December 2018

 RESUME: **GARY D. LIBECAP**

Positions

Distinguished Professor, Bren School of Environmental Science and Management and Department of Economics, University of California, Santa Barbara.

Research Associate, National Bureau of Economic Research, Cambridge, Massachusetts.

Research Group on Political Institutions and Economic Policy, Harvard University.

Senior Research Fellow (Adjunct) at the Hoover Institution, Stanford University

Senior Fellow, PERC, Bozeman, Montana

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Bren School of Environmental Science and Management

4412 Bren Hall

University of California, Santa Barbara

Santa Barbara, California 93106

Education

Ph.D. 1976, University of Pennsylvania

M.A. 1969, University of Pennsylvania

B.A. 1968, University of Montana

Awards and Responsibilities

 Erskine Fellowship, University of Canterbury, 2019

Pitt Professor of American History and Institutions, Economics Faculty, Cambridge University, 2010-11

Fellow, Cliometric Society, 2016-

President, 2006, Economic History Association

President, 2006, Western Economics Association International

President, 2005, International Society for the New Institutional Economics

Vice President, 2004, Western Economics Association International

Vice President, Economic History Association, 2000-2001.

Appointed Positions

Global Think Tank on Wild Ocean Fisheries Management, World Wildlife Fund, 2015-2018.

Advisory Committee: Ostrom Workshop, Indiana University, 2015-2018.

Advisory Group: Water in the West, Stanford Woods Institute and Bill Lane Center, Stanford University, 2015-2018

Fellow, the Economics and Science Group, Australian National University, 2015-.

Advisor Committee, UC Institute on Global Conflict and Cooperation, IGCC, 2013-2018.

Research Associate, Center for Water Economics, Environment and Policy, Australian National University, 2009-

Research Associate, National Bureau of Economic Research, 1990-

Senior Research Fellow (Adjunct), Hoover Institution, Stanford 2017-

Research Fellow, Hoover Institution, Stanford 2013-17

Sherm and Marge Telleen Research Fellow, Hoover Institution 2007-2013

Member, Scientific Committee, International Center for Economic Research, Turin Italy 2007-2014.

Senior Fellow, PERC (Property and Environment Research Center), Bozeman, Montana 2006-

Lone Mountain Research Fellow, PERC (Property and Environment Research Center), Bozeman, Montana 2012.

Robert Wesson Fellow, Hoover Institution, 2005.

Julian Simon Fellow, PERC (Property and Environment Research Center), Bozeman, Montana, 2004

Member, Advisory Committee on Environmental Research and Education, National Science Foundation, 2005-08.

Panelist, National Science Foundation, Coupled Human and Natural Systems, 2017.

Panelist, National Science Foundation, Interdisciplinary Behavior and Social Science Panel, 2014

Panelist, National Science Foundation, Water Sustainability Panel, 2012.

Panelist, National Science Foundation, Decision Making Under Uncertainty, 2009.

Panelist, National Science Foundation, Human and Social Dynamics Program, Committee of Visitors, 2008

Panelist, National Science Foundation, Biocomplexity in the Environment, Dynamics of Coupled Natural and Human Systems, 2003-2004.

 Panelist, National Science Foundation, Economics Panel. 1998-2000.

Panelist, National Science Foundation, Global Change Initiative, 1993-1995.

Board of Directors, International Society for the New Institutional Economics (ISNIE), 2001-2005.

Member, Selection Panel, Japan-US Friendship Committee Fellowships, 2003.

Research Fellow, International Center for Economic Research, Turin, Italy 1998, 1999, 2001, 2003, 2005, 2007, 2009, 2010.

Plenary Addresses

Keynote Address: “The Promise of Environmental Markets,” College of Charleston, September 2017.

Keynote Address: “ITQs in Fisheries: Global Design Issues,” The Nature Conservancy, September 2017, Lima Peru.

Keynote Address: “Collective Action by Contract: Prior Appropriation Property Rights and Development of Irrigation in the Western United States,” Mario and Antoinette Romano Lecture, SUNY Binghamton, April 2017.

Keynote Address: “Fishery Quota Allocation: Grandfathering vs Auction,” March, 2017, Lima, Peru.

Keynote Address: “Efficiency of Grandfathering Property Rights: Prior Appropriation or First-Possession Rights in Water,” Carver Colloquium on Western Water, University of Denver Law School, September 2016.

Keynote Address: “Fishery Quota Allocation: Grandfathering vs Auction,” August, 2016, Reykjavik, Iceland.

Keynote Address: “Fishery Quota Allocation: Grandfathering vs Auction,” September, 2016, Torshavn, Faroe Islands.

Keynote Address: “California Water: Prior Appropriation Water Rights and Markets,” April 19, 2016, Caltech Conference on Rationalizing the Allocation of California Water.

Plenary Address: “Coasean Bargaining to Address Environmental Externalities,” Wang Yanan Institute for Studies in Economics (WISE) Xiamen University, China, April 2016.

Plenary Address: “Environmental Externalities and Coasean Exchange,” Vincent and Elinor Ostrom Memorial Lecture, Indiana University, Bloomington, February 2016.

Plenary Address: “Environmental Externalities and Coasean Exchange” 52nd Annual Conference, Brazilian Agricultural Economics and Management Association July 26-29, 2015, João Pessoa (Paraiba).

Plenary Address: Levine Family Lecture Series, University of California, Davis, “Water Rights and Water Markets” April 2015.

Plenary Address: “Global Environmental Externalities, Property Rights, and Public Policy,” Washington DC Conference in Honor of Ronald Coase, March 2015.

Plenary Address: “Fate of the Earth Symposium” Michigan State University, April 2015.

Plenary Address: “Addressing Global Environmental Externalities: Transaction Cost Considerations,” Dan and Carole Burack President’s Distinguished Lecture Series, University of Vermont, October 2013.

Plenary Address, “Addressing Global Environmental Externalities: Transaction Cost Considerations,” Thorstein Veblen-John Bates Clark Lecture, Carleton College, May 2013.

Plenary Address, “Climate Change Mitigation versus Adaptation: Implications for Latin American,” Inter American Development Bank, July 2012.

Plenary Address, “Addressing Global Environmental Externalities: Transaction Cost Considerations,” All Chicago Area Economic History Workshop, April 2012.

Plenary Community Address: The Tragedy of the Commons Revisited, Whitman College, Walla Walla, Washington, October 2011.

Plenary Panel Member: American Environmental and Natural Resource Policies” American Studies Program, University of Glasgow, UK, March 2011.

Plenary Address—Open Access Losses and Delay in the Assignment of Property Rights, Institute d’Etudes Scientifiques de Cargese, France Conference: “Which Governance for Which Environment” organized by the University of Paris X and the Catholic University of Louvain, 2010.

Plenary Address, “US-Australian Water Markets: Opportunities and Reforms,” Australian Consumer and Competition Commission, Australian Government, 2009.

Plenary Address, “Promoting Better Environmental Outcomes,” Productivity Commission, Australian Government, 2008.

Plenary Address, “Allocation within Sectors: Assigning Property Rights in the Common Pool. The Implications of the Dominance of First Possession,” Sharing the Fish 06 Conference, Perth, Western Australia, February 2006.

Mellon Lecturer, Reed College, “Owens Valley and Transactions Costs in Water Transfers,” “Transaction Costs and Institutional Responses to the Common Pool,” Portland Oregon, January 2005

Plenary Address and Panelist, “Transaction Costs and Institutional Responses to the Common Pool,” Frontiers in Resource Management, Australian Resource and Environmental Economics Society, Auckland, NZ, October 2004.

Plenary Address, “Transaction Costs and Institutional Responses to the Common Pool,” Canadian Resource and Environmental Economics Meetings, Montreal, October 2002.

Editorial Positions

Co-Editor, *Journal of Economic History*, June 1996-2000

Board of Editors, *Journal of Economic Behavior and Organization*, 2005-2010

Editor, special issue on Property Rights, Natural Resources and the Environment, *Australian Journal of Resource and Agricultural Economics*, 2009

Co-Editor: *The Economics of Climate Change: Adaptations Past and Present*, NBER and University of Chicago Press.

Board of Editors, *Explorations in Economic History*, 1985-1992.

Board of Editors, *Journal of Economic History*, 1985-1990.

Editor, *Advances in the Study of Entrepreneurship, Innovation, and Economic Growth*, 1985- Elsevier and Emerald Series.

Visiting Scholar and Lectureships

Erskine Fellowship, University of Canterbury, 2019

Pitt Professor of American History and Institutions, Economics Faculty, Cambridge University, 2010-11

### Invited Lecturer, University of Bergen, Norway Law School, 2014.

### Invited Lecturer, “Environmentalism” College of Charleston, September 2017; Global ITQ Design Issues, Lima Peru, September 2017; Ronald Coase Institute, Bogota, Columbia, (University de los Andes) December 2017;Ronald Coase Institute, (Xiamen University), Xiamen China, May 2017; Romano Lecture, SUNY Binghamton, April 2017; Conference on Fishery Quota Allocation, Lima, Peru, March 2017; Carver Colloquium on Water Allocation, University of Denver Law School, September 2016; Conference on Fishery Quota Allocation, Torshavn, Faroe Islands, September 2016; Conference on Quota Allocation, Reykjavik, Iceland, August 2016; Indiana University Ostrom Workshop, October 2016; Ronald Coase Institute, Estonian Business School, 2016; University of Tel Aviv, 2015; Washington D.C. Conference in Honor of Ronald Coase, 2015; University of the Philippines, Manila 2014; Santiago, Chile (Diego Portales University 2012**);** Xiamen, China (Xiamen University, 2009, 2013) Beijing, China (Tsinghua University 2012, Peking University 2008, Shanghai (Fundan University 2010), Reykjavik (University of Iceland, 2007), Boulder (University of Colorado 2006), Barcelona([Pompeu Fabra University](http://www.documentaciondigital.org/)2007), , Budapest (University of Budapest), MIT, University of California, Berkeley, the University of Arizona, and International Society for the Study of the New Institutional Economics (Society for Institutional and Organizational Economics), 2016-2001.

Invited Lecturer, Toulouse University, March 2011; University of Economics, Prague, May 2011

Visiting Scholar, Faculty of Applied Economics, University Paul Cezanne Aix-Marseille, France, 2007.

Visiting Scholar, University of Paris (Pantheon-Sorbonne), “The Economics and Law of the Common Pool,” May 2005.

Invited Lecturer, European School on New Institutional Economics, “Contracting for Property Rights in Environmental and Natural Resource Settings,” Corsica, France, April, 2003, May, 2005, March 2009

Fellowship Award, Japan-US Friendship Commission, Visiting Professor Keio University, Tokyo 2001

John M. Olin Fellow in Law and Economics, Cornell Law School, November 1996; USC Law Center, April 1998.

John M. Olin Fellow in Law and Economics, California Institute of Technology and the University of Southern California Law Center, 1992-1993.

Visiting Scholar, John F. Kennedy Institute for North American Studies, Free University of Berlin, December 1996-February 1997.

Senior Bradley Fellow, Montana Historical Society, Helena 1999.

Fulbright Fellowship, Montevideo, Uruguay, Property Rights and Economic Development, June 1990.

Professional/Scholarly Administration

Co-PI ITQ Allocation, The Nature Conservancy, Lima Peru, 2018-2019

Co-PI: ITQ Allocation and Reallocation, SNP, Lima Peru, 2017-18.

Co-Chair, Personnel Committee, Bren School, UCSB 2017-18.

Co-PI: Management of Western and Central Pacific Tunas to Reduce Bycatch of Big Eye Tunas, The Nature Conservancy, 2016-17.

PI: All UC Multi Campus Research and Policy Initiative, University of California—Berkeley, Irvine, Los Angeles, Merced, and Santa Barbara on Environmental Markets. 2014-2017.

Co-Director, University of California, Energy, Environment, and Economics Program, University of California, Berkeley and Santa Barbara, 2012-14

Search Committees, Personnel Committee, PhD Program Committee, Master’s Program Committee, Bren School of Environmental Science and Management, University of California, Santa Barbara, 2006--

Co-organizer, National Bureau of Economic Research, Summer Institute Development of the American Economy, 2013-14.

Program Committee, Economic History Association Meetings, 2016

Program Selection Committee, Association for Environmental and Resource Economics Annual Meetings, 2013--

Steering Committee, All UC Economic History Group, 2007-

Member, University of California Institute on Global Conflict and Cooperation, UCSD, Steering Committee, 2007-2010; 2013-.

10th Occasional California Workshop on Environmental and Natural Resource Economics, Co-Organizer, University of California, Santa Barbara, 2008.

“Climate Change: Adaptation Past and Present” Universities Research Conference, National Bureau of Economic Research, co-organizer, 2008, 2009.

External Advisory Board, Center for the Study of Institutions, Population, and Environmental Change, Indiana University 2000-2004.

Advisory Board, Institutional Analysis Series, University of Michigan Press, 1999-2001

Board of Directors, Western Economic Association International, 1997-2000, 2004-2007.

Trustee, Economic History Association, 1991-1994, 1996-2001, 2004-2007.

Program Co-chair, Economic History Association, 1994

Local Arrangements Chair, Tucson Meetings, Economic History Association, 1993

International Board of Advisors, Czech Management Center, Prague, 1992-1998.

Nominating Committee, Western Economic Association International, 1991.

Trustee, Cliometrics Society, 1989-1992.

Associate, Columbia University Seminars in Economic History and Legal and Economic Change, 1976-1982.

Other Awards.

"Best Article for 1992," *Economic Inquiry*, Editorial Board.

Andersen Consulting, “Professor of the Year” Award, 1995.

Karl Eller Center's McGuire Entrepreneurship Program designed #2 in the country by *Entrepreneur Magazine*, 2004, 2005; awarded National Model Program, by National Association of Small Business and Entrepreneurship, 1989, 2002. Selected by SuccessMagazine as one of the TOP 25 programs in the country, 1994, 1996, and in the TOP 5 in 1998. Consistently in the top 25 in all polls.

Honorable Mention, Hawkins Award for Excellence in Professional and Scholarly Publication, Association of American Publishers, for *The Federal Civil Service and the Problem of Bureaucracy: The Economics and Politics of Institutional Change*, 1995.

Rutgers Research Council Fellowship, 1976.

University of Pennsylvania Dissertation Year Fellowship, 1975-1976.

NDEA-Title IV Fellowship, University of Pennsylvania, 1968-1969, 1973-1975.

Books

*Shopping for Water: How the Market Can Mitigate Water Shortages in the American West*, Robert Glennon, Gary D. Libecap and Peter W. Culp. Washington DC: Island Press.

*Environmental Markets: A Property Rights Approach*, Terry L. Anderson & Gary D. Libecap, Cambridge University Press, 2014.

*Climate Change Past and Present: Uncertainty and Adaptation*. University of Chicago Press and NBER. 2010. Edited with Richard Steckel.

*Transitions and Tipping Points in Complex Environmental Systems* Gary Libecap and members of the NSF Advisory Committee for Environmental Research and Education (Susan Stafford lead author), National Science Foundation, 2009.

*Owens Valley Revisited: A Reassessment of the West’s First Great Water Transfer*. Stanford University Press, 2007.

*Public Choice Essays in Honor of a Maverick Scholar: Gordon Tullock*. Kluwer Academic, 2000. Edited by Price Fishback and Ed Zajac.

*Titles, Conflict and Land Use: The Development of Property Rights and Land Reform on the Brazilian Amazon Frontier*, with Lee Alston and Bernardo Mueller. University of Michigan Press, 1999.

*The Federal Civil Service System and the Problem of Bureaucracy: The Economics and Politics of Institutional Change*, with Ronald Johnson. University of Chicago Press and NBER, 1994.

*The Political Economy of Regulation: An Historical Analysis of Government and the Economy*, co-editor with Claudia Goldin. University of Chicago Press and NBER, 1994.

*Contracting for Property Rights*. New York: Cambridge University Press, December, 1989. Translated into Chinese and published in 1998 by the China Social Sciences Publishing House, Beijing.

*Locking Up the Range: Federal Land Use Controls and Grazing*. Cambridge: Ballinger, 1981.

*The Evolution of Private Mining Rights: Nevada's Comstock Lode*. New York: Arno Press/New York Times, July, 1978.

Research Report

*Water and the California Economy*, Ellen Hanak, et al, San Francisco: Public Policy Institute of California, 2012

Monograph Series

*Advances in the Study of Entrepreneurship, Innovation, and Economic Growth*, Elsevier, Emerald, Gary D. Libecap, Editor.

Volume I -- *Entrepreneurship and Innovation: The Impact of Venture Capital on the Development of New Enterprise*, 1987.

Volume II -- *Innovation in New Markets: The Impact of Deregulation on Airlines, Financial Markets, and Telecommunications*, 1988.

Supplement -- *Corporate Reorganization Through Mergers, Acquisitions, and Leveraged Buyouts*, 1988.

Volume III -- *Issues in American International Competitiveness*, 1989.

Volume IV -- *Health Care Issues and American Economic Growth*, 1990.

Volume V -- *The Education and Quality of the American Labor Force*, 1992.

Volume VI -- *New Learning on Entrepreneurship*, 1993.

Volume VII -- *Reinventing Government and the Problem of Bureaucracy*, 1995.

Volume VIII--*The Entrepreneurial Middle: Policy Reforms that Affect Mid-Sized Business*, 1996.

Volume IX--*Critical Social and Technological Factors Affecting Entrepreneurial Mid-Sized Firms*, 1997.

Volume X-- *Legal, Regulatory, and Political Changes that Affect Entrepreneurial Midsize firms*, 1998.

Volume XI-*New Evidence on Entrepreneurship and its Impact on Economic Performance*, 1999.

Volume XII-*Entrepreneurship and Economic Growth in the American Economy*, 2000.

Volume XIII-*Entrepreneurial Inputs and Outcomes*, 2001.

Volume XIV-*Issues in Entrepreneurship: Contracts, Corporate Characteristics, and Country Differences*, 2002

Volume XV-*Intellectual Property and Entrepreneurship*, 2004.

Volume XVI-*Intellectual Property, Entrepreneurship, and University-Based Technology Transfer*, 2005.

Volume XVII-*The Cyclic Nature of Innovation: Connecting Hard Sciences with Soft Values*, 2007

Volume XVIII—*Technological Innovation: Generating Economic Results*, 2008

Volume XIX--*Measuring the Social Value of Innovation: A Link in the University Technology and Entrepreneurship Equation*, 2009.

Volume XX-- *Frontiers In Eco-Entrepreneurship*, *Research* 2010.

Volume XXI—*Spanning Boundaries and Disciplines: University Technology Commercialization in the Idea Age* 2011.

Working papers:

 NBER:

June 2018: [Federal Lands, Opportunity Costs, and Bureaucratic Management](http://www.nber.org/papers/w24705)
w24705.

May 2018: [The Critical Role of Markets in Climate Change Adaptation](http://www.nber.org/papers/w24645)
with [Sarah E. Anderson](http://www.nber.org/people/sarah_anderson), [Terry L. Anderson](http://www.nber.org/people/terry_anderson), [Alice C. Hill](http://www.nber.org/people/alice_hill), [Matthew E. Kahn](http://www.nber.org/people/matthew_kahn), [Howard Kunreuther](http://www.nber.org/people/howard_kunreuther), [Hari Mantripragada](http://www.nber.org/people/hari_mantripragada), [Pierre Mérel](http://www.nber.org/people/pierre_merel), [Andrew Plantinga](http://www.nber.org/people/andrew_plantinga), [V. Kerry Smith](http://www.nber.org/people/kerry_smith): w24645.

May 2018: [Douglass C. North: Transaction Costs, Property Rights, and Economic Outcomes](http://www.nber.org/papers/w24585)
w24585.

April 2018: [Property Rights to Frontier Land and Minerals: US Exceptionalism](http://www.nber.org/papers/w24544)
w24544.

May 2017: [How Transaction Costs Obstruct Collective Action: Evidence from California’s Groundwater](http://www.nber.org/papers/w23382) with [Andrew B. Ayres](http://www.nber.org/people/andrew_ayres), [Eric C. Edwards](http://www.nber.org/people/eric_edwards): w23382.

April 2016: [Collective Action by Contract: Prior Appropriation and the Development of Irrigation in the Western United States](http://www.nber.org/papers/w22185) with [Bryan Leonard](http://www.nber.org/people/bryan_leonard): w22185.

January 2016: [Coasean Bargaining to Address Environmental Externalities](http://www.nber.org/papers/w21903)
w21903.

January 2016: [An Illiquid Market in the Desert: Estimating the Cost of Water Trade Restrictions in Northern Chile](http://www.nber.org/papers/w21869) with [Eric C. Edwards](http://www.nber.org/people/eric_edwards), [Oscar Cristi](http://www.nber.org/people/oscar_cristi), [Gonzalo Edwards](http://www.nber.org/people/gonzalo_edwards): w21869.

October 2013: [Addressing Global Environmental Externalities: Transaction Costs Considerations](http://www.nber.org/papers/w19501)
w19501.

November 2010: [Efficiency Advantages of Grandfathering in Rights-Based Fisheries Management](http://www.nber.org/papers/w16519) with [Terry L. Anderson](http://www.nber.org/people/terry_anderson), [Ragnar Arnason](http://www.nber.org/people/ragnar_arnason): w16519.

September 2010: [Institutional Path Dependence in Climate Adaptation: Coman's "Some Unsettled Problems of Irrigation"](http://www.nber.org/papers/w16324)
w16324.

November 2010: [Water Rights](http://www.nber.org/reporter/2010number4/libecap.html), NBER Reporter 2010 number 4

July 2010: [An Integrated Assessment of Water Markets: Australia, Chile, China, South Africa and the USA](http://www.nber.org/papers/w16203) with [R. Quentin Grafton](http://www.nber.org/people/r_quentin_grafton), [Clay Landry](http://www.nber.org/people/clay_landry), [Sam McGlennon](http://www.nber.org/people/sam_mcglennon), [Robert O'Brien](http://www.nber.org/people/robert_o_brien): w16203.

April 2010: [Interest Groups, Information Manipulation in the Media, and Public Policy: The Case of the Landless Peasants Movement in Brazil](http://www.nber.org/papers/w15865)
with [Lee J. Alston](http://www.nber.org/people/lee_alston), [Bernardo Mueller](http://www.nber.org/people/bernardo_mueller): w15865.

March 2010: [Large Scale Institutional Changes: Land Demarcation Within the British Empire](http://www.nber.org/papers/w15820)
with [Dean Lueck](http://www.nber.org/people/dean_lueck), [Trevor O'Grady](http://www.nber.org/people/trevor_ogrady): w15820.

March 2010: [Water Markets: Australia's Murray-Darling Basin and the US Southwest](http://www.nber.org/papers/w15797)
with [R. Quentin Grafton](http://www.nber.org/people/r_quentin_grafton), [Clay Landry](http://www.nber.org/people/clay_landry), [Robert J. O'Brien](http://www.nber.org/people/robert_o_brien): w15797.

December 2009: [Climate Variability and Water Infrastructure: Historical Experience in the Western United States](http://www.nber.org/papers/w15558) with [Zeynep K. Hansen](http://www.nber.org/people/zeynep_hansen), [Scott E. Lowe](http://www.nber.org/people/scott_lowe): w15558.

May 2009: [The Demarcation of Land and the Role of Coordinating Institutions](http://www.nber.org/papers/w14942)
with [Dean Lueck](http://www.nber.org/people/dean_lueck): w14942.

November 2007: [Open-Access Losses and Delay in the Assignment of Property Rights](http://www.nber.org/papers/w13642)
w13642.

March 2007: [Water Markets in the West: Prices, Trading, and Contractual Forms](http://www.nber.org/papers/w13002)
with [Jedidiah Brewer](http://www.nber.org/people/jedidiah_brewer), [Robert Glennon](http://www.nber.org/people/robert_glennon), [Alan Ker](http://www.nber.org/people/alan_ker): w13002.

October 2006: [The Assignment of Property Rights on the Western Frontier: Lessons for Contemporary Environmental and Resource Policy](http://www.nber.org/papers/w12598) w12598.

December 2004: [The Determinants of Progressive Era Reform: The Pure Food and Drugs Act of 1906](http://www.nber.org/papers/w10984) with [Marc T. Law](http://www.nber.org/people/marc_law): w10984.

September 2004: [Transaction Costs: Valuation Disputes, Bi-Lateral Monopoly Bargaining and Third-Party Effects in Water Rights Exchanges. The Owens Valley Transfer to Los Angeles](http://www.nber.org/papers/w10801)
w10801.

November 2013: [Small Farms, Externalities, and the Dust Bowl of the 1930's](http://www.nber.org/papers/w10055)
with [Zeynep K. Hansen](http://www.nber.org/people/zeynep_hansen): w10055.

June 2000: ["Rain Follows the Plow" and Dryfarming Doctrine: The Climate Information Problem and Homestead Failure in the Upper Great Plains, 1890-1925](http://www.nber.org/papers/h0127)
with [Zeynep Kocabiyik Hansen](http://www.nber.org/people/zeynep_hansen): h0127.

May 1999: [The Self-Enforcing Provisions of Oil and Gas Unit Operating Agreements: Theory and Evidence](http://www.nber.org/papers/w7142) with [James L. Smith](http://www.nber.org/people/james_smith): w7142.

April 1997: [The Great Depression and the Regulating State: Federal Government Regulation of Agriculture: 1884-1970](http://www.nber.org/papers/w5986), w5986.

January 1996: [The Determinants and Impact of Property Rights: Land Titles on the Brazilian Frontier](http://www.nber.org/papers/w5405) with [Lee J. Alston](http://www.nber.org/people/lee_alston), Robert Schneider: w5405.

September 1991: [The Rise of the Chicago Packers and the Origins of Meat Inspection and Antitrust](http://www.nber.org/papers/h0029), h0029.

Other:

“A Bargain for Tuna: Coasean Bargaining to Preserve Big Eye Tunas,” Dan Ovando, Gary Libecap, Lennon Thomas, and Kat Milage, UCSB, Sustainable Fisheries Group.

“Principles and Practices to Enable Incentive Based Change in (Tuna) Fisheries in ABNJ,” Global fishery research group, World Wildlife Fund.

## Articles

“The Critical Role of Markets in Climate Change Adaptation,” *Climate Change Economics*, January 2019.

“Expanding Water Markets in the Western United States: Barriers and Lessons from Other Natural Resource Markets,” with Bryan Leonard and Christopher Costello, *Review of Environmental Economics and Policy*, forthcoming 2019.

“Collective Action by Contract: Prior Appropriation and the Development of Irrigation in the Western United States,” Bryan Leonard and Gary D. Libecap, *Journal of Law and Economics,* 2019.

“Augmenting Summer Streamflow: An Innovative Approach in the Teton River, Idaho,” Kate Burchenal, Morgan Campbell, Lucy Hedley, Emily Honn, Tessa Reeder, and Gary D. Libecap, *Water Report,* 173, July 2018.

 “Water Markets as Adaptation to Climate Change in the Western United States,” *Water Economics and Policy*, July 2018.

 “How Transaction Costs Obstruct Collective Action: The Case of California’s Groundwater,” Andrew B. Ayres, Eric C. Edwards, and Gary D. Libecap, *Journal of Environmental Economics and Management,* 2018.

“An Illiquid Market in the Desert: Estimating the Cost of Water Trade Restrictions in Northern Chile,” Eric C. Edwards, Oscar Cristi, Gonzalo Edwards, and Gary D. Libecap, *Environment and Development Economics,* 2018.

“Expanding Water Markets in the Western United States: Barriers and Lessons from Other Natural Resource Markets,” Bryan Leonard, Christopher Costello, and Gary D. Libecap, *Review of Environmental Economics and Policy,* 2018.

“What Factors Influence the Expansion of Environmental Water Markets?” Alex Bennett, Lillian Burns, Adriel Leon, Martin Merz, Patricia Song, and Gary D. Libecap. *Water Report* 148, June 2016.

“Urban Water Conservation in Southern California: Encouraging Conservation through Tradeable Allocations and Market Mechanisms,” Jim Bond, Mary-Sophia Motlow, Lauren Steely, Dean Wang, and Gary D. Libecap, *Water Report* 136, June 2015.

“Endogenous First-Possession Property Rights in Open-Access Resources,” Bryan Leonard and Gary D. Libecap, *Iowa Law Review* 2015.

“Shopping for Water: How the Market Can Mitigate Water Shortages in the American West,” with Robert Glennon and Peter W. Culp, Island Press and Hamilton Project/Brookings Institution, October 2014. *Wall Street Journal*.

“Addressing Global Environmental Externalities: Transaction Costs Considerations,” *Journal of Economic Literature* June 2014

“A Comparative Assessment of Water Markets: Insights from the Murray-Darling Basin of Australia and the Western US” by R. Quentin Grafton, Gary D. Libecap ,Eric C. Edwards, R.J. (Bob) O’Brien, Clay Landry, *Water Policy* 2012.

"Large Scale Institutional Changes: Land Demarcation within the British Empire" with Dean Lueck and Trevor O’Grady, *Journal of Law and Economics* 2011

“The Demarcation of Land and the Role of Coordinating Institutions,” *Journal of Political Economy*, with Dean Lueck, June 2011

“An Integrated Assessment of Water Markets: A Cross-Country Comparison” R. Quentin Grafton, Gary D. Libecap, Samuel McGlennon, Clay Landry, and R.J. O’Brien, *Review of Environmental Economics and Policy*, volume 5, issue 2, summer 2011, 219–239

“Institutional Path Dependence in Adaptation to Climate: Coman’s “Some Unsettled Problems of Irrigation” *American Economic Review*, February 101(1). 2011.

“Efficiency Advantages of Grandfathering in Rights-Based Fisheries Management,” Terry Anderson, Ragnar Arnason, and Gary D. Libecap, *Annual Review of Resource Economics*, 2011.

“The Economic Institutions of Water,” Gary D. Libecap, *National Bureau of Economic Research Reporter,* 2011.

“The Political Economy of Property Rights,” *EKONOMIAZ* 2011.

“Water Woes: Using Markets to Quench the Thirst of the American West,” *Milken Institute Quarterly*, October 58-68, 2010.

“Call to Action: Transitions and Tipping Points in Complex Environmental Systems” *Environment* 52(1): 38-45. Susan Stafford, Gary Libecap and other members of the NSF Advisory Committee for Environmental Research and Education. 2010.

“Tipping our Science: New NSF Report Recommends Interdisciplinary Approach to Study Natural and Social Systems" *EOS Forum* Susan Stafford, Gary Libecap and other members of the NSF Advisory Committee for Environmental Research and Education. 2010.

“The Tragedy of the Commons: Property Rights and Markets as Solutions to Resource and Environmental Problems,” *Australian Journal of Agricultural and Resource Economics*, , 53: 129-44. 2009.

“Property Rights and the Public Trust Doctrine in Environmental Protection and Natural Resource Conservation,” *Australian Journal of Agricultural and Resource Economics*, 53: 1-17, with Jedidiah Brewer. 2009.

“Positioning Fisheries in a Changing World” *Marine Policy*, with R. Quentin Grafton, Ray Hilborn and others. 2008.

“Agricultural Water to Municipal Use: The Legal and Institutional Context for Voluntary Transactions in Arizona” coauthors (no lead author) Susanna Eden, Robert Glennon, Alan Ker, Gary Libecap, Sharon Megdal, and Taylor Shipman. *The Water Report***,**58, December 15, 19-20. 2008.

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Funded Research

Fishery ITQ Allocation, The Nature Conservancy, co PI 2018-2019.

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“Local Informal Property Rights to Open Access Resources,” Earhart Foundation, 2015. PI

All-UC Environmental Markets, MRPI Planning Grant, 2014-16. Overall PI.

“NSF Dissertation Year Support, Groundwater Management Institutions,” Eric Edwards, Gary Libecap PI, 2014-16.

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“Demarcation of Property Rights,” Earhart Foundation, 2011. PI

“IGERT—ConvEne: Conversion of Energy through Molecular Platforms” National Science Foundation Advisor, 2008-

“California Water Transfer Data Base” UC Center for Water Resources, Principal Investigator, 2008-2009

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"An Investigation in the Nature and Content of Customary Fishing Rights and Practices in the Texas Bays," Seagrant, Texas A&M University, Co-Principal Investigator, 1980-1981.

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Administrative Fund Raising

Eco-entrepreneurship, Bren School, UCSB.

Successfully raised $17,000,000to endow the Karl Eller Center University of Arizona. Additional fundraising (non-endowment) total over $5,000,000.

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Referee

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*American Journal of Agricultural Economics*

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*National Science Foundation*

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*Explorations in Economic History*

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*Business History Review*

*Quarterly Journal of Economics*

 *Environment and Development Economics*

*The Energy Journal*

*Plos One*

*Essays in Economic and Business History*

Teaching Experience

Erskine Fellow, Economics Department, University of Canterbury, New Zealand, 2019.

Pitt Professor, Economics Faculty, Cambridge University, 2010-11

Visiting Professor, University Paul Cezanne, Aix en Provence, Faculty of Applied Economics, June 2007.

Visiting Professor, University of Paris I, Spring, Transaction Costs and Natural Resource/Environmental Regulation 2005

Olin Visiting Professor, California Institute of Technology, Spring.

The Economics of Property Rights1993

Olin Visiting Professor, The Law Center, University of Southern California, Fall,

Government Regulation and the Law1992.

Professor, Corporate Environmental Management, Bren School of Environmental Science and Management, UCSB, 2006-Present.

 Professor, Economics, UCSB, 2006-Present.

Professor, Law School, University of Arizona, Tucson, Arizona, Regulation and Antitrust, Economics and Law. 1994-2006.

Professor, Department of Economics, University of Arizona, Tucson, Arizona, Law and Economics, Competitive Strategy, Natural Resource Economics, American Economic History, Intermediate Microeconomics, Industrial Organization, 1987-2006.

Associate Professor, Department of Economics, University of Arizona, Tucson, Arizona, 1984-1987.

Associate Professor, Department of Economics, Texas A&M University, College Station, Texas. American Economic History, Natural Resource Economics, Intermediate Micro Theory, Law and Economics., 1980-1984

Assistant Professor, Department of Management, Texas A&M University.

Applied Microeconomics, 1979-1980.

Assistant Professor, Department of Economics, University of New Mexico-Albuquerque.

Industrial Organization, Microeconomics, American Economic History, 1977-1979.

Law School, University of New Mexico.

Economic Analysis of Tort Law, 1977-1978.

Executive Education Courses

Competitive Advantage; Regulation. College of Business, Executive Education Program. Sundt Corp. Greyhound Financial Corporation, FINOVA Group. 1987-2004.

Foreign Teaching Experiences

Transaction Costs and the Common Pool, University of Canterbury, 2019; Cambridge University, 2010-11; University of Paris, 2005; European School on New Institutional Economics, Corsica 2003, 2005, 2007, 2009; Economics, Free University of Berlin, 1997; Entrepreneurship and Competitive Strategy: University of World and National Economics, Sofia, Bulgaria, 1991; Czechoslovak Management Center, Prague, Czechoslovakia, 1993; Janus Pannonius University, Pecs, Hungary, 1993; Property Rights and Economic Development, Montevideo, Uruguay, 1990.

University Administration

Co-Chair Personnel Committee, Bren School, UCSB, 2017-18.

All-UC Environmental Markets, 2014-2017.

Sustainable Water Markets Program, Bren School, 2014-

UCE3, Co Director, 2012-

Personnel Committee, Bren School 2012-

PhD Curriculum Committee, Bren School, 2012-

Search Committee, Environmental Politics and Policy, Bren School, 2012

Search Committee, Environmental Economics, Bren School 2011-12

UCE3, Steering Committee, 2011-

Personnel Committee, Bren School 2011-

Member Committee on Academic Planning and Resource Allocation, UCSB, 2009-10

Board of Advisors, IGCC, UCSB Representative, 2007-10

Search Committee, Corporate Environmental Management, UCSB, Chair, 2008-10

Board of Advisors, Technology Management Program, College of Engineering, UCSB, 2006-10

Masters of Environmental Science and Management Committee, Bren School, UCSB, 2006-8.

Search Committee—Environmental Law, Bren School, UCSB, 2006-7.

Search Committee, Head—Resource Productivity, Bren School, UCSB, 2007-8.

Personnel Committee, Chair, Bren School, UCSB, 2008-9.

Personnel Committee, Bren School, UCSB, 2007-8.

Faculty Executive Committee, Bren School, UCSB, 2007-9.

Director, Karl Eller Center, College of Business and Public Administration, University of Arizona, 1984-2005.

College Search Committee, Development Officer, 2004-5.

College Promotion and Tenure Committee, 2004-5.

University Intellectual Property Committee, 2003-

University Search Committee, Director Technology Transfer Office, 2002.

Dean Review Committee, College of Business and Public Administration, University of Arizona, 2002.

Department of Agricultural Economics Department Head Search Committee, 2001.

Department of Agricultural Economics Program Review Committee, 2001.

Chair, Department Head Search Committee, Department of Economics, University of Arizona, 2001.

Department Head Search Committee, Department of Agricultural and Resource Economics, 2001.

Faculty Status Committee, Eller College of Business and Public Administration, University of Arizona, 2001, 2003.

University Review Committee for the Dean of the College of Education, 1996.

College Review Committee for the Director of the School of Public Administration, Chair, 1996.

University Academic Program Review Committee, Department of Agricultural Economics, Chair, 1991.

Administrative Committee, College of Business and Public Administration, University of Arizona, 1984-Present. Economics Department, Self-Study Review Committee, 1990.

Promotion and Tenure Committee, Economics Department, University of Arizona, 1985-1989, 1991, 1993, 1995-98.

Promotion and Tenure Committee, School of Public Administration and Policy, University of Arizona 1989-1990.

Research Committee, College of Business and Public Administration, University of Arizona, 1985-Present.

Sabbatical Review Committee, College of Business and Public Administration, University of Arizona, 1993-1994.

External Review Committee, Economics Graduate Program, Washington State University, 1989.

Search Committee for Dean, Social and Behavioral Sciences, University of Arizona, 1986.

Search Committee for Head, Department of Finance, University of Arizona, 1986.

Search Committee for Head, Department of Management, University of Arizona, 1985.

Search Committee for Dean, Liberal Arts, Texas A&M University, 1984.

Visiting Staff Member

Los Alamos Scientific Laboratory, Technological Assessment, 1979.

PhD Committees

Chair, Daniel Szmurlo, Economics Department, 2018-

Member, Patrick Callery, Bren School, 2017-2018.

Member, Sara Sutherland, Bren School 2016-2017.

Chair, Andrew Ayres, Bren School, 2015-2018.

Chair, Bryan Leonard, Economics Department, 2014-2017.

Chair, Karin Donhowe, Economics Department, 2015-2017.

Chair, Eric Edwards, Bren School 2009-2014

 Chair, Zack Donohew, Bren School, 2007-2012

 Chair, Trevor O’Grady, Bren School, 2008-2013

 Chair: Jeffrey Fuller, Economics, Arizona, 1997

 Chair: Joseph Bial, Economics, Arizona, 1999

 Chair: Zeynep Hansen, Economics Arizona, 2003

 Member: Rebecca Toseland, Economics, UCSB 2009-2014

 Member: James Nachbaur, Bren School, UCSB, 2007.

 Member: Marc Conte, Bren School, UCSB, 2007.

 Member: Dominic Parker, Bren School, UCSB, 2007-9.

 Member: Christopher Guo, Economics, UCSB, 2010-12

Professional Associations

American Economics Association

Economic History Association

Western Economics Association International

Association of Environmental and Resource Economists

Cliometrics Society

National Bureau of Economic Research

International Society for New Institutional Economics

American Economics and Law Association

Hoover Institution

Property and Environment Research Center

Presentations

ASSA meetings (1976, 1982, 1988, 1996, 1998, 2002, 2004, 2006); Western Economics Association (1976-1980, 1982, 1988, 1990, 1993, 1998, 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2015); Southern Economics Association (1979, 1985); Economic History Association (1977, 1978, 1980, 1982, 1984, 1988, 1989, 1990, 1992, 1993, 1996, 1997, 1999, 2000, 2001, 2002, 2003, 2004, 2006, 2012); Cliometrics Society (1975, 1976, 1979, 1982, 1984-1991, 2001); Public Choice Society (1976, 1978, 1982, 1987, 1990); U.S.-Hungarian Economic Roundtable (1989); Conference on the New Institutional Economics (1985, 1988, 1992, 1994); Conference on Rights-Based Fishing (1988); Conferences on Indian Lands and Property Rights (1987, 1989); Conference on Land Tenure and Development in Mexico (1984); Legal Institute for Economists (1989); All Washington D.C. Economic History Seminar (1989); Institutions and Economic Development, Fulbright Commission (1990), Mont Pelerin Society (1990, 1991, 2005); NBER/DAE Summer Institute (1990, 1991, 1993, 1995, 1997, 2000, 2001, 2003, 2004), OECD Conference on Entrepreneurship Training in Eastern Europe (1991), NSF Conference on International Relations and Common Pool Resources, Harvard (1992, 1993); All University of California Economic History Conference (1988, 1993, 2000); Nyvagar Conference on Common Property Resources, Lofoton, Norway (1993), NBER Conference on Political Economy and Regulation (1993), Conference on the Political Economy of Rent Seeking and Conflict, UC, Irvine (1994), Conference on Privatization: A Worldwide Perspective (1994); Conference on Law and Economics, Saarbrucken (1995); Stanford/All UC Conference on Economic Development in Latin America 1996, 2004); International Cliometrics Conference (1997); Bellagio Conference on Latin American Economic Development (1997), International Conference on Institutions and Economic Development, Sao Paulo Brazil (1998), Conference on the Role of the State in Regulated Economies, Uppsala, Sweden (1999), Workshop on Institutional Economics, Max-Planck-Institut, Jena, Germany (1999), Seminar on Economics and Democracy in Transitional Economies, International Center for Economic Research, Turin (2000), 4th Annual Toulouse Conference on Environment and Resource Economics (2001), Conference on the Evolution of Property Rights, Northwestern Law School (2001), National Bureau of Economic Research, Summer Institute (1996, 1998, 1999, 2001, 2002, 2009, 2011), International Society for New Institutional Economics, ISNIE (1998, 2000, 2002, 2003, 2004, 2005, 2006, 2015), Canadian Resource and Environmental Economics Meetings (2002), Research Group on Political Institutions and Economic Policy, Harvard (2002, 2003, 2004), Coase Institute, MIT, Budapest, Tucson (2002, 2003, 2004), Stanford Conference on Latin American Economic Development, (2003), Conference on Path Dependence, Stockholm (2004), Australian Resource and Environmental Economics Society Meetings (2004), New Zealand Treasury (2004), Sharing the Fish 06 Conference in Perth, Western Australia (2006), Tuna Rights Conference, La Jolla (2006), Fishery ITQs (Reykjavik, 2006), Association of Environmental Professionals, San Luis Obispo (2007), Western Water Forum (UCSB, 2007), University of Arizona Program in Law, Economics, and the Environment (2007), Immigration of Land Law Conference, Radzyner School of Law, Herzliya, Israel (2007), NBER Neemrana Conference on Indian Economic Development and Resource Use (2008), Cargese, Corsica Conference on Which Governance for Which Environment? (2008), NBER Summer Institute (2008), Productivity Commission, Canberra, Melbourne (2008), International Water Society, Berkeley (2009), NBER Spring Program Meeting (2010), All-Chicago Economic History Plenary Lecture (2012), NBER Summer Institute (2012), Inter American Development Bank (2012), Hoover Institution (2012), “Tackling the Global Fisheries Challenge” Conference, PERC (2012); Veblen Lecture, Carleton College, (2013), ASU-MBL Workshop on History of Sustainability Science, Woods Hole, (2013), International Society for New Institutional Economics, Florence (2013) (2015), Dan and Carole Burack President’s Distinguished Lecture, University of Vermont (2013), Bergen University Law School and Norwegian School of Economics (2014), Western and Central Pacific Tuna Management Council (2014), Coase Institute Conference, Manila, Philippines (2014), Washington D.C. Conference in Honor of Ronald Coase (2015), ASU Conference on Sustaining the Commons (2015), Michigan State University Fate of the Earth Symposium (2015), CalTech, Water Allocation in California (2016), Coasean Environmental Markets, Xiamen University, China (2016), Coasean Institutions and the Environment, Estonian Business School (2016), Prior Appropriation Water Rights (SIOE meetings—ISNIE, Paris, 2016), Fishery Quota Allocation Reykjavik, Torshavn, and Lima, Peru, 2016-2017); Ronald Coase Institute, Xiamen, China (2017). Coasean Environmental Markets, Bogota, Columbia 2017.

University seminars:

Columbia University; University of South Carolina; Harvard University; Washington University; University of Washington; University of Arizona; UCLA; USC; VPI; Northwestern University; University of Michigan; Texas A&M University; University of Texas; Indiana University; Montana State University; Arizona State University; University of Chicago; BYU; Utah State University; University of Colorado; George Mason University; UC Irvine; Cal Tech; Yale University; UC Berkeley; UC Riverside; University of Hawaii; University of Wyoming, MIT; UC Davis; Stanford University; University of Pennsylvania; University of Maryland; UC Santa Barbara; Université de Bourgogne, Dijon, France; University of Paris I, Pantheon/Sorbonne; University of Paris X; Ohio State University; Colorado State University; Reed College; University of Puget Sound; University of Manitoba; University of Tel Aviv, Law and Environment Workshop; Northwestern Law School, Oregon State University; University of Montpellier; University of Toulouse; East Anglia University; Prague School of Economics; University of Glasgow; University of Cambridge; Hong Kong Polytechnic University; Oxford University; Radzyner School of Law ; Fudan University; Peking University; Xiamen University; University of Vigo Spain; Whitman College, Tsinghua University, Beijing, Yale Economics Department, Northwestern Economics Department, Boston University, Carleton College, University of Vermont, University of Bergen, NYU Law School, Duke University Law School, Indiana University, Xiamen University, UC Davis, UCLA, Florida State University, Harvard Law School, University of Tel Aviv, Florida State University, Carnegie Mellon, SUNY Binghamton, University de los Andes, Bogota, Columbia.