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of Applied Economics*

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## **I. PROFESSIONAL INTERESTS**

The institutional foundations of economic systems;  
economic development; natural resources

## **II. PUBLICATIONS**

### **Books**

1. *Sufficient Reason: Volitional Pragmatism and the Meaning of Economic Institutions*, Princeton: Princeton University Press, 2006. (Chinese version published in 2008 by Shanghai Publishing, Shanghai).
2. *Economics, Ethics, and Environmental Policy: Contested Choices* (ed.), Oxford: Blackwell, 2002. (with Jouni Päävola)
3. *Environment and Economics in Project Preparation: Ten Asian Cases*, Manila: Asian Development Bank, 1999. (with P. Abeygunawardena, B.N. Lohani, & R.C.V. Barba)
4. *Sustaining Development: Environmental Resources in Developing Countries*, Cheltenham, UK: Elgar, 1999.
5. *Handbook of Environmental Economics* (ed.), Oxford: Blackwell, 1995.
6. *Making the Commons Work: Theory, Practice, and Policy* (ed.), San Francisco: ICS Press, 1992.
7. *The Social Response to Environmental Risk: Policy Formulation in an Age of Uncertainty* (ed.), Boston: Kluwer, 1992. (with Kathleen Segerson)
8. *Environment and Economy: Property Rights and Public Policy*, Oxford: Blackwell, 1991.
9. *Economic Interests and Institutions: The Conceptual Foundations of Public Policy*, Oxford: Blackwell, 1989.
10. *Natural Resource Economics: Policy Problems and Contemporary Analysis* (ed.), Boston, Mass.: Kluwer-Nijhoff, 1986.
11. *Decision Making in Developing Countries: Multiobjective Formulation and Evaluation*, New York: Praeger Publishers, 1977. (with Alfredo Sfeir-Younis)
12. *Applied Economics*, Ames: Iowa State University Press, 1975. (with Rueben C. Buse)

## Chapters in Books

1. "Land and Economic Development: New Institutional Arrangements," in Toward a Vision of Land in 2015, ed. By Gary C. Cornia and Jim Riddell, Cambridge, MA: Lincoln Institute of Land Policy, 2008. (chapter 10).
2. "Institutional Economics as Volitional Pragmatism," in Assessing the Evolution and Impact of Alternative Institutional Structures, ed. by Nicholas Mercurio and Sandra Batie, London: Routledge, 2008. (chapter 5).
3. "The Problematic Problematization of Choice: An Essay on Hardin's Indeterminacy and Society," in Research in the History of Economic Thought and Methodology, ed. by Warren Samuels, Jeff Biddle, and Ross Emmett, Oxford: Elsevier, 2007.
4. "Sustainability," in The New Palgrave Dictionary of Economics, 2<sup>nd</sup> Edition, ed. by Steven Durlauf and Lawrence Blume, London: Macmillan, 2007.
5. "The Dynamic Between Social Systems and Ocean Ecosystems: Are There Lessons from Commercial Whaling?" in Whales, Whaling and Ocean Ecosystems, ed. by J.A. Estes, Douglas Demaster, Daniel Doak, Terrie Williams, and Robert Brownell, Jr., Berkeley: University of California Press, 2006. (chapter 28).
6. "Property Rights and Development," in The Elgar Companion to Development Studies, ed. by David A. Clark, Cheltenham, UK: Elgar, 2006.
7. "Property Rights and Land Use Conflicts: Reconciling Myth and Reality," in *Economics and Contemporary Land Use Policy*, ed. by Robert J. Johnston and Stephen K. Swallow, Washington: RFF Press, 2006.
8. "Property Rights and Land in Ex-Socialist States," in *Developmental Dilemmas: Land Reform and Institutional Change in China*, ed. by Peter Ho, London: Routledge, 2005.
9. "Property Rights: Locke, Kant, Peirce, and the Logic of Volitional Pragmatism," in *Property Rights in the 21<sup>st</sup> Century*, ed. by Harvey M. Jacobs, Cheltenham, U.K.: Elgar, 2004.
10. "Property Regimes for Sustainable Resource Management," in *Land, Property, and the Environment*, ed. by John F. Richards, Oakland: ICS Press, 2002. (chap. 11)
11. "Contested Choices" in *Economics, Ethics, and Environmental Policy*, ed. by Daniel W. Bromley and Jouni Paavola, Oxford: Blackwell, 2002. (chap. 1) (with Jouni Paavola)
12. "Environmental Policy as a Process of Reasonable Valuing," in *Economics, Ethics, and Environmental Policy*, ed. by Daniel W. Bromley and Jouni Paavola, Oxford: Blackwell, 2002. (chap. 5) (with Juha Hiedanpää)
13. "Economics, Ethics and Environmental Policy," in *Economics, Ethics, and Environmental Policy*, ed. by Daniel W. Bromley and Jouni Paavola, Oxford: Blackwell, 2002. (chap. 16) (with Jouni Paavola)
14. "Searching for Sustainability: The Poverty of Spontaneous Order," in *The Economics of Nature and the Nature of Economics*, ed. by C.J. Cleveland, D.I. Stern, and R. Costanza, Cheltenham, U.K.: Elgar, 2001. (chap. 4)
15. "Private Property Rights and the Public Interest: Land in the American Idea," in *Land in the American West: Private Claims and the Common Good*, ed. by William G. Robbins and James C. Foster, Seattle: University of Washington Press, 2000. (chap. 2)

16. "Regulatory Takings and Land Use Conflicts," in *The Economics of Legal Relationships*, ed. by Michael Kaplowitz and Michael Lawrence, Raleigh, NC: JAI Press, pp.23-33, 2000.
17. "Property Regimes and Pricing Regimes in Water Resource Management," in *The Political Economy of Water Pricing Reforms*, ed. by Ariel Dinar, Oxford: Oxford Univ. Press, 2000. (chap. 2)
18. "Markets," in *The Encyclopedia of Political Economy*, London: Routledge, 1999.
19. "Land-Rights Movements," in *The Encyclopedia of Political Economy*, London: Routledge, 1999.
20. "Deforestation: Institutional Causes and Solutions," in *World Forests, Society and Environment*, ed. by Matti Palo and Jussi Uusivuori, Dordrecht, The Netherlands: Kluwer, 1999. (chap. 9)
21. "Tenure Regimes and Sustainable Resource Management," in *Tenure and Sustainable Use* ed. by James Ogilthorpe, Gland, Switzerland, International Union for the Conservation of Nature, pp.79-87, 1999.
22. "Property Regimes in Economic Development: Lessons & Policy Implications," in *Agriculture & the Environment: Perspectives on Sustainable Rural Development*, ed. by Ernst Lutz, Washington, DC: World Bank, 1998. (chap. 7)
23. "Rousseau's Revenge: The Demise of the Freehold Estate," in *Who Owns America?* ed. by Harvey M. Jacobs, Madison: University of Wisconsin Press, 1998. (chap. 1)
24. "The Ethics of Land-Value Taxation: Commentary," in *Land Value Taxation*, ed. by Dick Netzer, Cambridge, MA, Lincoln Institute of Land Policy, 1998.
25. "Searching for Sustainability: The Poverty of Spontaneous Order," in *Changing the Nature of Economics*, ed. by Cutler J. Cleveland, Robert Costanza & David I. Stern, Washington DC: Island Press, 1998. (chap. 5)
26. "Private Land and Public Values," in *Land Use and Taxation: Applying the Insights of Henry George*, ed. by H. James Brown, Cambridge, MA: Lincoln Institute of Land Policy, 1997.
27. "Property Regimes in Environmental Economics," in *The International Yearbook of Environmental and Resource Economics*, ed. by Henk Folmer and Tom Tietenberg, Cheltenham, UK: Edward Elgar, 1997. (chap. 1)
28. "Technology, Technical Change, and Public Policy: The Need for Collective Decisions," in *The Best of Choices*, ed. by Harry W. Ayer, Ames, Iowa: American Agricultural Economics Association, pp.133-36, 1996.
29. "The Language of Loss: Or How to Paralyze Policy to Protect the Status Quo," in *The Best of Choices*, ed. by Harry W. Ayer, Ames, Iowa: American Agricultural Economics Association, pp.146-48, 1996.
30. "Revitalizing the Russian Food System: Markets in Theory and Practice," in *The Best of Choices*, ed. by Harry W. Ayer, Ames, Iowa: American Agricultural Economics Association, pp.113-16, 1996.
31. "The Social Construction of Land," in *Institutioneller Wandel und Politische Okonomie von Landwirtschaft und Agrapolitik*, ed. by Konrad Hagedorn, Frankfurt: Campus Verlag, 1996. (chap. 2.1)
32. "Choices Without Prices Without Apologies," in *The Handbook of Environmental Economics*, ed. by Daniel W. Bromley, Oxford: Blackwell Publishers, 1995. (chap. 1) (with Arild Vatn)
33. "A Bargaining Framework for the Global Commons," in *The Handbook of Environmental Economics*, ed. by Daniel W. Bromley, Oxford: Blackwell Publishers, 1995. (chap. 14) (with Jeffrey Cochrane)

34. "Economic Dimensions of Community-Based Conservation," in *Natural Connections: Perspectives in Community-Based Conservation*, ed. by David Western, R. Michael Wright, and Shirley C. Strum, Washington, D.C.: Island Press, 1994. (chap. 19)
35. "Fostering Economic Development: Institutional Arrangements and the Foundations of Exchange," in *Agrarian Relation, Institutional Change and Colonial Legacy (The Case of Eastern India)*, ed. by B. N. Verma, New Delhi: Ashish Publishing House, pp.167-82, 1993. (chap. 6) (with Tushaar Shah)
36. "Property Rights as Authority Systems: The Role of Rules in Resource Management, in *Emerging Issues in Forest Policy*, ed. by Peter N. Nemetz, Vancouver: University of British Columbia Press, pp.453-70, 1992.
37. "Institutions and Institutional Change in National Economic Development," in *Internationale Agrarpolitik und Entwicklung der Weltagrarwirtschaft*, ed. by Gunther Schmitt and Stefan Tangermann, Munster-Hiltrup: Landwirtschaftsverlag GmbH, pp.219-28, 1992.
38. "Environmental Issues in Wisconsin: The Fiscal and Policy Climate," in *Dollars and Sense: Policy Choices and the Wisconsin Budget, Vol. II*, ed. by James K. Conant, Robert H. Haveman, and Jack Huddleston, Madison: The Robert M. LaFollette Institute of Public Affairs, University of Wisconsin-Madison, pp.215-35, 1991. (with Barbara J. Irvin)
39. "Maori Fishing Rights and the Crown: An Institutional Perspective," in *Society and Culture: Economic Perspectives*, ed. by Jan Whitwell and Mary Anne Thompson, Auckland, NZ: New Zealand Association of Economists, pp.59-76, 1991. (with Basil M.H. Sharp)
40. "Institutional Arrangements for Management of Rural Resources: Common Property Regimes," in *Common Property Resources*, ed. F. Berkes, London: Belhaven Press, pp.22-32, 1989. (chap. 2) (with Christopher J.N. Gibbs)
41. "Resource and Environmental Economics: Knowledge, Discipline, and Problems," in *Agricultural and Rural Areas Approaching the Twenty-First Century*, ed. R. J. Hildreth, et al., Ames: Iowa State University Press, pp.208-30, 1988. (chap. 9)
42. "Natural Resource Policy," in *State Policy Choices: The Wisconsin Experience*, ed. Sheldon Danziger and John F. Witte, Madison: University of Wisconsin Press, pp.250-76, 1988. (chap. 13) (with Kathy Segerson)
43. "Markets and Externalities," in *Natural Resource Economics*, ed. Daniel W. Bromley, Boston, Mass: Kluwer-Nijhoff, 1986. (chap. 2)
44. "Natural Resources and Agricultural Development in the Tropics: Is Conflict Inevitable?" in *Agriculture in a Turbulent World Economy*, eds. Allen Maunder and Ulf Renborg, pp.319-27, Oxford: Gower, 1986.
45. "Irrigation Institutions: The Myth of Management," in *Water and Water Policy in World Food Supplies*, ed. W. R. Jordan, College Station, Texas: Texas A&M Press, 1987. (chap.27)
46. "Resources and People," in *Natural Resources and People*, ed. K. A. Dahlberg and John W. Bennett, Boulder: Westview Press, 1986. (chap. 6) (with Ellen Szarleta)
47. "Discussion of 'The Role of Economic Analysis in Public Range Management,'" in *Developing Strategies for Rangeland Management*, Committee on Developing Strategies for Rangeland Management, National Academy of Sciences, Boulder: Westview Press, pp.1467-74, 1984.

48. "Land and Water Resources: A New Perspective on Economic Development," in *Issues in Third World Development*, eds. K. C. Nobe and R. K. Sampath, Boulder: Westview Press, 1983. (chap. 13)
49. "Public and Private Interests in the Federal Lands: Toward Conciliation," in *Public Lands and the U.S. Economy*, ed. Peter Emerson, Boulder: Westview Press, 1983. (chap. 1)
50. "Natural Resource Problems in Agricultural Development," in *Growth and Equity in Agricultural Development* (Proceedings of the Eighteenth International Conference of Agricultural Economists), ed. Allen Maunder and Kazushi Ohkawa, Oxford: Gower, pp.255-66, 1983. (with B.N. Verma)
51. "The Development of Natural Resource Economics: Concepts and Their Relevance to Developing Countries," in *Economic Approaches to Natural Resource and Environmental Quality Analysis*, ed. Maynard M. Hufschmidt and Eric L. Hyman, Dublin: Tycooly International Pub. Limited, pp.107-23, 1982.
52. "The Rights of Society versus the Rights of Landowners and Operators," in *Soil Conservation Policies, Institutions, and Incentives*, ed. Harold G. Halcrow, et al., Ankeny, Iowa: Soil Conservation Society, 1982. (chap. 10)
53. "Agricultural Land: Policy Issues and Alternatives: Discussion," in *The Cropland Crisis*, ed. Pierre Crosson, Baltimore: Johns Hopkins University Press, pp.225-30, 1982.
54. "On Implementing Multi-Objective Management of Commercial Fisheries: A Strategy for Policy Relevant Research," in *Economic Analysis for Fisheries Management Plans*, ed. Lee G. Anderson, Ann Arbor: Ann Arbor Science Pub., pp.197-21, 1981. (with Richard C. Bishop and Steve Langdon)
55. "The Benefit-Cost Dilemma," in *Western Water Resources: Coming Problems and the Policy Alternatives*, ed. Marvin Duncan, Boulder: Westview Press 1980. (chap. 12)
56. "Lake Economics," in *Decisions for Lake Michigan*, Interstate Water Quality Training Program, Hammond, Indiana, 1979.
57. "From Economic Theory to Fisheries Policy: Conceptual Problems and Management Prescriptions," in *Economic Aspects of Fisheries Management with Extended Jurisdiction*, ed. Lee G. Anderson, Ann Arbor: Ann Arbor Science Pub. 1977. (chap. 15) (with Richard C. Bishop)
58. "The Changing Nature of Water Resource Investments: Implications for Community Development," in *Water and Community Development*, ed. Donald Field, et al., Ann Arbor: Ann Arbor Science Pub. 1974. (with Richard L. Barrows)
59. "The Changing Role of Federal Water Development Agencies under Multiobjective Planning and Evaluation Procedures," in *National Water Commission: A Review of Some Issues*, ed. Peter M. Ashton, Virginia Water Resources Research Center, Blacksburg, 1974.

### **Journal Articles**

1. "On the Origins and Evolving Role of Money," Journal of Institutional and Theoretical Economics, 164(4):624-51, 2008. (with Jean-Paul Chavas).
2. "Fornalising Property Relations in the Developing World: The Wrong Prescription for the Wrong Malady," Land Use Policy, 26:20-27, 2008.

3. "Resource Degradation in the African Commons: Accounting for Institutional Decay," Environment and Development Economics, 13:539-63, 2008.
4. "Volitional Pragmatism," Ecological Economics, 68:1-13, 2008.
5. "Epistemic Flagpoles: Economics Journals as Instrumental Rhetoric," The American Economist, 52(2):33-41, 2008.
6. "The Crisis in Ocean Governance: Conceptual Confusion, Spurious Economics, Political Indifference," MAST: Maritime Studies, 6(2):7-22, 2008. And Rejoinder, pp. 39-54.
7. "Beyond Market Failure: Volitional Pragmatism as a New Theory of Public Policy," Economia Politica, 25(2):219-41, 2008.
8. "Environmental Regulations and the Problem of Sustainability: Moving Beyond 'Market Failure'," Ecological Economics, 63:676-83, 2007.
9. "Understanding China's Economic Transformation: Are There Lessons Here for the Developing World?" World Economics, 7(2):73-95, 2006.
10. "Purging the Frontier From Our Mind: Crafting a New Fisheries Policy," Reviews in Fish Biology and Fisheries, 15:217-29, 2005.
11. "Modeling Population and Resource Scarcity in 14<sup>th</sup> Century England," Journal of Agricultural Economics 56(2):217-37, 2005. (with Jean-Paul Chavas).
12. "Property and Fisheries for the Twenty-First Century: Seeking Coherence from Legal and Economic Doctrine," Vermont Law Review 28:623-61, 2004. (with Seth Macinko).
13. "Reconsidering Environmental Policy: Prescriptive Consequentialism and Volitional Pragmatism," Environmental and Resource Economics 28(1):73-99, 2004.
14. "Land-Use Policy as Volitional Pragmatism," Agricultural and Resource Economics 32(1):9-17, 2003.
15. "A Most Difficult Passage: The Economic Transition in Central and Eastern Europe and the Former Soviet Union," Emergo: Journal of Transforming Economies and Societies 7(3):3-23, 2000.
16. "Can Agriculture Become an Environmental Asset?" World Economics 1(3):127-139, 2000.
17. "The Prejudices of Property Rights: On Individualism, Specificity, and Security in Property Regimes," Development Policy Review 18(4):365-89, 2000. (with Espen Sjaastad)
18. "Expectations, Incentives, and Performance in America's Schools," Daedalus 127(4):41-66, Fall 1998.
19. "Searching for Sustainability: The Poverty of Spontaneous Order," Ecological Economics 24:231-40, 1998.
20. "Determinants of Cooperation and Management of Local Common Property Resources: Discussion," American Journal of Agricultural Economics 80:665-68, August 1998.
21. "Contracting for Nonpoint-Source Pollution Abatement," Journal of Agricultural and Resource Economics 23(1):39-54, 1998. (with Olof Bystrom)

22. "Rethinking Markets," American Journal of Agricultural Economics 79(5):1383-93, December 1997.
23. "Choices, Prices, and Collective Action in U.S. Water Policy," in Water Resources Updates 109:55-61, autumn 1997.
24. "Constitutional Political Economy: Property Claims in a Dynamic World," Contemporary Economic Policy 15(4):43-54, October 1997.
25. "Indigenous Land Rights in Sub-Saharan Africa: Appropriation, Security and Investment Demand," World Development 25(4):549-62, 1997. (with Espen Sjaastad)
26. "Externalities: A Market Model Failure," Environmental and Resource Economics, 9:135-51, 1997. (with Arild Vatn)
27. "Necessity and Purpose in Chinese Agriculture: 1949-95," Oxford Development Studies 24(3):261-80, October 1996. (with Zhiqun Xue-Lascoux)
28. "Development Reconsidered: The African Challenge," Food Policy 20(5):425-38, 1995.
29. "The Economics of Cain & Abel: Agro-Pastoral Property Rights in the Sahel," Journal of Development Studies 31(3):373-99, February 1995. (with Rogier van den Brink and Jean-Paul Chavas)
30. "Institutions, Governance and Incentives in Common Property Regimes for African Rangelands," Environmental and Resource Economics 6:99-118, 1995. (with Brent Swallow)
31. "Property Rights and Natural Resource Damage Assessment," Ecological Economics 14:129-35, 1995
32. "Co-Management or No Management: The Prospects for Internal Governance of Common Property Regimes through Dynamic Contracts," Oxford Agrarian Studies 22(1):3-16, 1994. (with Brent M. Swallow)
33. "The Enclosure Movement Revisited: The South African Commons," Journal of Economic Issues 28(2):357-65, June 1994.
34. "Choices Without Prices Without Apologies," Journal of Environmental Economics and Management 26(2):129-48, March 1994. (with Arild Vatn)
35. "Extensification of Agriculture and Deforestation: Empirical Evidence from Sudan," Agricultural Economics 10:193-200, 1994. (with Abdelmoneim H. Elnagheeb)
36. "Institutional Economics Revisited: Discussion" American Journal of Agricultural Economics 75:837-39, August 1993.
37. "Reconstituting Economic Systems: Institutions in National Economic Development," Development Policy Review 11(2):131-51, June 1993.
38. "The Law, Agency, and Global Climate Change," International Journal of Environment and Pollution 3(4):250-68, 1993.
39. "Regulatory Takings: Coherent Concept or Logical Contradiction," Vermont Law Review 17(3):647-82, 1993.

40. "The Commons, Common Property, and Environmental Policy," Environmental and Resource Economics, 2:1-17, 1992.
41. "Rainfed Mechanized Farming and Deforestation in Sudan," Environmental and Resource Economics, 2:359-71, 1992. (with Abdel Elnagheeb)
42. "Testing for Common versus Private Property: Comment," Journal of Environmental Economics and Management 21:92-96, 1991.
43. "Natural Resource Prices, Export Policies, and Deforestation: The Case of Sudan," World Development 19(10):1289-97, October 1991. (with Bruce Larson)
44. "Entitlements, Missing Markets, and Environmental Uncertainty: Reply," Journal of Environmental Economics and Management 20:297-302, 1991.
45. "Property Rights as Authority Systems: The Role of Rules in Resource Management," Journal of Business Administration 19(2), 1991.
46. "Arresting Renewable Resource Degradation in the Third World: Discussion," American Journal of Agricultural Economics 72(5):1274-75, December 1990.
47. "The Ideology of Efficiency: Searching for a Theory of Policy Analysis," Journal of Environmental Economics and Management 19(1):86-107, July 1990.
48. "Private Property Rights and Presumptive Policy Entitlements: Reconsidering the Premises of Rural Policy," European Review of Agricultural Economics 17:197-214, Spring 1990. (with Ian Hodge)
49. "Property Rights, Externalities, and Resource Degradation: Locating the Tragedy," Journal of Development Economics 33(2): 235-62, 1990. (with Bruce A. Larson)
50. "On Risk, Transactions and Economic Development in the Semi-Arid Tropics," Economic Development and Cultural Change 37(4):719-36, July 1989. (with J.P. Chavas)
51. "Property Relations and Economic Development: The Other Land Reform," World Development 17(6):867-77, June 1989.
52. "Entitlements, Missing Markets and Environmental Uncertainty," Journal of Environmental Economics and Management 17(2):181-94, September 1989.
53. "The Culture of Science, Epistemology, and Resource Policy," Social Science Quarterly 70(2):480-86, June 1989.
54. "Institutional Change and Economic Efficiency," Journal of Economic Issues 23(3):735-59, September 1989.
55. "The Political Economy of Farm Size in India: The Elusive Quest," Economic Development and Cultural Change 35:791-808, July 1987. (with B.N. Verma)
56. "Soil Management Decisions--How Should They be Compared and What Variables Influence Them?" North Central Journal of Agricultural Economics, 8:305-17, 1986. (with Bonnie Saliba)
57. "Resources and Economic Development: An Institutional Perspective," Journal of Economic Issues 19:779-96, September 1985. Also reprinted as: "Recursos y Desarrollo Economico: un Enfoque Institucionalista," Agricultura y Sociedad 35:49-75, 1985.

58. "The Village Against the Center: Resource Depletion in South Asia," American Journal of Agricultural Economics 66:868-73, December 1984. (with Devendra P. Chapagain)
59. "Land and Water Problems: An Institutional Perspective," American Journal of Agricultural Economics 64:834-44, December 1982.
60. "Agricultural Runoff as a Non-Point Externality: A Theoretical Development," American Journal of Agricultural Economics 64:547-52, August 1982. (with Ronald C. Griffin)
61. "The Economics of Cooperation Over Collective Bads," Journal of Environmental Economics and Management 8:134-50, 1981. (with John B. Braden)
62. "The Role of Land Reform in Economic Development: Policies and Politics: Discussion," American Journal of Agricultural Economics 63:399-400, May 1981.
63. "The Impact of Landownership Factors on Soil Conservation: Discussion," American Journal of Agricultural Economics 62:1089-90, December 1980.
64. "Water Reform and Economic Development: Institutional Aspects of Water Management in the Developing Countries," Economic Development and Cultural Change 28:365-87, January 1980. (with Donald C. Taylor and Donald E. Parker)
65. "Agricultural Pollution: The Economics of Coordination," American Journal of Agricultural Economics 61:591-600, November 1979. (with Basil M.H. Sharp)
66. "Extortion, Externalities, and Efficiency: Comment," American Economic Review 68:730-35, September 1978.
67. "Property Rules, Liability Rules, and Environmental Economics," Journal of Economic Issues 12:43-60, March 1978.
68. "Distributional Implications of the Extended Economic Zone: Some Policy and Research Issues in the Fishery," American Journal of Agricultural Economics 59:887-92, December 1977.
69. "Economics and Public Decisions: Roles of the State and Issues in Economic Evaluation," Journal of Economic Issues 10:811-38, December 1976.
70. "Employment Impacts of the Economic Development Administration's Public Works Program," American Journal of Agricultural Economics 57:46-54, February 1975. (with Richard L. Barrows)
71. "On Appraising Environmental Institutions: Comment," American Journal of Agricultural Economics 56:819-22, November 1974.
72. "The Food System and Project Independence: Economic Issues and Research Opportunities," Proceedings of the Western Agricultural Economics Association, July 1974.
73. "Policy and Research Implications of the National Water Commission's Recommendations," Land Economics 50:15-34, February 1974. (with Walter R. Butcher and Stephen C. Smith)
74. "On the Incongruity of Program Objectives and Project Evaluation: An Example from the Reclamation Program," American Journal of Agricultural Economics 55:472-76, August 1973. (with Bruce R. Beattie)  
Reprinted in Benefit-Cost and Policy Analysis, ed. R.H. Haveman, Arnold Harberger, et al., Chicago: Aldine Publishing Co., 1974.

75. "Empirical Study of Economic-Ecologic Linkage in a Coastal Area: Comment," Water Resources Research 8:1361-63, October 1972. (with Neil Meyer)
76. "An Alternative to Input-Output Models: A Methodological Hypothesis," Land Economics 48:125-33, May 1972.
77. "A Dynamic Economic Model of Pasture and Range Investments: Comment," American Journal of Agricultural Economics 54:131, February 1972.
78. "Social Goals, Water Resource Development, and the Water Resources Council: A Critical Assessment," Proceedings of the Western Agricultural Economics Association, July 1971.
79. "The Use of Discriminat Analysis in Selecting Rural Development Strategies," American Journal of Agricultural Economics 53:319-22, May 1971.
80. "Social Goals, Problem Perception, and Public Intervention: The Fishery," San Diego Law Review 7:469-87, July 1970. (with Victor L. Arnold)
81. "Economic Importance of Federal Grazing: An Inter-Industry Analysis," Journal of Range Management 22:9-14, January 1969.

### III. AFFILIATIONS/APPOINTMENTS

1. Visiting Professor, Division of Resource Economics, Humboldt University-Berlin, 2009-2011.
2. Editor, *Land Economics* journal, 1974 to present.
3. Fellow, Center for Urban Land Economics Research, School of Business, University of Wisconsin, Madison.
4. Advisory Committee, UW Land Tenure Center, 2000-2002.
5. Adjunct Professor, Department of Forestry, University of Wisconsin-Madison.
6. Member of Program Faculty, Industrial Relations Research Institute, University of Wisconsin.
7. Honorary Fellow, Evaluation and Territorial Economy Scientific Study Center, Italy.
8. Member of Editorial Board, *Journal of Environment and Development Economics*.
9. Member of Editorial Board, *Ecological Economics*.
10. Acting Director, Institute for Environmental Studies, University of Wisconsin-Madison July 1990-August 1992.
11. President, International Association for the Study of Common Property 1992-93.
12. Visiting Fellow, Wolfson College, and Visiting Scholar, Department of Land Economy Cambridge University 1986-87.
13. Chair, Department of Agricultural and Applied Economics 1981-1986; 1995-1998.
14. Director, Center for Resource Policy Studies, University of Wisconsin 1973-1985.
15. Advisory Board, Economics Institute, Boulder, Colorado 1988-1997.
16. Advisory Board, National Coastal Resources Research Institute, Newport, Oregon 1985-1987.
17. External Examiner:
  - Faculty of Economics, University of Malaya (Malaysia) 1996 -
  - Faculty of Economics and Management, University Putra Malaysia 1986 -
  - Sri Venkataswara University, India 1990 -
18. Economist, Office of Economic Analysis, Office of the Secretary, U.S. Department of the Interior, Washington, D.C., September 1973 to March 1974.
19. Principal Economist, Division of Economics and Sector Planning, Technical Assistance Bureau, U.S. Agency for International Development, Washington, D.C., March 1974 to November 1974.
20. Economist on project design and evaluation team for A.I.D. loan to Government of India for Village Forestry Project 1980.

21. Leader of evaluation team for A.I.D.-supported small-scale irrigation project in the Philippines being carried out by the Farm Systems Development Corporation (January 1978).
22. Member of site-visit team to evaluate academic programs:
  - University of New Mexico 2000
  - Montana State University 1983
  - University of Massachusetts 1979
  - University of Nebraska 1977
23. Economist on A.I.D. design and evaluation team for soil conservation/reforestation project in Haiti 1985.

#### **IV. CONSULTING/ADVISING**

1. Ministry of Finance, Government of Sudan
2. Commission of the European Union.
3. Global Environment Facility
4. Asian Development Bank
5. World Bank
6. Institute on Global Conflict and Cooperation, University of California System, Advisor for Research Consortium, Santa Cruz, CA,
7. International Fund for Agricultural Development, Rome
8. Aga Khan Foundation, India
9. Ministry for the Environment, New Zealand
10. Environment Directorate, OECD, Paris
11. Natural Resource Economics Division, ERS/USDA
12. Ford Foundation and Agricultural Development Council in Asia
13. U.S. Congress, Office of Technology Assessment
14. U.S. Agency for International Development
15. Metropolitan Dade County (Miami, Florida) Planning Department
16. U.S. Water Resources Council
17. Texas Water Development Board
18. National Commission on Water Quality
19. Wisconsin Department of Natural Resources
20. Wisconsin Legislature
21. U.S. Forest Service
22. Alaska Department of Fish and Game

#### **V. INVITED LECTURES**

Cambridge University, England 1986, 1987, 1998, 2002  
 Oxford University, England 1988  
 University of Gottingen, Germany 1987, 1991, 2006  
 National Autonomous University of Mexico, 2008  
 Australian National University 2006  
 University of Montreal 2006  
 University of Hohenheim, Germany 1992  
 University of Oldenburg, Germany 1992  
 University of Heidelberg, Germany 2006  
 University of Freiburg, Germany 2006  
 Max Planck Institute of Economics, Jena, Germany 2006  
 University of Halle, Germany 2006  
 Humboldt University-Berlin, Germany 2000, 2006  
 Stockholm University 1999, 2000  
 University of Gothenburg, Sweden 1999

Lund University, Sweden 2001  
University of Southern Denmark 2001  
University of Auckland, New Zealand 1987  
University of East Anglia, 2002  
University of Connecticut 2003  
University of the Witwatersrand, South Africa 2003  
University of Nijmegen, Netherlands 2003  
University of York, 2002  
University College London, 2002  
University of Antwerp, Belgium, 2002  
University of Namur, Belgium, 2002  
Massey University, New Zealand 1987  
Moscow State University, Russia 1992  
University of Canterbury, New Zealand 1987, 1988  
Lincoln College, New Zealand 1987  
University of the Philippines, Los Banos 1979, 1999  
Kasetsart University, Bangkok, Thailand 1979  
Thammasat University, Bangkok, Thailand 1979, 1998  
Khon Kaen University, Khon Kaen, Thailand 1979  
Harvard University 1987, 1992  
Yale University 2004, 2005  
Reed College, 2005  
Massachusetts Institute of Technology 1992  
Swedish University of Agricultural Sciences 1985, 1991, 1999  
East-West Center and University of Hawaii 1985  
Auburn University, Weaver Lecture 1996  
University of Illinois 1985  
Michigan State University 1984, 1998  
North Carolina State University 1990  
Clark University 1990  
Cornell University 1980, 1983  
Ohio State University 1980  
University of Minnesota 1976, 1979, 1986, 1988  
Finnish Forest Research Institute, Helsinki 1996, 1999  
University of New Mexico 1978  
Pennsylvania State University 1977  
Oregon State University 1976, 1990, 1997, 2005  
Clemson University 1976  
Virginia Polytechnic Institute 1974  
University of Arizona 1974  
Texas A&M, 1973 1993  
Concordia College 1971  
Justus Liebig University-Giessen, Germany 2006  
Philipps University-Marburg, Germany 2006  
St. Olaf's College 1971, 2006  
Purdue University 1998  
Southern Illinois University 1998  
Mississippi State University 1999  
University of Chicago 1999, 2006  
Washington State University 1999  
University of California-Santa Cruz 1999  
University of Rhode Island 1999, 2002  
Indiana University 2005  
Portland State University 2005  
Wageningen Research University, Netherlands 2003, 2006

## VI. EDUCATION

<u>School</u>	<u>Major</u>	<u>Degree</u>	<u>Date</u>
Northern Arizona University	Forestry		
Utah State University	Range Ecology	B.S.	1963
Oregon State University	Natural Resource Economics	M.S.	1967
Oregon State University	Natural Resource Economics	Ph.D.	1969

## VII. TEACHING

AAE/ECON 707	Institutional Economics (1989- )
AAE/IES 344	The Environment & the Global Economy (1999- )
AAE 762	Natural Resources and Markets (1985-1991)
AAE 745	Advanced Natural Resource Economics (1977-1984)
AAE 812	Economics of Public Decision Making (1969-1984)
AAE 534	Water Resource Economics (1975, 1976)

## VIII. COMMITTEE SERVICE

Member, National Academy of Sciences Committee on America's Climate Choices, 2009.  
Chair, Federal Advisory Committee on Marine Protected Areas, U.S. Department of Commerce, 2003-2006.  
Member, Committee to Study the Steller Sea Lion and the Alaskan Fishery, National Academy of Sciences, National Research Council, 2001-2002.  
Member, Ocean Studies Board, National Academy of Sciences, National Research Council, 1997-2000  
Member, Committee to Study the Community Development Quota Program in Alaskan Fisheries, National Academy of Sciences, National Research Council, 1997-98  
Member, Board of Electors for Professorship of Land Economy, University of Cambridge, England, 1990-1991  
Member, Advisory Panel for Professorship of Environmental Economics, Swedish University of Agricultural Sciences, Uppsala, 1993-1994  
Chairman, Panel on Common Property Resource Problems in Developing Countries, National Academy of Sciences, 1985-1986  
Organizing Committee for Conference on Natural Resource Problems in Asia. Sponsoring Agencies: Agricultural Development Council and Japanese Government. Conference in Sapporo, Japan, June 20-26, 1985  
National Academy of Sciences, National Research Council, Committee on Soil Reclamation and Coal Mining, 1978-80

### University Committees

University Library Committee 1996-2000 (Chair 1999-2000)  
Chair, Budget Sub-Committee of University Library Committee 1996 -  
Search and Screen Committee, Dean of College of Agricultural and Life Sciences 1990-91  
Chair, Commission of Faculty Compensation and Economic Benefits 1989-90  
Executive Committee, La Follette Institute of Public Affairs 1986-1988  
Academic Planning Council (CALs) 1984-85  
Chancellor's Academic Planning Council 1983-1986  
University Committee Task Force on Educational Policy 1983-1984  
La Follette Institute of Public Affairs Study Committee 1982-1984  
Social Studies Divisional Committee 1981-1982  
University of Wisconsin Environmental Programs Advisory Committee 1976-1980

Faculty Senate 1971-1973  
Chancellor's Committee on Undergraduate Education 1971-1972  
Chancellor's Committee on the ROTC Program 1970-1971

### **Professional Society Committees**

Board of Directors, American Agricultural Economics Association 1993-1996  
Board of Directors, Association for Evolutionary Economics 1989-90  
Veblen-Commons Award Committee, Association for Evolutionary Economics 1986  
Board of Directors, Association of Environmental and Resource Economists 1980-84  
Chairman of AAEA Professional Activities Committee 1979-80

### **Other**

Member, Board of Directors, University Bookstore, University of Wisconsin-Madison, 1983-1990 (Vice  
Chairman 1985-1990)  
Vice-President, Board of Directors, University Club, University of Wisconsin-Madison, 1996-1997  
President, Board of Directors, University Club, University of Wisconsin-Madison, 1997-1999

## **IX. PROFESSIONAL HONORS/AWARDS**

Who's Who in Economics  
Fellow, Association of Environmental and Resource Economists  
Fellow, Agricultural and Applied Economics Association  
Anderson-Bascom Professor of Agricultural and Applied Economics, University of Wisconsin-Madison  
Outstanding Teaching Award, presented by the Graduate Student Club, Agricultural & Applied Economics,  
University of Wisconsin 1995, 1997, 2003  
Dudley Seers Prize for best journal article in the 1995 issue of the *Journal of Development Studies* for "The  
Economics of Cain and Abel: Agro-Pastoral Property Rights in the Sahel," (with Rogier van den Brink and  
Jean-Paul Chavas)  
Who's Who in America  
Who's Who in the Midwest  
Who's Who in Science and Engineering  
American Men and Women of Science  
Outstanding Contribution to the Graduate Program 1981-82, presented by the Graduate Student Club, Department of  
Agricultural and Applied Economics, University of Wisconsin  
Awarded one of ten travel grants from the American Agricultural Economics Association to attend meeting of  
International Association of Agricultural Economists, USSR, 1970  
Recipient of the Robert Johnson Research Fellowship, presented annually by the faculty of the Department of  
Agricultural and Resource Economics, Oregon State University, to the outstanding graduate student in the  
department, 1967-68, 1968-69  
Winner of Western Agricultural Economics Association thesis competition, 1968  
Outstanding Senior, College of Natural Resources, Utah State University, 1963