

**RICHARD B. NORGAARD**

Professor Emeritus of Energy and Resources  
University of California, Berkeley

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**EDUCATION**

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

**AREAS OF INTEREST**

History and Sociology of Economism  
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 an eclectic scholar with one solely authored book; five co-authored and co-edited books, four additional multi-authored monographs, and over 200 other publications in environmental and ecological economics, environmental sociology, environmental epistemology, and other fields. He 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 most of his effort goes to working across disciplinary ways of understanding. The *American Association for the Advancement of Science* elected Norgaard to the status of “Fellow” in 2007. 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, water, environment, and development issues around the globe with different periods of his career emphasizing Alaska, Brazil, and California.

Internationally, Professor Norgaard served on the 5<sup>th</sup> Climate Assessment of the *Intergovernmental Panel on Climate Change* and on the *International Resource Panel* of the United Nations Environment Programme (2009-12). He actively engaged with the *Millennium Ecosystem Assessment* (2003-05) and was involved in other assessment efforts including UNEP's *The Economics of Ecosystems and Biodiversity* and UNEP's *Global Environmental Outlook* (various years).

Nationally, Norgaard chaired (2010-13) and continues to serve on the *Delta Independent Science Board* of the Delta Stewardship Council (formerly the CALFED Independent Science Board on which he also served), State of California and served (2011-13) on the advisory board of NSF's National Socio-Environmental Synthesis Center. He previously served 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), and on numerous panels of the National Research Council and the former Office of Technology Assessment.

Richard Norgaard served on the founding Board of Directors of the *New Economy Coalition* (formerly *New Economics Institute*), on climate science advisory boards to Tsinghua University 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 as President of the *International Society for Ecological Economics* (1998-2001). He was the founding Chair of the Board of *Redefining Progress* (1994-97) and a member of its board until 2007. Professor Norgaard was a Project Specialist with the Ford Foundation in Brazil (1978 and 1979), and a visiting research fellow at the World Bank (1992).

## 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 9<sup>th</sup> 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 1968-70 PhD Fellowship, Economics, University of Chicago.  
Federal Water Quality Administration Fellowship, MS, Agricultural Economics, Oregon State University

## OTHER RECOGNITION

Selected, Interviewed, and Written Up as One of Ten “Cutting Edge Economists Changing the Face of Economics” in the U.S., see: Chapter 8 in *The Changing Face of Economics: Conversations with Cutting Edge Economists* (2004, Dave Colander, Ric Holt, and J. Barkley Rosser, Eds. 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 3<sup>rd</sup> millennium, see: *Who's Who in Economics*. Millennium Edition (1999, 3<sup>rd</sup> Edition, Mark Blaug editor, Edward Elgar).

## EMPLOYMENT HISTORY

Lecturer (1967-68) Oregon College of Education (now Western Oregon University); Employment history at, and while at, University of California Berkeley: 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 (from 1992), transformed 50% AES research appointment into full academic appointment in the Energy and Resources Group (2007) University of California at Berkeley. Retired July 1, 2013.

**PUBLIC SERVICE AND PROFESSIONAL EXPERIENCE** (Note: Service to journals, professional associations and the University of California are listed at the very end of this CV)

- 2014-16 Co-Editor, State of Bay Delta Science 2016
- 2013 – Member, Advisory Board, New Economy Coalition
- 2011 – 13 Member, External Advisory Board, National Socio-Environmental Synthesis Center, National Science Foundation, University of Maryland, Annapolis.
- 2010 – First Chair (2010-13) and member, Delta Independent Science Board, Delta Stewardship Council, State of California
- 2010 – 14 Lead Author, Working Group III, Chapter 4, 5<sup>th</sup> Assessment, Intergovernmental Panel on Climate Change
- 2010 – 13 Member of the Board, New Economics Institute
- 2009 – 13 Member, Scientific Steering Committee, Institute for Global Change Studies, Tsinghua University
- 2009 One of 100 Invited Experts, Scoping Meeting for 5<sup>th</sup> Assessment, Intergovernmental Panel on Climate Change, Venice
- 2009 Chapter Review Editor, The Economics of Ecosystems and Biodiversity (TEEB), United Nations Environment Programme
- 2009 – 12 Member, International Resource Panel (formerly International Panel for Sustainable Resource Management), United Nations Environment Programme
- 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 – 12 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 – 10 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 Bay-Delta Science Report, 2007 – 08  
     Member, Delta Vision Assessment Team, 2007 – 08  
     Member, Search Committee, Lead Scientists, 2006, 2007, and 2015
- 2006 – 07 Chapter Review Editor, Global Environmental Outlook 4. United Nations Environment Programme
- 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 – 10 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 – 04 Member, Island Press Advisory Committee on Texts and Teaching Materials
- 1998 – 00 Associate, International Forum on Globalization
- 1998 – 05 Member, Mesa Refuge Advisory Board
- 1997 Environmental Economic Consultant, Environment Australia
- 1996 Speaker (with John Holdren and S. David Freeman), 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 Co-Chair with E. Phillip LeVeen and steering committee consisting of Kenneth J. Arrow, Jack Hirshleifer, Julius Margolis, and Richard Musgrave. *Economists for Proposition 13: The Water Resources Conservation and Efficiency Act*
- 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 20<sup>th</sup> Century, 2<sup>nd</sup> 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.

**SIGNIFICANT LECTURES** (for me)

2016. How Economism Became Our Religion. 22<sup>nd</sup> Annual Lecture, Energy and Resources Group, University of California, Berkeley. April 7

2012. Reducing Economic Disparity. Planet Under Pressure Conference. London.

2012. Climate-challenged Society. Annual Lecture, The Environment, Politics, and Development Group, King's College London. March 30.

2011. Can We Scientifically Undo that which was Unscientifically Done? XIV World Water Congress, Porto de Galinhas, Brazil. September 28.

2009. Ecosystem Services: Prospects and Pitfalls for the Implementation of a Metaphor. Distinguished Lecture, Program on Global Environment, 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. 10<sup>th</sup> 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. 4<sup>th</sup> 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 and RECORDINGS OF LECTURES AVAILABLE ON LINE

2017. An Interview with Fergal Byrne, London, for his “Sustainability Agenda”

<http://thesustainabilityagenda.com>

2017. An Interview by Students of the Schools of Divinity, Law, and Forestry and Environment at Yale. <https://www.youtube.com/watch?v=I8M1UWQqafw>

2016. Pre-Annual Lecture Session by Former ERG Students on Norgaard and his Work.

<https://www.youtube.com/watch?v=s-dt0nG-KiE&feature=youtu.be>

2016. 22<sup>nd</sup> Annual Lecture of the Energy and Resources Group

<https://erg.berkeley.edu/erg-22nd-annual-lecture-2016-richard-norgaard/>

2013. Interviews with Brad Smith about Interdisciplinarity, Economy, and Environment radio KALX  
First show: ??? available on iTunes:

Second show: <http://kalx-dev.ets.berkeley.edu/news/richard-norgaard-spectrum>

2012. Interview with Nathanael Johnson on Growth and the Economy available on KALW

<https://archive.org/details/richard-norgaard.v9flYb.popuparchive.org>

2012. Reducing Economic Disparity, Planet Under Pressure Conference – London March 29

<https://www.youtube.com/watch?v=No-WH9yBSMk>

2011. SESYNC interview

<https://www.youtube.com/watch?v=C6m98MxQaCk&feature=youtu.be&hd=1>

2011. Interview with Mary Evelyn Tucker for *Journey of the Universe* Film, Supplement.

<https://tr.coursera.org/learn/journey-knowledge-action/lecture/WPODv/ecological-economics-richard-norgaard>



## MONOGRAPHS

## 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

- Dryzek, John, Richard B. Norgaard, and David Schlosberg. 2013. *Climate-Challenged Society*. Oxford University Press. Oxford.
- Dryzek, John, Richard B. Norgaard, and David Schlosberg. (eds). 2011. *The Oxford Handbook of Climate Change and Society*. Oxford University Press. Oxford.
- 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.  
 2014 – 2<sup>nd</sup> Edition. Substantially revised with an additional and new co-author, Ida Kubiszewski.  
 2005 - Available electronically at the Routledge EconomicsnetBase: [www.economicsnetbase.com](http://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. (2<sup>nd</sup> Edition, 1999, Lewis Publishers, CRC Press, Boca Raton, Florida).  
 2005 - Available electronically at the Routledge EconomicsnetBase: [www.economicsnetbase.com](http://www.economicsnetbase.com)

## Other Monographs

- Ackerman, Frank, Elizabeth A. Stanton, Stephen J. DeCanio, Eban Goodstein, Richard B. Howarth, Richard Norgaard, Catherine S. Norman, and Kristen Sheeran. 2009. *The Economics of 350: The Benefits and Costs of Climate Stabilization*. Economics for Equity and the Environment Network.
- 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, Lokei 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.
- Smart, B. PM Morrisette, AJ Platinga, J Darstadter and about 30 others including RB Norgaard. 1992. *Beyond compliance: a new industry view of the environment*. Resources for the Future. Washington, D.C.
- 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

- Latrubesse, Edgardo M., Eugenio Y. Arima, Thomas Dunne, Edward Park, Victor R. Baker, Fernando M. d'Horta, Charles Wight, Florian Wittmann, Jansen Zuanon, Paul A. Baker, Camila C. Ribas, Richard B. Norgaard, Naziano Filizola, Atif Ansar, Bent Flyvbjerg, and Jose C. Stevaux. 2017. Damning the Rivers of the Amazon Basin: Research Perspective. *Nature* **546**:363-369. doi:10.1038/nature22333
- Wiens, John A. Joy B. Zedler, Vincent H. Resh, Tracy K. Collier, Stephen Brandt, Richard B. Norgaard, Jay R. Lund, Brian Atwater, Elizabeth Canuel, and Harindra J. Fernando. 2017. Facilitating Adaptive Management in California's Sacramento-San Joaquin Delta. *San Francisco Estuary and Watershed Science* July. <http://escholarship.org/uc/item/8w35m437>
- Healey, Michael, Michael Dettinger, and Richard B. Norgaard. 2016. Perspectives on Bay-Delta Science and Policy. *San Francisco Estuary and Watershed Science*. 14(4): jmie\_sfews\_33447. Retrieved from: <http://escholarship.org/uc/item/7jz6v535>
- Francois Bousquet, Aurélie Botta, Luca Alinovi, Olivier Barreteau, Deborah Bossio, Katrina Brown, Patrick Caron, Marco d'Errico, Fabrice DeClerck, Hélène Dessard, Elin Enfors Kautsky, Christo Fabricius, Carl Folke, Louise Fortmann, Bernard Hubert, Danièle Magda, Raphael Mathevet, Richard B. Norgaard, Allyson Quinlan, and Charles Staver. 2016. Resilience and Development: Mobilizing for Transformation. *Ecology and Society* 21(3):40. <http://dx.doi.org/10.5751/ES-08754-210340>
- Healey, Michael, Michael Dettinger, Cliff Dahm, Peter Goodwin, and Richard B. Norgaard. 2016. The State of Bay-Delta Science 2016 – An Introduction. *San Francisco Estuary and Watershed Science*. 14(2) July. <https://erg.berkeley.edu/erg-22nd-annual-lecture-2016-richard-norgaard/>
- Norgaard, Richard B. 2013. The Delta and the Econocene. *San Francisco Estuary and Watershed Science*, 11(3) October. <http://www.escholarship.org/uc/item/4h98t2m0>
- R. Muradian, M. Arsel, L. Pellegrini, F. Adaman, B. Aguilar, B. Agarwal, E. Corbera, D. Ezzine de Blas, J. Farley, G. Froger, E. Garcia-Frapolli, E. Gómez-Baggethun; J. Gowdy, N. Kosoy, J.F. Le Coq, P. Leroy, P. May, P. Méral, P. Mibielli, R. Norgaard, B. Ozkaynak, U. Pascual, W. Pengue, M. Perez, D. Pesche, R. Pirard, J. Ramos-Martin, L. Rival, F. Saenz, G. Van Hecken, A. Vatn, B. Vira, K. Urama. 2013. Payments for ecosystem services and the fatal attraction of win-win solutions. *Conservation Letters* **6**(4):274-279.
- Norgaard, Richard B. and Giorgos Kallis. 2011. Coevolutionary Contradictions: Prospects for a Research Program on Social and Environmental Change. Lead article in a Special Issue on Coevolution, *Geografiska Annaler: Series B, Human Geography* **93**(4):1-12.
- Ackerman, Frank, Elizabeth A. Stanton, Stephen J. DeCanio, Eban Goodstein, Richard B. Howarth, Richard Norgaard, Catherine S. Norman, and Kristen Sheeran. 2010. The Economics of 350. *Solutions*.
- Norgaard, Richard B. 2010. Ecosystem Services: From Eye-Opening Metaphor to Complexity Blinder. 2010. Special issue on Payments for Ecosystem Services. *Ecological Economics* **69**(6):1219–1227.
- 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/>
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- Norgaard, Richard B. with Susan Easton, George Ledec, and Laurel Prevetti. 1987. Social Organization for Sustaining Renewable Resources. Prepared for the World Bank and U.S. Agency for International Development.
- Norgaard, Richard B. with Jane V. Hall. 1984. A Review of West Coast Petroleum Potential and Supplies: 1985-2000. Prepared for Independent Oil Producers' Agency. Long Beach, California.

## Radio and Television APPEARANCES

- 2014. Radio Station KALX, Twenty minutes on economics, ecology, and philosophy. January 10.
- 2013. Radio Station KALX, Twenty minutes on economics, ecology, and philosophy. December 27.
- 2007. Channel 7, ABC local news, January 18. On Governor Schwarzenegger's Executive Order to promote the reduction of greenhouse gases from transportation fuels.
- 2006. Channel 5 Eye Witness News, April 25. On energy prices, environmental regulations, and the Bush Administration.
- 2003. KQED (radio) Forum, September 10. Politicizing Science with Michael Krasny and guests Henry I. Miller (Hoover Institute) and Daniel Sarewitz (then Columbia University)

## DISSERTATIONS

*Output, Input, and Productivity Change in U.S. Petroleum Development: 1939-1968.* Ph.D. Dissertation. Department of Economics, University of Chicago, May 1971.

*Streamflow and Deposition in the Lower Columbia River: A Partial Physical Production Function with an Economic Application.* Masters Dissertation. Department of Agricultural Economics, Oregon State University, October 1967.

## FORWARDS, PREFACES, and BACK COVER ENDORSEMENTS

- 2014. Back Cover Endorsement. Per Espen Stoknes. *What We Think When We are Not Thinking about Climate Change.* Chelsea Green.
- 2013. Back Cover Endorsement. Carl Death (ed). *Critical Environmental Politics.* Routledge. London.
- 2013. Back Cover Endorsement. Kenneth Worthy. *Invisible Nature.* Prometheus Books. New York.
- 2009. Inside Promotion Line. Tim Jackson. *Prosperity without Growth.* Earthscan. London.
- 2009. Forward. Embracing Fewer Answers. Katharine Farrell, Sybille van den Hove, and Tommaso Luzzati (eds). *Beyond Reductionism: A Passion for Interdisciplinarity.* Routledge. London.
- 2009. Back Cover. W. Neil Adger and Andrew Jordan (eds). *Governing Sustainability* Cambridge University Press.
- 2009. Inside Cover Endorsement. Peter G. Brown and Geoffrey Garver. *Right Relationship: Building a Whole Earth Economy.* Berrett-Koehler Publishing, San Francisco.
- 2009. Preface: A View from America. Debal Deb. *Beyond Developmentality: Constructing Inclusive Freedom and Sustainability.* Earthscan, London.
- 2007. Back Cover Quote. Jon Erickson and John Gowdy (eds). *Frontiers in Ecological Economic Theory and Application.* Edward Elgar.
- 2006. Promotion Quote. Thomas Berry. *Evening Thoughts: Reflecting on Earth as a Sacred Community.* Edited by Mary Evelyn Tucker. Sierra Club Books and University of California Press.
- 2006. Back Cover. Michael Redclift. *Frontiers: Histories of Civil Society and Nature.* MIT Press.
- 2005. Back Cover. Michael Common and Sigrid Stagl. *Ecological Economics: An Introduction.* Cambridge University Press.
- 2005. Back Cover. Graham R. Marshall. *Economics for Collaborative Environmental Management.* Earthscan. London.
- 2005. Inside Cover. R. Quentin Grafton, Libby Robin and Robert J. Wasson (eds). *Understanding the Environment: Bridging the Disciplinary Divides.* University of New South Wales Press.
- 2004. Back Cover. Connor, Robin and Stephen Dovers. *Institutional Change for Sustainable Development.* Edward Elgar.
- 2003. Back Cover. Berkhout, Frans, Meilissa Leach, and Ian Scoones, *Negotiating Environmental Change: New Perspectives from Social Science,* Edward Elgar.

2002. Back Cover. Clark, Mary E. *In Search of Human Nature*. Routledge. London. (This endorsement is in the company of John Ziman, Niles Eldredge and Elise Boulding)
2002. Back Cover. Steininger, Karl W. and Hannelore Weck-Hannemann (eds). *Global Environmental Change in Alpine Regions*. Edward Elgar.
2002. Back Cover. Thomas Princen, Ken Conca, and Michael Maniates. *Confronting Consumption*. MIT University Press.
2002. Back Cover. Daniel W. Bromley and Jouni Paavola. *Economics, Ethics, and Environmental Policy*. Blackwell.
2000. Back Cover. Luca Tacconi. *Biodiversity and Ecological Economics: Participation, Values and Resource Management*. Earthscan.
2000. Back Cover. Jonathan M. Harris. *Rethinking Sustainability: Power, Knowledge, and Institutions*. Ann Arbor. University of Michigan Press.
2000. Back Cover. Brent M. Haddad. *Rivers of Gold*. Washington, D. C. Island Press.
1999. Forward. Duane Chapman. *Environmental Economics: Theory, Application, and Policy*. Reading, Massachusetts. Addison-Wesley.
1998. Back Cover. Curtis H. Freese. *Wild Species as Commodities: Managing Markets and Ecosystems for Sustainability*. Washington, D. C. Island Press.
1995. Back Cover. Rajaram Krishnan, Jonathan Harris, and Neva R. Goodwin (eds). *A Survey of Ecological Economics*. Washington, D. C. Island Press.
1994. Back Cover. Martin O'Connor (ed). *Is Capitalism Sustainable? Political Economy and the Politics of Ecology*. New York. Guilford Press.
1988. Back Cover. Stephen G. Bunker. *Underdeveloping the Amazon: Extraction, Unequal Exchange, and the Failure of the Modern State*. Chicago. University of Chicago Press.

## PUBLISHED PHOTOGRAPHY

2005. *Berkeleyan* 34(6):8 photos, Cathedral in the Desert, ([www.berkeley.edu/news/berkeleyan/2005/09/22\\_norgaard.shtml](http://www.berkeley.edu/news/berkeleyan/2005/09/22_norgaard.shtml))
2000. Glen Canyon Action Network Posters, Brochures, and Web Site ([www.drainit.org](http://www.drainit.org))
1975. *The Mountain Gazette*, including Cover Photo.
1971. *California Water*. University of California Press. Cover Photo.
1965. *Science*, Cover Photo.
- 1965 and reprints. *On the Loose*. Terry and Renny Russell. Sierra Club Books.
- 1965 and reprints. *Time and the River Flowing*. Sierra Club Books.
1964. *The Glen Canyon*. 45 of 400 transparencies used in the production of the film are taken by me. Sierra Club Films.
- 1962 -67. Various *Sierra Club Bulletins*.

## CHAPTERS, INTERVIEWS, AND ARTICLES THAT PROFILE ME

2014. Efforts to curb unbridled growth that's killing the planet 'Natural capital' of resources viewed as more vital than economic growth By **Carolyn Lochhead** e hearst/common/author\_name.tpl Updated 10:22 pm, Saturday, January 4, 2014
2013. KALX Spectrum Interviews
2011. "Richard Norgaard". Chapter 6 in *The Wildness Within: Remembering David Brower*. Kenneth Brower. Berkeley. Heyday Books.
2011. Conversation #13 *Ecological Economics* with Mary Evelyn Tucker in *Journey of the Universe: Conversations*. A film accompanying the film *Journey of the Universe*, InCa Productions, Northcutt Productions, Yale University School of Forestry, and KQED
2010. "Co-Evolutionary Economics (main originator: Richard Norgaard)". Chapter 9 in *Integral Economics: Releasing the Economic Genius of Society*. London. Gower Ashgate.
2009. "Toward a Common Wealth: Economist Richard Norgaard Decries the Gospel of Endless Wealth". Nathanael Johnson. *California Magazine*. Winter 2009 pages 37-41.
2009. Newsmaker, KALW Radio, May 11, 5pm. A ten-minute interview on the economic crisis and its relation to our environmental crises.
2005. "Return to a lost world of upside-down mountains". Barry Bergman. *Berkeleyan* **34**(6):8 (September 22).
2004. "Richard B. Norgaard". Chapter 8 in *The Changing Face of Economics: Conversations with Cutting Edge Economists*. Dave Colander, Ric Holt, and J. Barkley Rosser. Ann Arbor. University of Michigan Press
1992. Interview titled: Richard B. Norgaard. *Options* International Institute for Applied Systems Analysis.
1992. Interview titled: Wirtschaften für unsere Enkelkinder? *WEINER BLÄTTER* 05/92 pages 19-21.
1992. Warsh, David. Economics, Ecology: Twin sciences of the 21<sup>st</sup> century. Economic Principles. *The Boston Sunday Globe* (May 24): 29-30.
1992. The Price of Green. Economics Focus. *The Economist* (May 9): 87.
1992. Taking Future Generations into Account. Lynn Atwood. *Berkeleyan* **20**(12):

Other-

New York Times Cathedral in the Desert Encounter

[http://www.nytimes.com/2005/04/08/travel/escapes/from-the-depths-a-cathedral-emerges.html?\\_r=0](http://www.nytimes.com/2005/04/08/travel/escapes/from-the-depths-a-cathedral-emerges.html?_r=0)

## LISTED IN

Who's Who in Economics. Millennium Edition (1999, 3<sup>rd</sup> Edition, Mark Blaug editor, Edward Elgar)

The Futurist Directory. Millennium Edition

Marquis Who's Who in America or the West (since 1970, no longer keeping track)

## PERSONAL INFORMATION

Born: August 18, 1943 Washington D. C.

Married: June 19, 1965 to Marida Jane Fowle (divorced June 1976)

Children: Kari Marie Norgaard, born December 18, 1967; Marc Anders Norgaard, born November 7, 1970

Married: June 5, 1993 to Nancy A. Rader

Children: Mathiesen Rader Norgaard and Addie Nelle Rader Norgaard, born December 18, 1998

## SERVICE to JOURNALS and an ENCYCLOPEDIA

2017 –	Member, Editorial Board, <i>Nature - Sustainability</i>
2014 –	Member, Advisory Board, <i>Oxford Research Encyclopedia of Climate Science</i>
2014 –	Member, Advisory Board, <i>Ecology, Economy and Society: Journal of the INSEE</i>
2014 – 2017	Editor, Social Sciences and Water, <i>Earth's Future</i> American Geophysical Union
2011 –	Editorial Board, <i>Environmental Innovation and Societal Transitions</i>
2009 –	Editorial Board, <i>Environmental Science and Policy</i>
2009 – 2014	Editorial Board, <i>Diversity</i>
2008 –	Associate Editor, <i>San Francisco Estuary and Watershed Science</i>
2006 - 2009	Editorial Board, <i>Sustainability Science</i>
2006 –	Advisory Board, <i>Conservation and Society</i>
2005 – 2011	Editorial Board, <i>Ecology and Society</i>
1998 –	Editorial Board, <i>Environment, Development and Sustainability</i>
1995 – 2001	Editorial Board, <i>Ecosystem Health</i>
1994 –	Editorial Board, <i>Resources, Energy and Development</i>
1990 – 1993	Editorial Board, <i>Contemporary Policy Issues</i> (now <i>Cont. Economic Policy</i> )
1990 – 1991	Co-editor, Book Review Section, <i>Society and Natural Resources</i>
1988 –	Editorial Board, <i>Ecological Economics</i>
1986 – 1999	International Advisory Board, <i>Policy Sciences</i>
1986 – 1988	Advisory Board, <i>World Rivers Review</i>
1985 – 2003	Editorial Board, <i>Land Economics</i>
1973 – 1977	Contributing Editor, <i>Environment</i>

In addition to providing reviews for the above journals, I have also served in this millennium 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*, *GeoForum*, *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 Geophysical Union (1970-72 and 2014- )

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.  
Chair, 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)

World Economic Association (founding member 2011)

## UNIVERSITY SERVICE

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

2009 – 10	Treasurer, Berkeley Faculty Association
2008 – 12	Member, Committee on Educational Policy (Academic Senate)
2006 – 10	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