial Board

International Society for the History, Philosophy, and Social Studies of Biology (since founding in 1992?)

Latin American Studies Association (1980-1994)

Program Chair, Environment Sessions for 1994 Meetings

Oikos International Foundation for Ecological Economics, Siena, Italy

Member, Scientific Advisory Board (1992-95)

Rocky Mountain Biological Laboratory (Patron Member 1984-94)

Society for the Advancement of Socio-Economics (1990-1994)

Society for Conservation Biology (since beginning in 1986)

Western Economic Association (1984-94)

UNIVERSITY SERVICE

(service on campus Ad Hoc promotion review committees and to ERG and ARE not included)

- 2009 – Treasurer, Berkeley Faculty Association
- 2008 – 09 Member, Committee on Educational Policy (Academic Senate)
- 2006 – Member, Advisory Committee, Program on Religion, Politics, and Globalization, International and Area Studies
- 2005 – 06 Member, Chancellor’s Standing Committee on Mental Health (Administrative-Academic Senate)
- 2005 – 06 Member, Undergraduate Outcomes Task Force (Administrative-Academic Senate)
- 2004 – 06 Member, Working Group on Disaster Preparedness (Administrative-Academic Senate)
- 2004 – 06 Member, Committee on Educational Policy (Academic Senate)
- 1996 Member, Political Ecology Search Committee, Department of Anthropology
- 1996 Member, Search Committee, Director of Environmental Engineering Health Sciences Laboratory
- 1995 – 96 Member, Committee on Courses (Academic Senate)
- 1993 – 4 Member, Committee on International Education (Academic Senate)
- 1992 – 03 Member, Committee on History of Technology (initially Social and Ethical Implications of Technology) College of Engineering
- 1992 – 94 Member, Executive Committee, Center for Latin American Studies
- 1989 Member, External Review Committee for Agroecology Program at University of California at Santa Cruz
- 1984 – 87 Chair, Committee on Undergraduate Scholarships and Honors (Academic Senate)
- 1984 – 86 Head Graduate Advisor, Graduate Group in Latin American Studies
- 1982 – 86 Member, Executive Committee, Graduate Group in Latin American Studies
- 1974 – 76 Chair, Committee for the design and implementation of Political Economy of Natural Resources undergraduate major (now Environmental Economics and Policy), College of Natural Resources
- 1974 – 76 Member, University-wide Advisory Committee on Energy
- 1972 – 74 Founding Member of the Energy and Resources Graduate Group

SIGNIFICANT LECTURES (more significant than a “plenary address”)

2009. Ecosystem Services: Prospects and Pitfalls for the Implementation of a Metaphor. Program on Global Environment Distinguished Lecture. University of Chicago. May 28.

2006. Deliberative Economics. First Kenneth E. Boulding Memorial Lecture, International Society for Ecological Economics. Delhi. December 17.

2006. Finding Hope in the Millennium Ecosystem Assessment. Keynote Address. Contemplating Sustainability Conference. UN University – Tokyo. October 20.

2004. Sustaining Life: The Meaning of Agroecology. Keynote Address. II Congresso Brasileiro de Agroecologia / V Seminario Internacional sobre Agroecologia. Porto Alegre, Brazil. November 22.

2003. Collectively Seeing Complex Systems. Environmental Studies Annual Lecture. University of Chicago. April 3.

1998. Beyond Economic Growth and Globalization. 10th V. T. Krishnamachari Lecture. Institute of Economic Growth. New Delhi, India. September 25. (Published in *Economic and Political Weekly*)

1998. Toward Economies that Sustain Nature and Human Dignity: An Ecological Economic Reformulation. CERN, Science and Society Lecture Series. Geneva, Switzerland. March 5.

1996. Orchestrating Discordant Knowledges. Keynote Address. 4th Biennial Meeting of the International Society for Ecological Economics. Boston, Massachusetts. August 4.

1994. Community, Economy, and Sustainability. Town and Gown Lecture. Jointly hosted by University of Colorado and the City of Boulder. March 1.

1991. Sustainability: The Paradigmatic Challenges to Agricultural Economics. Key Note Speech. Twenty-First International Conference of Agricultural Economists. Tokyo. August.

VIDEOS OF LECTURES AVAILABLE ON LINE

2006. Values and Valuation in a Rapidly Changing World. Plenary address at the Annual Meeting of the American Institute of Biological Sciences. Washington, D.C. May 25. <http://www.aibs.org/media-library/>

BOOKS

Single-Authored Book

- Norgaard, Richard B. 1994. *Development Betrayed: The End of Progress and a Coevolutionary Revisioning of the Future*. London and New York. Routledge.
2003. Translated into Japanese by Kenji Takeuchi and published by Kisho Shobo Publishing, Tokyo.
2001 – Available electronically through Taylor and Francis.

Multi-Authored and Co-edited Books and Monographs

- Healey, M.C., M.D. Dettinger, and R.B. Norgaard (eds). 2008. *The State of Bay-Delta Science, 2008*. CALFED Science Program. Sacramento, CA.
- Irwin, Frances and Janet Ranganathan with Mark Bateman, Albert Cho, Hernan Dario Correa, Robert Goodlan, David Jhirad, Karin Krchnak, Antonio La Viña, Lailai Li, Nicolas Lucas, Mohan Munasinghe, Richard Norgaard, Suhir Chella Rajan, Lokieñe Rodríguez, Guido Schmidt-Traub, and Frances Seymour. 2007. *Restoring Nature's Capital: An Action Agenda to Sustain Ecosystem Services*. WRI Report. World Resources Institute. Washington, D. C.
- Berger, Joanna, Elinor Ostrom, Richard B. Norgaard, David Policansky, and Bernard D. Goldstein (eds). 2001. *Protecting the Commons: A Framework for Resource Management in the Americas*. Island Press. Washington, D. C.
- Costanza, Robert, John Cumberland, Herman Daly, Robert Goodland and Richard B. Norgaard. 1997. *An Introduction to Ecological Economics* (an intermediate level college text). International Society for Ecological Economics and St. Lucie Press, Florida.
2005 - Available electronically at the Routledge EconomicsnetBase: www.economicsnetbase.com
2001. Translated into German, edited, augmented, and published as *Einführung in die Ökologische Ökonmik*. Lucius & Lucius. Stuttgart.
- Prugh, Tom with Robert Costanza, John H. Cumberland, Herman Daly, Robert Goodland, and Richard B. Norgaard. 1995. *Natural Capital and Human Economic Survival*. International Society for Ecological Economics Press. Solomons, Maryland. Hardback distributed by Chelsea Green, White River Junction, Vermont. Paperback distributed by Sinauer Associates, Sunderland, Massachusetts. (2nd Edition, 1999, Lewis Publishers, CRC Press, Boca Raton, Florida).
2005 - Available electronically at the Routledge EconomicsnetBase: www.economicsnetbase.com
- Tussing, Arlon R. George W. Rogers, and Victor Fischer with Richard B. Norgaard and Gregg K. Erickson. 1971. *Alaska Pipeline Report*. Institute of Social, Economic, and Government Research. University of Alaska, Fairbanks (also republished as part of the Trans Alaska Pipeline Environmental Impact Statement, U.S. Department of the Interior, 1972).

ACADEMIC JOURNAL ARTICLES

- Norgaard, Richard B. Forthcoming. Ecosystem Services: From Eye-Opening Metaphor to Complexity Blinder. 2010. Special issue of *Ecological Economics* on Payments for Ecosystem Services.
- Norgaard, Richard B. and Giorgos Kallis. *Forthcoming*. Coevolutionary Contradictions: Prospects for a Research Program on Social and Environmental Change. Forthcoming in a Special Issue on Coevolution, *Geografiska Annaler*
- Gual Font, Miguel Angel and Richard B. Norgaard. 2010, Bridging Ecological and Social Systems Coevolution: A Review and Proposal. For a special issue edited by Gowdy, Kallis and Norgaard. *Ecological Economics* **69**(4):707-717.
- Kallis, Giorgos and Richard B. Norgaard. 2010. Coevolutionary Economics. For a special issue edited by Gowdy, Kallis and Norgaard. *Ecological Economics* **69**(4):690-699.
- Norgaard, Richard B., Giorgos Kallis, and Michael Kiparsky. 2009. Collectively Engaging Complex Socio-Ecological Systems: Re-Envisioning Science, Governance, and the California Delta. *Environmental Science and Policy* **12**(6): 644-652.
- Kallis, Giorgos, Michael Kiparsky, and Richard B. Norgaard. 2009. Adaptive Governance and Collaborative Water Policy: California's CALFED Bay-Delta Program. *Environmental Science and Policy* **12**(6): 631-643.
- Kallis, Giorgos, Joan Martinez-Alier, and Richard B. Norgaard. 2009. Real Debts, Paper Assets: An Ecological-economic Exploration of the Global Economic Crisis. *Critical Perspectives on International Business* **5** (1/2): 14-25.
- Srinivasan, U. Thara, Susan P. Carey, Eric Hallstein, Paul A. T. Higgins, Amber C. Kerr, Laura E. Koteen, Adam B. Smith, Reg Watson, John Harte, and Richard B. Norgaard. 2008. The Debt of Nations and the Distribution of Ecological Impacts from Human Activities. *Proceedings of the National Academy of Sciences* **105**(5): 1768-73.
- Norgaard, Richard B. 2008. Finding Hope in the Millennium Ecosystem Assessment. *Conservation Biology* **22**(4): 862-69.
- Norgaard, Richard B. and Ling Jin. 2008. Trade and the Governance of Ecosystem Services. *Ecological Economics* **66**(4):638-52.
- Norgaard, Richard B. 2007. Deliberative Economics. *Ecological Economics* **63**(2-3):375-82.
- Norgaard, Richard B. and Xuemei Liu. 2007. Market Governance Failure. *Ecological Economics*. **60**(3):634-641.
- Nelson, Gerald, Elena Bennett, Asmeret Asefaw Berhe, Kenneth Cassman, Ruth DeFries, Thomas Dietz, Andrew Dobson, Achim Dobermann, Anthony Janetos, Marc Levy, Diana Marco, Nebojsa Nakicenovic, Brian O'Neill, Richard Norgaard, Gerhard Petschel-Held, Dennis Ojima, Prabhu Pingali, Robert Watson, Monika Zurek. 2006. Anthropocentric Drivers of Ecosystem change: An Overview. *Ecology and Society* **11**(2) 29 : <http://www.ecologyandsociety.org/vol11/iss2/art29/>
- Sneddon, Christopher, Richard B. Howarth, and Richard B. Norgaard. 2006. Sustainable Development in a Post-Brundtland World. *Ecological Economics* **57**(2):253-68.

- Norgaard, Richard B. and Paul Baer. 2005. Collectively Seeing Complex Systems: The Nature of the Problem. *BioScience* **55**(11):953-960.
- Norgaard, Richard B. and Paul Baer. 2005. Collectively Seeing Climate Change: The Limits of Formal Models. *BioScience* **55**(11):961-966.
- Lélé, Sharachchandra and Richard B. Norgaard. 2005. Practicing Interdisciplinarity. *BioScience* **55**(11):967-975.
- Norgaard, Richard B. 2004. Learning and Knowing Collectively. *Ecological Economics* **49**(2):231-241.
- Norgaard, Richard B. 2004. Posthuman Enough? *BioScience* **54**(3):258-62.
- Norgaard, Richard B. and Paul Baer. 2003. Seeing the Whole Picture. *World Futures* **59**(3-4):225-39.
- Norgaard, Richard B. 2003. Which We, Whose Wisdom, Whither the Mountain West? *BioScience* **53**(3):278- 281.
- Norgaard, Richard B. 2002. Can Science and Religion Better Save the Environment Together? *BioScience* **52**(8):748-55.
- Wackernagel, Mathis, Niels B. Schulz, Diana Deumling, Alejandro Callejas Linares, Martin Jenkins, Valerie Kapos, Jonathan Loh, Norman Myers, Richard B. Norgaard, Jorgen Randers, and Chad Monfreda. 2002. Tracking the Ecological Overshoot of the Human Economy. *Proceedings of the National Academy of Sciences* **99**:9266-9271. (July 9).
- Norgaard, Richard B. 2002. Optimists, Pessimists, and Science. *BioScience* **52**(3):287-92.
- Trainor, Sarah F. and Norgaard, Richard B. 1999. Recreation Fees in the Context of Wilderness Values. *Journal of Parks and Recreation Administration* **17** (3):101-116.
- Ostrom, Lin, Joanna Burger, Chris Field, Richard B. Norgaard, and David Policansky. 1999. Revisiting the Commons: Local Lessons, Global Challenges. *Science* **284** (April 9):278-282.
- Norgaard, Richard B. 1998. A Improvisação do Conhecimento Discordante. *Ambiente e Sociedade* **1**(2):25-40.
- Norgaard, Richard B., Collin Bode with the Values Reading Group. 1998. Next, the Value of God, and Other Reactions. (A response to The Value of the World's Ecosystem Services and Natural Capital by Costanza *et al.*) *Ecological Economics* **25**(1):37-39.
- Norgaard, Richard B. 1997. Economism, Environmentalism, and Ecological Economics (in Portuguese). *ANPEC journal*.
- Rader, Nancy A. and Richard B. Norgaard. 1996. Efficiency and Sustainability in Restructured Electricity Markets: The Renewables Portfolio Standard. *The Electricity Journal* **9**:37-49.
- Lélé, Sharachchandra and Richard B. Norgaard. 1996. Sustainability and the Scientist's Burden. *Conservation Biology* **10**:354-65.
- Norgaard, Richard B. 1995. Metaphors We Might Survive By. *Ecological Economics* **15**:129-131.

- Norgaard, Richard B. 1995. Beyond Materialism: A Coevolutionary Reinterpretation of the Environmental Crisis. *Review of Social Economy* **LIII**:475-492.
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