**GARY D. LIBECAP**

Distinguished Professor, Emeritus, 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.

Erskine Professor, University of Canterbury, New Zealand, 2019.

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

Faculties of: UCSB, Stanford, Cambridge University, University of Canterbury, Caltech, University of Paris, Free University of Berlin, Texas A&M, University of New Mexico, University of Arizona.

President, 2006, Economic History Association.

President, 2006, Western Economics Association International.

President, 2005, International Society for the New Institutional Economics--Society for Institutional and Organizational Economics .

Vice President, Economic History Association, 2000-2001.

Professor, Economics Department and Law School, University of Arizona.

Director, Karl Eller Center, University of Arizona.

Associate Professor, Department of Economics, Texas A&M University.

Assistant Professor, Department of Economics and Law School, University of New Mexico.

Senior Research Fellow, Hoover Institution, Stanford 2017-2020.

Research Fellow, Hoover Institution, Stanford 2013-17.

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

Robert Wesson Fellow, Hoover Institution, 2005.

**Editorships**

“Economic Perspectives on Climate Change, Agriculture, and Water,” National Bureau of Economic Research and US Department of Agriculture, co-organizer and co-editor, University of Chicago Press. 2022.

Co-Editor, *Journal of Economic History*, 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, 2010.

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

Editor, *Advances in the Study of Entrepreneurship, Innovation, and Economic Growth*, 1985-2006. Elsevier and Emerald Series.

**Awards**

“Elinor Ostrom Lifetime Achievement Award,” June 2021, SIOE, Society for Institutional and Organizational Economics (formerly ISNIE, International Society for New Institutional Economics.

"Best Article for 1992," "The Rise of the Chicago Packers and the Origins of Meat Inspection and Antitrust," *Economic Inquiry*, Editorial Board.

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

Karl Eller Center, McGuire Entrepreneurship Program designed #2 in the country by *Entrepreneur Magazine*, 2004, 2005.

Karl Eller Center: National Model Program, National Association of Small Business and Entrepreneurship, 1989, 2002.

Karl Eller Center, TOP 25 in Country for Entrepreneurship. *Success Magazine* 1994, 1996, 1998.

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. Co-author.

Rutgers Research Council Fellowship, 1976.

University of Pennsylvania Dissertation Year Fellowship, 1975-1976.

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

**Visiting Scholar, Lectureships, and Fellowships**

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

Pitt Professor, University of Cambridge, 2010-2011.

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

Lone Mountain Research Fellow, Property and Environment Research Center, 2012.

Julian Simon Fellow, Property and Environment Research Center, 2004.

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,” 2005.

Invited Lecturer, European School on New Institutional Economics, “Contracting for Property Rights in Environmental and Natural Resources,” Corsica, France, 2009, 2005, 2009.

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

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John M. Olin Fellow in Law and Economics, Cornell Law School, 1996.

John M. Olin Fellow in Law and Economics, USC Law Center, 1992-1993.

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

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

Senior Bradley Fellow, Montana Historical Society, Helena 1999.

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

**Books**

*Economic Perspectives on Climate Change, Agriculture, and Wate*r, National Bureau of Economic Research and University of Chicago Press. 2023, Edited with Ariel Dinar.

*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, 2016.

*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.

## **Peer-Reviewed Articles**

**Most Prominent**

"Economic Variables and the Development of the Law: The Case of Western Mineral Rights," *Journal of Economic History*, June 1978. Reprinted in Lee Alston, Thrainn Eggertsson, and Douglass North, Eds*. Empirical Studies in Institutional Change*, Cambridge University Press, 1996.

"Property Rights, Nineteenth Century Federal Timber Policy and the Conservation Movement," with R.N. Johnson, *Journal of Economic History*, March 1979.

"Legislating Commons: The Navajo Tribal Council and the Navajo Range," with R. N. Johnson, *Economic Enquiry*, January 1980.

"Efficient Markets and Great Lakes Timber: A Conservation Issue Reexamined," with R. N. Johnson, *Explorations in Economic History*, October 1980.

"Bureaucratic Opposition to the Assignment of Property Rights: Overgrazing on the Western Range," *Journal of Economic History*, March 1981.

"Contracting Problems and Regulation: The Case of the Fishery," with R. N. Johnson, *American Economic Review*, December 1982.

"Contractual Responses to the Common Pool: Prorationing of Crude Oil Production," with S. N. Wiggins, *American Economic Review*, March 1984.

"The Influence of Private Contractual Failure on Regulation: The Case of Oil Field Unitization," with S. N. Wiggins, *Journal of Political Economy*, August 1985.

"Oil Field Unitization: Contractual Failure in the Presence of Imperfect Information," with S. N. Wiggins, *American Economic Review*, June 1985.

"Firm Heterogeneities, Contracting, and Cartelization Efforts in Domestic Crude Oil," with S. N. Wiggins, *Journal of Law, Economics, and Organization*, April 1987.

"Property Rights in Economic History: Implications for Research," *Explorations in Economic History*, July 1986.

"Agency Growth, Salaries, and the Protected Bureaucrat," with R. N. Johnson, *Economic Inquiry*, July 1989.

"Bureaucratic Rules, Supervisor Behavior, and the Effect on Salaries in the Federal Government," with R. N. Johnson, *Journal of Law, Economics, and Organization*, April 1989.

"Public Sector Employee Voter Participation and Salaries," with R. N. Johnson, *Public Choice*, January 1991.

"Patronage to Merit and Control of the Federal Government Labor Force," with R. N. Johnson, *Explorations in Economic History*, 1994.

"The Rise of the Chicago Packers and the Origins of Meat Inspection and Antitrust," *Economic Inquiry*, April 1992.Selected by the Editorial Board as the "Best Article for 1992."

“The Determinants and Impact of Property Rights: Land Titles on the Brazilian Frontier,” with Lee Alston and Robert Schneider, *Journal of Law, Economics and Organization*, 1996.

“The Self-Enforcing Provisions of Oil and Gas Unit Operating Agreements: Theory and Evidence,” *Journal of Law, Economics and Organization*, with James Smith. 1999.

“Information Distortion and Competitive Remedies in Government Transfer Programs: The Case of Ethanol,” *The Economics of Governance*, with Ronald N. Johnson. 2001.

“Regulatory Remedies to the Common Pool: The Limits to Oil Field Unitization,” *Energy Journal*, lead article, with James Smith. 2001.

“Rain Follows the Plow and Dry-Farming Doctrine: The Climate Information Problem and Homestead Failure in the Upper Great Plains, 1890‑1925" *Journal of Economic History*, with Zeynep Hansen 2002.

“Transactions Costs and Coalition Stability under Majority Rule,” *Economic Inquiry*, lead article, with Ronald Johnson. 2003.

“The Economic Evolution of Petroleum Property Rights in the United States,” *Journal of Legal Studies*, with James Smith. 2003.

“Small Farms, Externalities, and the Dust Bowl of the 1930s,” *Journal of Political Economy*, with Zeynep Hansen, 2004.

“The Allocation of Property Rights to Land: U.S. Land Policy and Farm Failure in the Great Plains,”*Explorations in Economic History***,** lead article, with Zeynep Hansen. 2004.

“The Assignment of Property Rights on the Western Frontier: Lessons for Contemporary Environmental and Resource Policy” *Journal of Economic History*. 2007.

“Assigning Property Rights in the Common Pool. Implications of the Prevalence of First-Possession Rules for ITQs in Fisheries,” *Marine Resource Economics*, 2007.

“Water Markets in the West: Prices, Trading, and Contractual Forms,” *Economic Inquiry* with Jedidiah Brewer, Robert Glennon, and Alan Ker. 2008.

“Open-Access Losses and Delay in the Assignment of Property Rights,” *Arizona Law Review*, 2008.

“Open-Access Losses and Delay in the Assignment of Property Rights,” *Arizona Law Review*, 2008.

“*Chinatown Revisited*: Owens Valley and Los Angeles—Bargaining Costs and Fairness Perceptions of the First Major Water Rights Exchange.” *Journal of Law, Economics and Organization***.** 2009.

“*Chinatown Revisited*: Owens Valley and Los Angeles—Bargaining Costs and Fairness Perceptions of the First Major Water Rights Exchange.” *Journal of Law, Economics and Organization***.** 2009.

“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.

"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 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.

“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,* 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.

“[Coasean Approaches to Ending Overfishing: Bigeye Tuna Conservation in the Western and Central Pacific Ocean](https://my.nber.org/papers_and_chapters),” Daniel Ovando, Gary D. Libecap, Katherine D. Millage, and Lennon Thomas, 2020, *Marine Resource Economics.*

“Colonial Origins, Property Rights, and the Organization of Agricultural Production: the US Midwest and Argentine Pampas Compared,” Eric C. Edwards, Martin Fiszbein, and Gary D. Libecap, *Journal of Law and Economics.* Special Issue in Honor of Harold Demsetz, Lead Article. 2022.

“American Agriculture Can Adapt to Climate Change-Induced Water Extremes,” *Choices* 38 (4), 2023. Gary D. Libecap and Ariel Dinar, Agriculture and Applied Economics Association.

**Other**

“Cross-sectoral Externalities Related to Natural Resources and Ecosystem Services,” *Ecological Economics*. 2021. With Manuel Bellanger, Robert Fonner, Daniel S. Holland, Douglas W. Lipton, Pierre Scemama, Cameron Speir, and Olivier Thébaud.

“Addressing Marine and Coastal Governance Conflicts in the Interface of Multiple Sectors and Jurisdictions” Manuel Bellanger, Gary D. Libecap and 18 others, *Frontiers in Marine Science: Marine Conservation and Sustainability*, 2021.

“The Critical Role of Markets in Climate Change Adaptation,” *Climate Change Economics*, Gary D. Libecap and 9 others. 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*, 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.

“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.

“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.

“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” with coauthors *The Water Report***,**58, December 15, 19-20. 2008.

“Law and the New Institutional Economics: Water Markets and Legal Change in California, 1987-2005,” *Washington University Journal of Law and Policy*, with Jedidiah Brewer, Michael Fleishman, Robert Glennon, and Alan Ker. 2008.

“Transferring Water in the American West: 1987-2005, *Michigan Journal of Law Reform*, with Jedidiah Brewer, Robert Glennon, and Alan Ker. 2007.

*“Chinatown”* Owens Valley and Western Water Re-Allocation: Getting the Record Straight and What It Means for Water Markets,” *Texas Law Review***,** 2005.

“The Contribution of Entrepreneurship Education: A Case Study,” *International Journal of Entrepreneurship Education*, with Alberta Charney. 2003.

“Learning About the Weather: Dryfarming Doctrine and Homestead Failure in Eastern Montana, 1900-1925,” *Montana: The Magazine of Western History*, 2002.

“The Problem of an Autonomous Bureaucracy in Transitional Economies: Lessons from the American Experience,” *Journal des Economistes et des Etudes Humaines*, 2001.

“The Effect of Cost Heterogeneity in the Success and Failure of the New Deal’s Agricultural and Industrial Programs,” *Explorations in Economic History*, with Barbara Alexander. 2000.

“Property Rights to Land and Land Reform: Legal Inconsistencies and the Sources of Violent Conflict in the Brazilian Amazon,” *Journal of Environmental Economics and Management*, with Lee Alston and Bernardo Mueller. 2000.

“A Model of Rural Conflict: Violence and Land Reform Policy in Brazil,” *Environment and Development Economics*, 4 135-60. With Lee Alston and Bernardo Mueller. 1999.

“Unitization,” *The New Palgrave Dictionary of Economics and the Law*, Peter Newman, ed., 1998.

“Common Property,” *The New Palgrave Dictionary of Economics and the Law*, Peter Newman, ed., 1998.

“Environmental Regulation and Federalism,” *Arizona Law Review*, 1996.

"Courts, A Protected Bureaucracy, and Reinventing Government," with R.N. Johnson, *Arizona Law Review,* 1995.

"Property Rights and the Preconditions for Markets: The Case of the Amazon Frontier," with Lee Alston and Robert Schneider, *Journal of Institutional and Theoretical Economics*, 1995.

"The Failure of Government-Sponsored Cartelization and the Development of Federal Farm Policy," with Elizabeth Hoffman, *Economic Inquiry*, 1995.

"Land, Property Rights, and Privatization in Brazil," with Bernardo Mueller, Lee Alston, and Robert Schneider, *Quarterly Review of Economics and Finance*, Special Issue, 1994.

"The Conditions for Successful Collective Action," *Journal of Theoretical Politics*, pp. 569--598. Reprinted in Robert Keohane and Elinor Ostrom, eds., *Local Commons and Global Interdependence*, Sage Publications. 1994.

"Bureaucratic Issues and Environmental Concerns: A Review of the History of Federal Land Ownership and Management," *Harvard Journal of Law and Public Policy*, 1992.

"Institutional Choice and the Development of U.S. Agricultural Policies in the 1920s," with Elizabeth Hoffman, *Journal of Economic History*, June 1991.

"Comments on Elinor Ostrom's 'Microconstitutional Change in Multiconstitutional Political Systems'," *Rationality and Society*, January 1990.

"The Political Economy of Crude Oil Cartelization in the United States: 1933-1972," *Journal of Economic History*, December, 1989.

"Distributional Issues in Contracting for Property Rights," *Journal of Institutional and Theoretical Economics*, March 1989.

"Deregulation as an Investment in Industrial Policy: Comment**,"** *Journal of Institutional and Theoretical Economics,* March 1986.

"Government Policies Regarding Property Rights to Land: Some U.S. Implications for Agricultural Development in Mexico," *Agricultural History*, Winter 1986.

"The Political Economy of the Establishment of the Interstate Oil Cartel, 1933-1940,"*Research in Economic History*, Supplement 4, 1985, *The Emergence of the Modern Political Economy*.

"The Political Allocation of Mineral Rights: A Reevaluation of Teapot Dome," *Journal of Economic History***,** June 1984.

"Agricultural Productivity, Partible Inheritance, and the Demographic Response to Rural Poverty: An Examination of the Spanish Southwest," with G. Alter, *Explorations in Economic History*, April 1982.

"Agency Costs and the Assignment of Property Rights: The Case of Southwestern Indian Reservations,” with R. N. Johnson, *Southern Economic Journal*, October 1980.

"The Use of Government in Support of Private Claims to Public Minerals," *Business History Review*, Autumn 1979.

"Federal Mineral Policy, the General Mining Law of 1872: A Note," *Natural Resources Journal*, July 1978.

## **Chapters**

“State Regulation of Open-Access, Common-Pool Resources.” Gary D. Libecap. Mary Shirley and Claude Menard, eds. *Handbook of Institutional Economics*. Springer. 2024.

“Introduction” to *Economic Perspectives on Climate Change, Agriculture, and Wate*r, National Bureau of Economic Research and University of Chicago Press. 2023, with Ariel Dinar.

“The Colonial Origins of Diverse Property-Rights to Land and the Long-Term Economic Implications in North and South America,” Eric C. Edwards, Martin Fiszbein and Gary D. Libecap, in Ernst Nordtveit, editor, *The Changing Role of Property Law; Rights, Values, and Concepts*, Edward Elgar. 2023.

“Land Demarcation in Ancient Rome,” Gary D. Libecap and Dean Lueck, in “*Roman Law and Economics* Giuseppe Dari-Mattiacci and Dennis P. Kehoe (eds.), Vol. 2, Oxford University Press, *Oxford Studies in Roman Society and Law* Tom McGinn and Paul Du Plessis, eds. 2019.

“Property Rights [to Frontier Land and Minerals: US Exceptionalism](http://www.nber.org/papers/w24544)” *Handbook of Cliometrics*, Michael Haupert and Claude Diebolt, eds, 2019.

“Property Rights,” *Handbook in American Economic History*, Price Fishback, Louis Cain, and Paul Rhode Ed, Oxford University Press 2018.

“Coasean Bargaining to Address Environmental Externalities,” Elodie Bertrand and Claude Menard, Eds, *The Elgar Companion to Ronald Coase*, 2016.

“Water Sales, Pecuniary Externalities and Local Development: Chinatown Revisited,” *Handbook on Water Economics and Institutions,* James Roumasset and Christopher Wada eds, Earthscan, Routledge, 2015.

“Water Institutions and the Law of One Price,” Eric C. Edwards and Gary D. Libecap, in Robert Halverson and David Layton eds, *Handbook on the Economics of Natural Resources*, Edward Elgar, 2015.

“Water Rights and Markets in the U.S. Semi-Arid West: Efficiency and Equity Issues, “ in *Evolution of Property Rights Related to Land and Natural Resources*, Daniel Cole and Elinor Ostrom, editors, Lincoln Institute, 2011.

“Land Demarcation Systems” Gary D. Libecap and Dean Lueck in Henry Smith and Kenneth Ayotte ed. *Law and Economics of Property*, Research Handbooks in Law and Economics, Richard Posner and Francesco Parisi, editors, Edward Elgar, 2011.

“Property Rights as Solutions to the Problems of Open Access: Options and Constraints” Gary D. Libecap, *Governing Global Environmental Commons: Institutions, Markets, Social Preferences and Political Games*, Eric Brousseau, Tom Dedeurwaerdere, Pierre Andre Jouvet, and Marc Willinger, editors, Cambridge University Press 2011.

 “The Allocation and Dissipation of Resource Rents: Implications for Fishery Reform,” Terry L. Anderson and Gary D. Libecap, in *Political Economy of Natural Resource Use: Lessons for Fisheries Reform*, ed. D Leal, pp. 79−95. Prepared for the Global Program on Fisheries (PROFISH). Washington D.C.: Agriculture and Rural Development Department, World Bank 2010.

“Allocation Issues in Rights-Based Management of Fisheries: Lessons from Other Resources” *Handbook of Marine Fisheries Conservation and Management,* edited by Quentin Grafton, Ray Hilborn, Dale Squires, Maree Tait, and Meryl Williams, Oxford University Press. 572-581, 2010.

 “Rights-Based Management of Tuna Fisheries: Lessons from the Assignment of Property Rights on the Western Frontier,” Robin Allen, James Joseph, and Dale Squires, editors*, Conservation and Management of Transnational Tuna Fisheries,* Ames, Iowa and Oxford: BlackwellPublishers. 137-54, 2010.

“Climate Variability and Water Infrastructure: Historical Experience in the Western United States”, with Zeynep Hansen and Scott Lowe, *Climate Change Past and Present: Uncertainty and Adaptation*, Gary D. Libecap and Richard Steckel eds. NBER and University of Chicago Press. 2010.

“Economic History, Adaptation, and Dealing with Uncertainty in Climate Change,” with Richard Steckel (no lead author) *Climate Change Past and Present: Uncertainty and Adaptation*, Gary D. Libecap and Richard Steckel eds. NBER and University of Chicago Press. 2010.

“Regulation and Deregulation: Property Allocation Issues in Deregulation of Common Pool Resources,” Michael Ghertman and Claude Menard, ed, *Regulation and Deregulation*, Edward Elgar, 2010.

“Transaction Costs, Property Rights, and the Tools of the New Institutional Economics: Water Rights and Water Markets.” Gary D. Libecap, *The New Institutional Economics: A Guidebook.,* Eric Brousseau and Jean-Michel Glachant, eds, Cambridge University Press, 2009.

“Second Degree Path Dependence: Information Costs, Political Objectives, and Inappropriate Small-Farm Settlement of the North American Great Plains,” Lars Magnusson and Jan Ottosson eds., Edward Elgar, 2009.

“Transaction Costs, Property Rights, and the Tools of the New Institutional Economics: Water Rights and Water Markets,” *The New Institutional Economics: A Guidebook*., Eric Brousseau and Jean-Michel Glachant, eds, Cambridge University Press, 2008.

“Making the Environment and Asset: Links between Real and Intellectual Property,” with Terry L. Anderson, Scott Kieff, ed, The Intellectual Property Debate, Cambridge University Press, forthcoming 2009.

“The Determinants of Progressive Era Reform: The Pure Food and Drugs Act of 1906,” with Marc Law, in Edward L. Glaeser and Claudia Goldin Ed*, Corruption and Reform: Lessons from America’s* *Economic History*, Chicago: University of Chicago Press, 2006.

“The Federal Government Bureaucracy: How We Went from Patronage to an Insulated Civil Service System and Why It Matters for the Performance of Government,” *Essays in Honor of Robert Higgs*, Price Fishback ed, University of Chicago Press, 2007.

“The Effects of Property Rights to Land and Other Natural Resources on American Economic Development: Where U.S. Land Policy Worked and Where it Did Not,” *Essays in Honor of Robert Higgs*, Price Fishback, ed, University of Chicago Press, 2007.

“The Effect of Transaction Costs in the Definition and Exchange of Property Rights: Two Cases from the American Experience,” in Enrico Colombatto, ed., *Companion to the Economics of Property Rights*, Edward Elgar Publishers, 2004.

“State Regulation of the Common Pool,” in Claude Menard and Mary Shirley, eds, *The Handbook of the New Institutional Economics*, Kluwer Academic Press, 2004.

“Agricultural Programs with Dubious Environmental Benefits: The Political Economy of Ethanol,” in *Agricultural Policy and the Environment*, Roger Meiners and Bruce Yandle, ed., Edward Elgar, 2003.

“Mixed Experiences with International Environmental Agreements During the Second Half of the Twentieth Century,” in Welf Werner, ed, *Festschrift in Honor of Carl Ludwig Holtfrerich*, 2003.

“Political Constraints on Government Cartelization: The Case of Oil Production Regulation in Texas and Saudi Arabia,” in Peter Grossman, ed*, How Cartels Endure and How They Fail: Studies of Industrial Collusion*, with James Smith, Edward Elgar, 2004.

 “A Transactions Cost Approach to the Analysis of Property Rights,” in Eric Brousseau and Jean-Michel Glachant, eds., *The Economics of Contracts: Theory and Application*, , Cambridge University Press. 2002.

“Property Rights, Natural Resources: Property Rights, Natural Resources: Regulation, Hedges and Fences, Grazing and Ranch Farming, Food Processing Industries,” *Oxford Encyclopedia of Economic History*, Joel Mokyr, editor, Oxford University Press, 2003.

“Contracting for Property Rights,” *The Economics of Property Rights*, Terry Anderson and Fred McChesney, eds., Princeton University Press, 2002.

“Contracting for Mineral Rights,” in the *International Library of Critical Writings in Economics*, the Economics of Property Rights by Svetozar Pejovich, Edward Elgar, 2001.

“Foreword to Hannes Gissurarson*,” Overfishing: The Icelandic Solution*, IEA Studies on the Environment No17, London: Institute of Economic Affairs, 2001.

“An Assessment of the Contribution of Entrepreneurship Education: the Berger Entrepreneurship Program at the University of Arizona, 1985-1999,” with Alberta Charney, in Gary D. Libecap, ed. *Entrepreneurship and Economic Growth in the American Economy*, JAI Press, 2001.

“Property Rights,” *Macmillan Encyclopedia of Energy*, John Zumerchick, editor, Macmillan Reference, USA, 2001.

“Information Distortion by Politicians and Constituent Groups in Promoting Regulatory Transfers: The Case of Ethanol,” in Lars Magnusson and Jan Ottosson, eds, *The State, Regulation and the Economy: An Historical Perspective*, Edward Elgar Publishers, London, with Ronald N. Johnson, 2002.

“Public Choice and the Success of Government-Sponsored Cartels: The Different Experience of New Deal Agricultural and Industrial Policies,” in *Public Choice Interpretations of American Economic History,* Jac C. Heckelman, John C. Moorhouse and Robert Whaples, editors, Kluwer Academic Press, 1999. With Barbara Alexander.

“Property Rights and Land Conflict: A Comparison of Settlement of the U.S. Western and Brazilian Amazon Frontiers,” in *Latin America and the World Economy since 1800*, John H. Coatsworth and Alan M. Taylor, Cambridge: Harvard University Press, With Lee Alston, Bernardo Mueller. 1998.

"Distributional and Political Issues in Modifying Traditional Common-Property Institutions," in Erling Berge, Derek Ott, and Nils Chr. Stenseth (eds.) *Law and the Governance of Renewable Resources*, Institute for Contemporary Studies, 1998.

“The Great Depression and the Regulating State: Federal Government Regulation of Agriculture: 1884-1970,” in Michael D. Bordo, Claudia Goldin, and Eugene N. White, eds, *The Defining Moment: The Great Depression and the American Economy in the Twentieth Century*, Chicago: University of Chicago Press and NBER, 1997.

“Reinventing the Federal Civil Service,” with R.N. Johnson, in Gary D. Libecap, ed. *Reinventing Government and the Problem of Bureaucracy*, Greenwich, CT: JAI Press, 1996.

"The Development of Property Rights to Land: When is Violence Part of Institutional Change?" in John Drobak and John Nye, eds*., Frontiers of the New Institutional Economics*, San Diego: Academic Press. With Lee Alston and Bernardo Mueller. 1997.

"Violence and the Assignment of Property Rights on Two Brazilian Frontiers," in Michelle R. Garfinkel and Stergios Skaperdas, eds., *The Political Economy of Rent Seeking and Violence*, Cambridge University Press, With Lee Alston and Robert Schneider. 1996.

"The Demand and Supply of Property Rights on the Frontier: The Cases of North America and Brazil," in T.L. Anderson and P.J. Hill, eds., *The Privatization Process: A Worldwide Perspective*, Rowman and Littlefield, With Lee Alston and Robert Schneider. 1996.

"Political Bargaining and Cartelization in the New Deal: Orange Marketing Orders," with Elizabeth Hoffman, in Claudia Goldin and Gary Libecap, (eds.) *The Political Economy of Regulation: An Historical Analysis of Government and the Economy*, University of Chicago Press, 1994.

"Property Rights and Entrepreneurship," in Gary D. Libecap, (ed.) *New Learning on Entrepreneurship*, JAI Press, 1993.

"The Political Economy of Institutional Change: Property Rights and the General Revision Act of 1891," in John James and Mark Thomas (eds.) *Capitalism in Context*, University of Chicago Press, 1994.

"Institutions and Economic Growth: The Contributions of Douglass C. North," in Warren Samuels (ed.) *New Horizons in Economic Thought: An Appraisal of Ten Leading Economists*, Edward Elgar, 1992.

"Teapot Dome Revisited: Regulatory Policy and Costly American Oil," in D. N. McCloskey (ed.) *Second Thoughts: The Uses of American Economic History*, Oxford University Press, 1992.

"Experimental Methods to Advance Historical Investigations: An Examination of Cartel Compliance by Large and Small Firms," with B. Binger and E. Hoffman, in Joel Mokyr (ed.) *Essays in Honor of Jonathan R. T. Hughes*, Cambridge University Press, 1991.

"Anthony Scott's Conceptual Origins of Rights Based Fishing: Comment" and "Conceptual Constructs for Practical ITQ Management Policies: Comment," in P. A. Neher, R. Arnason and N. Mollet (eds.) *Rights Based Fishing*, Kluwer Academic Publishers, 1989.

"Regulatory Constraints on Oil and Gas Production on Federal Lands," in Robert Deacon and Bruce Johnson (eds.) *Forest Lands Public and Private*. Ballinger, 1985.

"The Navajo and Too Many Sheep: Persistent Overgrazing on the Navajo Reservation," with R. N. Johnson, in John Baden and Richard Stroup (eds.) *Bureaucracy vs. Environmental Costs of Bureaucratic Government*, University of Michigan Press, 1981.

**Working papers:**

 **NBER**:

January 2024. User Rights for Ecosystem Conservation. w32079.

December 2023. Variation in State Responses to Open Access: Constituent Characteristics. w32021.

July 2022. American Agriculture, Water Resources, and Climate Change, with Ariel Dinar, w30290.

September 2020. [Colonial Origins, Property Rights, and the Organization of Agricultural Production: the US Midwest and Argentine Pampas Compared](https://my.nber.org/papers_and_chapters) Eric C. Edwards, Martin Fiszbein, and Gary D. Libecap, w27750

August 2020. [Coasean Approaches to Ending Overfishing: Bigeye Tuna Conservation in the Western and Central Pacific Ocean](https://my.nber.org/papers_and_chapters) Daniel Ovando, Gary D. Libecap, Katherine D. Millage, and Lennon Thomas, w27801

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 [S. 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 Mc Glennon](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 Dry-Farming 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.

**Media**

“Wall Street Eyes Billions in the Colorado,” Ben Ryder Howe*, New York Times*, Business, January 3, 2021. Listed contributor.

"Op Ed Debate with Christine Todd Whitman on the EPA under the Trump Administration,” *New York Times* December 9, 2016.

“Webinar: Devising a Research Strategy: The Economics of Land Demarcation,” Ronald Coase Institute, December 1, 2020.

“Webinar: A Conversation on Water Futures” Thursday, January 28, 2021, Sustainable Water Markets Program, UCSB.

“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*.

**Research Reports**

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

**“**Principles for Fishery Management in Areas Beyond National Jurisdiction—the Essential Role of Incentive Based Approaches,” Gary Libecap and 12 other authors, *World Wildlife Fund* December 2018.

“Principles and Practices to Enable Incentive Based Change in (Tuna) Fisheries in All but National Jurisdictions,” Global Fishery Research Group, World Wildlife Fund, September 2017.

**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.

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.

**Professional Advisory Committees**

Fellow Selection Committee, IIFET (International Institute of Fishery Economics and Trade, 2023.

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 University, 2015-2018.

Fellow, the Economics and Science Group, Australian National University, 2015-2021.

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

Research Associate, Center for Water Economics, Environment and Policy, Australian National University, 2009-2021.

Advisory Board, German Prodigy Research in the Amazon, 2020-2021.

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

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

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

Panelist, National Science Foundation, Dynamics of Integrated Socio-Environmental Systems (DISES), 2021.

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

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

Panelist, NSF, 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, 2008

Panelist, NSF, Biocomplexity, 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.

**Plenary Addresses**

Keynote: Conference on the Advantages and Disadvantages of Strong User Rights in Fisheries, Copenhagen, October 2023: “Marine Ecosystem Protection through User Rights Rather than Marine Protected Areas.”

Community Presentation: Reykjavik, University of Iceland, October 2023. The Critical Role of Property Rights in Resource Use and Conservation: The Case of the Fishery.

“Property Rights” Presentation in Honor of Harold Demsetz, UCLA Economics, May 2022.

Panel Address, Association of State Attorney Generals, “Water Markets and Compensation for Rural Communities,” Maui, 2021.

Panel Address, Former Presidents, Society for Organization, and Institutional Economics, “Transaction Costs, Interest Group Lobbying, and Environmental Policies,” 2021.

Keynote Address, ASU Center for the Study of Economic Liberty, “American Exceptualism: Property Rights to Land in the US and Argentina: The Long-term Impact on Individualism, Liberty, Optimism, Political Stability, and Economic Growth,” Tempe, Arizona November 2019.

Keynote Address, Law and Economics Society, Wellington New Zealand, “Cost/Benefit Analysis and Impact on Māori and other Constituent Groups of Marine Protected Areas.” May 2019.

Keynote Address, Berry Family Lecture, University of Richmond, “The Role of Property Rights in Explaining the Differential Performance of North and South America in Economic Growth and Political Stability.” January 2019.

Keynote Address: The Allocation and Protection of Fishery Property Rights in Peru,” October 2018, The Nature Conservancy, SNP, the Commercial Fishery Organization, and the Ministry of Fisheries. Lima, Peru.

Keynote Address: Federal Lands, Opportunity Costs, and Bureaucratic Management,” Hoover Institution, Washington D.C. May 2018.

Keynote Address: Douglass C. North: Transaction Costs, Property Rights, and Economic Outcomes, Conference in Honor of Douglass C. North, Stanford and George Mason University, March 2018.

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.

**Invited Lectures**

“Urban Water Pricing and Consumption in the Colorado Basin,” ASU, April 2023.

“Federal Lands: Origins and Opportunity Costs,” Stanford Law School, Law and Economics Workshop; Harvard Law School, Law and Economics Workshop, 2022.

Reviewer/Discussant, INSTREAMS, Integration of Institutional Regimes across Multiple Sectors to Manage Fishers and other Resources, Workshop, June 2019, Brest, France.

“Property Workshop”, Solstrand, Bergen, Norway, 2019.

“Grandfathering Fishing Rights,” University of Bergen, Norway Law School, 2014.

Conference on Fishery Quota Allocation, Torshavn, Faroe Islands, September 2016.

Conference on Quota Allocation, Reykjavik, Iceland, August 2016.

Indiana University Ostrom Workshop, Law School International Collective Action and Climate Change Mitigation. October 2016.

Honors Course in Collective Action and the Tragedy of the Commons,” University of Montana 2020.

University of Economics, Prague, “Rectangular Survey to Define Property Rights to Land. 2011.

University of Cambridge, UK. “Rectangular Survey to Define Property Rights to Land. 2011.

University of Toulouse, “Rectangular Survey to Define Property Rights to Land. 2011.

University of Paris, “Rectangular Survey to Define Property Rights to Land. 2011.

University of East Anglia, UK. “Collective Action Problems and Global Climate Change Mitigation. 2011.

Herzliya Law School and University of Tel Aviv, Law School. “Property Rights to Land,” 2014.

*Ronald Coase Institute, Institutional Economics*:

Ronald Coase Institute, via Zoom, December 2021.

Ronald Coase Institute, Bogota, Columbia, (University de los Andes) December 2017.

Ronald Coase Institute, Xiamen University, China, 2017, 2009, 2013.

Ronald Coase Institute, Estonian Business School, 2016.

Ronald Coase Institute, University of Tel Aviv, 2015.

Ronald Coase Institute, University of the Philippines, Manila 2014.

Ronald Coase Institute, Santiago, Chile (Diego Portales University) 2012.

Ronald Coase Institute, Beijing, China (Tsinghua University) 2012.

Ronald Coase Institute, Toulouse University, March 2011.

Ronald Coase Institute, Peking University, 2008.

Ronald Coase Institute, Shanghai (Fudan University) 2010.

)

Ronald Coase Institute, Reykjavik (University of Iceland), 2007.

Ronald Coase Institute, Boulder (University of Colorado) 2006.

Ronald Coase Institute, Barcelona ([Pompeu Fabra University](http://www.documentaciondigital.org/)) 2007.

Ronald Coase Institute, Budapest (University of Budapest). 2001.

Ronald Coase Institute, MIT. 2000.

Ronald Coase Institute, University of California, Berkeley. 1999.

Ronald Coase Institute, the University of Arizona, 2001.

**Funded Research**

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

“ITQ Allocation and Reallocation,” SNP, co PI, 2017-18.

“Tuna By-Catch Control using Incentive-Based Approaches,” The Nature Conservancy, 2016, co PI.

“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.

“NSF Dissertation Year Support, The Rectangular Grid in Urban Settings,” Trevor O’Grady, Gary Libecap PI. 2013-5.

“Addressing Global Environmental Externalities: Transaction Cost Implications,” Earhart Foundation, 2012. PI

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

“IGERT—ConvEne: Conversion of Energy through Molecular Platforms” National Science Foundation Advisor, 2008-2017.

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

“Western Water Data Base,” UC Center for Water Resources, Principal Investigator, 2007-2008

“Renewal: Institutional Change to Reduce Transaction Costs: Analysis of the Rectangular Survey,” National Science Foundation, Co-Principal Investigator, 2008-2009.

“Institutional Change to Reduce Transaction Costs: Analysis of the Rectangular Survey,” National Science Foundation, Co-Principal Investigator, 2005-2009.

“Transaction Costs and Institutional Change: An Analysis of Western Water Law Regarding Transfers from Agriculture to Urban and Environmental Uses,” National Science Foundation, Co Principal Investigator, 2003-2005.

“Resistance to Water Rights Transfers from Agriculture to Urban Areas in the West: The Legacy of the Owens Valley Transfer to Los Angeles,” Earhart Foundation, 2003.

“Appropriate Agricultural Techniques: The Information Problems in Settling the North American Arid Plains, 1900-1925,” National Science Foundation, Principal Investigator, 1999-2001.

“Weather Uncertainty, Property Rights, and Economic Decisions: The Long Term Effects of a Mistaken Land Policy,” Earhart Foundation, 2001.

“Property Rights and Conflict in the Brazilian Amazon,” National Science Foundation, Co-Principal Investigator, 1995-1997.

"Property Rights and Land Use in the Brazilian Amazon: Lessons from U.S. Economic History," National Science Foundation, Co-Principal Investigator, 1992-1995.

"Property Rights, Rent Dissipation, and Environmental Degradation in the Brazilian Amazon," World Bank, Co-Principal Investigator, 1992-94.

"Historical and Experimental Examination of Government-Sponsored Cartels," National Science Foundation, Co-Principal Investigator, 1990-1991.

"The Organization of the Federal Government Labor Force: Patronage to Merit," Earhart Foundation, Co-Principal Investigator, 1989-1990.

"Bureaucratic Salary Differences, Agency Growth, and Constituent Relations," National Science Foundation, Co-Principal Investigator, 1985-1986.

"Contracting and Unitization of Oil Fields, National Science Foundation, Co-Principal Investigator, 1982-1984.

"Government Regulation of Oil Production," Center for Energy and Mineral Resources, Co-Principal Investigator, 1983-1984.

"Property Rights and Oil Field Unitization," Center for Energy and Mineral Resources, Principal Investigator, 1980-1981.

"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.

"Federal Restrictions on Property Rights to Rangeland," Pacific Institute, Principal Investigator, 1980-1981.

**Book Reviews**

*Liquid Asset,* Barton H. Thompson, Jr. Stanford University Press. *Journal of Economic Literature* 2024.

*The Corporation and the Twentieth Century,* Richard Langlois, Princeton University Press. 2023

*When Fracking Comes to Town: Governance, Planning, and Economic Impacts of the US Shale Boom.* Edited by Sabrina E Deitrick and Ilia Murtazashvili. Cornell University Press for Independent Institute. 2022.

*The Dilemma of the Commoners: Understanding the Use of Common-Pool Resources in Long-Term Perspective*, by Tine De Moor, Cambridge University Press, *Journal of Economic History*, 2015.

*The River Pollution Dilemma in Victorian England: Nuisance Law versus Economic Efficiency*, Leslie Rosenthal, *Journal of Economic History*, 2014.

*American Property: A History of How, Why, and What We Own*, 2011, Harvard University Press, by Stuart Banner. *Journal of Economic History,* 2012.

“The Case for Big Government” Jeff Madrick, Princeton University Press. *Economic History Review* 2009.

*Institutions and Economic Performance*. Elhanan Helpman, Harvard University Press. *Business History Review.* 2009.

*Historical Statistics of the United States, Millennial Edition*, Cambridge University Press, Eh.net, 2006.

*On the Great Plains: Agriculture and Environment* University of Nebraska Press, *Journal of Economic History* 2005.

*The Politics of Property Rights: Political Instability, Credible Commitments, and Economic Growth in Mexico, 1876-1929*, Stephen Haber, Armando Razo, and Noel Maurer, Eh.net, 2004.

*A History of Public Sector Pensions in the United States,* Robert Clark, Lee Craig, and Jack Wilson*, Journal of Economic History*, 2003.

 *Deforesting the Earth from Prehistory to Global Crisis*, Eh.Net. 2003.

*Redefining Efficiency: Pollution Concerns, Regulatory Mechanisms, and Technological Change in the U.S. Petroleum Industry,* Hugh Gorman*, Journal of Economic History*, 2003.

*Oil in Texas, The Gusher Age, 1895-1945*, Dana and Roger Olien, *Journal of Economic History*, 2002.

*Indians, Markets, and Rainforests: Theory, Methods and Analysis*, Ricardo Godoy, *Journal of Economic Literature*, 2002.

*The Mystery of Capital: Why Capitalism Triumphs in the West and Fails Everywhere Else*, Hernando De Soto, *Journal of Economic History*, 2002.

*The Cambridge Economic History of the United States*, Volume III, the Twentieth Century, EH.Net, 2001.

*The Mechanisms of Governance*, Oliver E. Williamson, Journal of Economic History, 1997.

*Economic Evolution*, Jack Vromin, *Journal of Economic History*, 1997.

*Risks, Costs, and Lives Saved*, edited by Robert Hahn, *Journal of Comparative Economics*, 1997.

*Land Rights: The 1990's Property Rights Rebellion*, edited by Bruce Yandle, *Independent Review*, 1996.

*Collective Action: Theory and Application* by Todd Sandler, *Journal of Institutional and Theoretical Economics*, 1995.

*Contrived Competition: Regulation and Deregulation in America* by Richard H.K. Vietor, *Journal of Economic History*, 1994.

*New Jersey and the Fiscal Origins of Modern American Corporation Law*, by Christopher Grandy, *Journal of Economic History*, 1994.

*To Reclaim a Divided West: Water, Law and Public Policy*, by Donald Pisani, *The Annals of the American Academy of Political and Social Science*, 1993.

*Water Resources Management*, by David Feldman, *The Annals of the American Academy of Political and Social Science*, 1993.

*Order Without Law: How Neighbors Settle Disputes*, by Robert C. Ellickson, *Journal of Economic Literature*, March 1993.

*Common Property Economics: A General Theory and Land Use Application*, by Glenn Stevenson, *Journal of Comparative Economics*, December 1992.

*Regulation: Economic Theory and History*, edited by Jack High, *Business History Review*, 1992.

*Wilderness Preservation and the Sagebrush Rebellions*, by William Graf, *The Annals*, 1992.

*Institutions, Institutional Change and Economic Performance*, by Douglass North, *Journal of Economic Literature*, March 1992.

*Economic Analysis of Property Rights*, by Yoram Barzel, *Journal of Economic Behavior and Organization*, 1992.

*Private Property and the Limits of American Constitutionalism*, by Jennifer Nedelsky, and *Property and the Politics of Entitlement*, by John Brigham, *American Political Science Review*, March 1992.

*The Lever of Riches: Technological Creativity and Economic Progress*, by Joel Mokyr, *Journal of Comparative Economics*, December 1991.

*Markets for Federal Water: Subsidies, Property Rights, and the Bureau of Reclamation*, by Richard Wahl, *Journal of Economic Literature*, March 1991.

*Pure Food: Securing the Federal Food and Drugs Act of 1906*, by James Howey Young, *Journal of Economic History*, September, 1990.

*Non-Renewable Resources, Extraction Programs and Markets*, by John M. Hartwick, *Journal of Comparative Economics*, 1990.

*The Fall of the Bell System*, by Peter Temin, *Journal of Economic History*, June, 1989.

*The Fisherman's Problem*, by Arthur F. McEvoy, *Journal of Economic History*, December, 1987.

*Fair Play in the Market Place: The First Battle for Pure Food and Drugs*, by Mitchell Olsen, *Journal of Economic History*, December, 1986.

*Strategic Uses of Public Policy*, by Donna J. Wood, *Journal of Economic History*, December, 1986.

*U.S. Forest Service Grazing and Rangelands*, by William D. Rowley, *Arizona and the West*, Summer, 1986.

*The Economics of Zoning Laws: A Property Rights Approach to American Land Use Controls*, by William A. Fischel, *Journal of Economic Literature*, June, 1986.

*Working the Range: Essays on the History of Western Land Management and the Environment*, by John Wunder (ed.), *Journal of Economic History*, June, 1986.

*Conservation Under FDR*, by A. L. Riesch Owen, *Journal of Economic History*, December, 1984.

*Who Owns The Wildlife*, by James Tober, *Journal of Economic History*, June, 1983.

*A Theory of Property Rights*, by John Umbeck, *Journal of Economic History*, June, 1982.

*Indians, Bureaucrats, and the Land*, by Leonard Carlson, *Journal of Economic History*, December, 1981.

*Business and Government in the Oil Industry: A Case Study of Sun Oil 1876-1945*, August W. Giebelhaus, *Journal of Economic History*, March, 1981.

*Innovations in Energy: The Story of Kerr-McGee*, by John Ezell, *Journal of Economic History*, March, 1981.

*Money Mountain*, by Marshall Sprague, *Journal of Economic History*, June, 1980.

*Hard Rock Epic*, by Mark Wyman, *Journal of Economic History*, December, 1979.

*Copper Mining and Management*, by Thomas R. Navin, *Journal of Economic History*, September, 1979.

*.... And the Desert Shall Rejoice: Conflict Growth and Justice in Arid Environments*, by Arthur Maass and Raymond Anderson, *Natural Resources Journal*, July, 1979.

*The Lands of Hawaii: Their Use and Misuse*, by T. M. Creighton, *Journal of Economic History*, December, 1978.

*Le Conte's Report on East Florida*, by R. Adicks, *Journal of Economic History*, December, 1978.

**Referee**

*Science*

*Nature*

*Climatic Change*

*Publications, National Academy of Sciences (PNAS)*

*Review of Economics and Statistics*

*American Journal of Agricultural Economics*

*American Political Science Review*

*National Science Foundation*

*Social Sciences and Humanities Research Council of Canada*

*Explorations in Economic History*

*Journal of Political Economy*

*American Economic Review*

*Economic Inquiry*

*Agricultural History*

*Journal of Economic History*

*Southern Economics Journal*

*Economic History Review*

*Journal of Environmental Economics and Management*

*Journal of Economics, Law, and Organization*

*Journal of Economic Behavior and Organization*

*Economic Development and Environmental Economics*

*Journal of Comparative Economics*

*Business History Review*

*Quarterly Journal of Economics*

*Journal of Economic Literature*

 *Environment and Development Economics*

*The Energy Journal*

*Plos One*

*Essays in Economic and Business History*

*Ecological Economics*

*American Water Resources Association*

*American Geosciences Institute*

**Research Presentations**

ASSA meetings (1976, 1982, 1988, 1996, 1998, 2002, 2004, 2006, 2021, 2022).

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, various locations (1985, 1988, 1992, 1994).

Conference on Rights-Based Fishing, Iceland (1988).

Conferences on Indian Lands and Property Rights, Property and Environment Research Center (1987, 1989).

Conference on Land Tenure and Development in Mexico, Puebla (1984).

Legal Institute for Economists, Dartmouth College (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, 2008, 2014, 2020).

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, Munich (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, 2011-2017).

International Society for Organizational and Institutional Economics, SIOE (New Institutional Economics, ISNIE (1998, 2000, 2002, 2003, 2004, 2005, 2006, 2015-2017, 2023).

Canadian Resource and Environmental Economics Meetings (2002).

Research Group on Political Institutions and Economic Policy, Harvard (2002, 2003, 2004, 2007-2017).

Stanford Conference on Latin American Economic Development, (2003)..

Conference on Path Dependence, Stockholm (2004).

Australian Resource and Environmental Economics Society Meetings (2004).

Common Pool Fisheries and Other Resources, New Zealand Treasury (2004).

Sharing the Fish 06 Conference in Perth, Western Australia (2006).

una 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).

Corsica Conference on Which Governance for Which Environment? (2008).

 Productivity Commission, Canberra, Melbourne (2008).

NBER Summer Institute (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).

Ronald Coase Institute Conference, Washington D.C. 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).

Coasean Environmental Markets, Bogota, Columbia (2017).

The Role of Property Rights in Explaining the Differential Outcomes of North and South America in Economic Growth and Political Stability, Coase Institute, Bratislava, 2018.

Association of States Attorney Generals, Water Markets, 2021.

**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; Stanford University 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, the University of Economics, Bratislava, University of Canterbury, Christchurch New Zealand.

**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-Chair, All-UC Environmental Markets Program, 2014-2017.

Faculty Co-Administrator, Sustainable Water Markets Program, Bren School, 2014-2017.

University of California, UCE3, Co-Director, 2012-2014.

University of California, UCE3, Steering Committee, 2011-2014.

PhD Curriculum Committee, Bren School, 2012-2017.

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

Search Committee, Environmental Economics, Bren School 2011-12.

Personnel Committee, Bren School, 2007-2009, 2011-2012.

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.

Master 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.

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

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 with application to Water. 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—2017.

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—2017/

Steering Committee, All UC Economic History Group, 2007-2017.

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.

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, 2003-2006.

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, 1984-2006.

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, 1985-2006.

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.

**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.

**Visiting Staff Member**

Los Alamos Scientific Laboratory, Technological Assessment, 1979.

**PhD Committees**

Chair, Daniel Szmurlo, Economics Department, UCSB, 2018-2020.

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

Member, Sara Sutherland, Bren School, UCSB, 2016-2017.

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

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

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

Chair, Eric Edwards, Bren School, UCSB, 2009-2014.

Chair, Zack Donohew, Bren School, UCSB, 2007-2012.

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

Member: Rebecca Toseland, Economics Department, 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.

Chair: Jeffrey Fuller, Economics, University of Arizona, 1997.

Chair: Joseph Bial, Economics, University of Arizona, 1999.

Chair: Zeynep Hansen, Economics, University of Arizona, 2003.

**Professional Associations**

American Economic Association

Economic History Association

Western Economics Association International

Association of Environmental and Resource Economists

Cliometrics Society

National Bureau of Economic Research

Society for Institutional and Organization Economics (International Society for New Institutional Economics).

American Economics and Law Association

Property and Environment Research Center