

RESUME

NAME: **Carlisle Ford Runge**

TITLE AND CURRENT ADDRESS

Distinguished McKnight University Professor of Applied Economics and Law
Department of Applied Economics
University of Minnesota
St. Paul, Minnesota 55108

Professor
University of Minnesota School of Law

Fellow, University of Minnesota, Institute on the Environment (IonE)

Adjunct Professor
Hubert H. Humphrey Institute of Public Affairs

Adjunct Professor
Department of Forest Resources

DATE OF BIRTH: March 7, 1953, Madison, Wisconsin, USA
CITIZENSHIP: United States
RESIDENCE: 901 Pine Street West
 Stillwater, MN 55082

FAMILY STATUS: Married to Susan A. Mackenzie
 One daughter, Elizabeth
 One son, Carl

ACADEMIC BACKGROUND

University of Wisconsin, Ph.D., Agricultural Economics, 1981
University of Wisconsin, M.A., Agricultural Economics, 1980
Oxford University (Rhodes Scholar), M.A., Politics and Economics, 1977
Duke University, Institute for Policy Science and Public Affairs, 1975
University of North Carolina, B.A., American Studies, 1974

YEARS ON MINNESOTA FACULTY: Since July, 1983

Assistant Professor, 1983-1986
Associate Professor, 1986-1992
Professor, 1992-present
Distinguished McKnight University Professor, 1998-present

PROFESSIONAL HONORS RECEIVED

Fellow, Institute on the Environment, University of Minnesota, 2010-present.
American Agricultural Economics Association 2007 Award for Outstanding *Review of Agricultural Economics* Article, "An Empirical Analysis of and Policy Recommendations to Improve the Nutritional Quality of School Meals," *Review of Agricultural Economics* 29(4)(Winter 2007):672-688.
American Agricultural Economics Association, 2004 Publications Award for Quality of Communication (with Ben Senauer, Philip Pardey and Mark Rosegrant), for *Ending Hunger in Our Lifetime: Food Security and Globalization* (Johns Hopkins University Press), 2003.
American Agricultural Economics Association, Distinguished Policy Contribution, Honorable Mention, 1998
American Agricultural Economics Association 1993 Publication Award for Outstanding Communication (with Willard W. Cochrane), for *Reforming Farm Policy: Toward a National Agenda* (Iowa State University Press), 1992.
Fulbright Scholar - Western Europe, 1991
Member, Gamma Sigma Delta, Honor Society of Agriculture, 1989
Member, Council on Foreign Relations, 1988-
Bush Leadership Fellowship, 1987
Council on Foreign Relations, International Affairs Fellowship, and Ford Foundation Economist, 1986
Governor's Commendation for Volunteer Service, 1985
American Association for the Advancement of Science, Science and Diplomacy Fellowship, 1983
Rhodes Scholarship, 1975
Phi Beta Kappa, 1974

PROFESSIONAL EXPERIENCE

Director, Center for International Food and Agricultural Policy, University of Minnesota, 2003-2007.

Distinguished McKnight University Professor, Department of Applied Economics; Professor, School of Law; Adjunct, Hubert H. Humphrey Institute of Public Affairs and Department of Forest Resources. Member of faculty since July 1983 - present (permanent tenure granted May 1986).

Co-chairman and organizer, Study Group on Trade, Science and Genetically Modified Organisms. Council on Foreign Relations, New York. 2000-2001.

Consultative Director, Agricultural Sector, NAFTA Effects Project. North American Commission on Environmental Cooperation. Montreal, Quebec, Canada. 1995-98.

Co-chairman, Study Group on Trade and Environment, Council on Foreign Relations, New York. 1992-93.

Fulbright Scholar, Western Europe, 1991. Sabbatical leave taken at the University of Padova (Italy) and the Institut National Recherche Agronomique (INRA), Dijon (France).

Director, Center for International Food and Agricultural Policy, University of Minnesota, 1988-91.

Special Assistant to U.S. Ambassador Michael Samuels, Deputy U.S. Trade Representative, General Agreement on Tariffs and Trade (GATT), 1-3 Ave. de la Paix, 1202 Geneva, Switzerland - August, 1987-September, 1988. Work supported by Council on Foreign Relations, Ford Foundation, and Bush Foundation (see "Professional Honors" above).

American Association for the Advancement of Science (AAAS), Science and Diplomacy Fellow, Washington, D.C., worked in the Science and Technology Bureau, U.S. Agency for International Development, January-July, 1983.

University of North Carolina-Chapel Hill, Assistant Professor, Public and Environmental Policy, Department of Political Science, September, 1981 - January, 1983. Adjunct, Department of Forestry, Duke University.

University of Wisconsin, Research Assistant, Department of Agricultural Economics, September, 1977 - August, 1981; reviewer and editorial assistant, *Land Economics*, 1980.
World Bank, Division of Agriculture and Rural Development, Research Assistant, June - September, 1979.

U.S. Congress, House of Representatives, Committee on Agriculture, Staff Member, to Chairman Thomas S. Foley, 1976.

Duke University, Institute for Policy Science and Public Affairs, Research Assistant, Rockefeller Grant Project on American rural development policy and agricultural legislation since 1933, August, 1974 - June, 1975.

University of North Carolina-Chapel Hill, President of Student Body, March 1973 - March 1974. Ex Officio member, UNC Board of Trustees.

U.S. Congress, Senate, Office of Senator Gaylord Nelson, Intern, June - August, 1972.

DEPARTMENTAL COMMITTEES

Graduate Program Admissions Committee
Priorities Committee
Promotion and Tenure Committee
Undergraduate Committee
Social Committee
Awards Committee

UNIVERSITY-WIDE AND COMMUNITY SERVICE

Director, Center for International Food and Agricultural Policy, 1988-91; 2003-present
Finance and Planning Committee, 1991-93
Graduate Research Advisory Committee, 1986-95

CONSULTANCIES

Syngenta, 2001-2011
Center for Biotechnology Information, 2002-2005
Conservation International for McDonald's Corporation, 2001
International Food Policy Research Institute (IFPRI) (Washington, DC), 1999-2001

Food and Agriculture Organization (Rome), 1991-92
Organization for Economic Cooperation and Development (Paris), 1991-92, 1995-96
National Corn Growers, 1991
Dames and Moore, Environmental consultants, 1991-92
Ford Motor Company, 1992-93
Environmental Defense Fund, 1993-
Association of American Railroads, 1993-94
World Wildlife Fund (Washington, D.C.), 1996-
Commission on Environmental Cooperation (Montreal), 1996-2001
Monsanto, 1996-98
Internal Revenue Service 1996-97
World Resources Institute (Washington, D.C.), 1996-97

BOARD MEMBERSHIP

Land O' Lakes, 1994-99
Lemna Corporation, 1995-96
Great Plains Institute for Sustainable Development, 1997-99

LEGAL CONSULTANCIES – Expert Witness

Simpson, Thatcher and Bartlett for the Ford Motor Company-International. Arbitration over Fiat acquisition of Ford-New Holland tractors.

Oppenheimer, Wolff and Donnelly for Aon Risk Services. Defendant in Suit filed by Archer Daniels Midland over damages of the 1993 flood and corn prices.

Lockridge, Grindal, Nauen. Plaintiff in Class Action Suit on behalf of corn growers injured by Aventis Starlink corn.

PUBLICATIONS

Books and Published Monographs

“Investment in research is crucial in the quest to ensure food security,” in *G20 – The Cannes Summit*, November 2011, pp. 198-199.

Can Economic Growth Be Sustained? The Collected Papers of Vernon W. Ruttan and Yujiro Hayami. Edited by Keijiro Otsuka and C. Ford Runge. Oxford University Press, Sept. 2011.

“Supporting the new green revolution: are politics properly targeted?” in *G8 & G20 Canadian Summits*, June 2010, pp. 245-247.

“Food Security and the Biofuels Challenge,” in *G20 – The Pittsburgh Summit*, September 2009.

Runge, C. Ford. “Biofuels: what path forward?” *G20*, Sao Paulo, Brazil. November 2008, pp. 79-82.

Ending Hunger in Our Lifetime: Food Security and Globalization (with Ben Senauer, Philip Pardey and Mark Rosegrant). Johns Hopkins University Press for International Food Policy Research Institute. Spring 2003. Winner of the Annual Award for Outstanding Communication, American Agricultural Economics Association, 2004.

The History, Trade and Environmental Consequences of Corn (Maize) Production in the United States. A study conducted for the World Wildlife Fund (WWF). September 15, 2002.

Sustaining a Revolution: A Policy Strategy for Crop Engineering (with David G. Victor), New York: Council on Foreign Relations. 2002.

Sustainable Trade Expansion in Latin America and the Caribbean: Analysis and Assessment (with Eugenio Cap, Paul Faeth, Patricia McGinnis, Demetri Papageorgiou, James Tobey, and Robert Housman), Washington, DC: World Resources Institute, August 1997.

Freer Trade, Protected Environment: Balancing Trade Liberalization and Environmental Interests (with François Ortalo-Magné and Philip Vande Kamp), New York: Council on Foreign Relations Press, 1994.

Reforming Farm Policy: Toward a National Agenda (with Willard W. Cochrane), Ames: Iowa State University Press, 1992. Winner of the Annual Award for Outstanding Communication, American Agricultural Economics Association, 1993.

Policy Coordination in World Agriculture (H. von Witzke, C. F. Runge, and B. Job, editors), Wissenschaftsverlag Vauk, Kiel, Germany, 1989.

Making Soil and Water Conservation Work: Scientific, State and Federal Policy Perspectives (D. Halbach, C. F. Runge, and W. Larson, editors), Madison, Wisconsin, Soil Conservation Society of America, 1987.

Institutional Innovation in the Common Agricultural Policy of the European Community (with Harald von Witzke), Wissenschaftsverlag Vauk, Kiel, Germany, 1986.

The Future of the North American Granary: Politics, Economics, and Resource Constraints in North American Agriculture (C. F. Runge, editor), Ames, Iowa, Iowa State University Press, 1986.

JOURNAL ARTICLES (BY AREA)

Trade, Agriculture and General Policy Analysis

“Are we in this together? Risk bearing and collective action” (with Justin Johnson). *Journal of Natural Resources Policy Research* 6(1)(2014): 71-76.

http://www.tandfonline.com/doi/full/10.1080/19390459.2013.869034#.Uu_WsLQIPk8

“All You Can Eat.” *The American Interest*, Autumn (Sept./Oct.)(2013): 72-75.

“Treadmill Desks: A One-Year Prospective Trial” (with Gabriel Koeppe, Chinmay Manohar, Shelly McCrady-Spitzer, Avner Ben-Ner, Darla Flint-Paulson and James Levine). *Obesity* 21(4): 705-711, April 2013. Accepted Article, doi: 10.1002/oby.20121.

“The Stimulus Effects of Employment Programs for Minnesota’s Citizens with Disabilities: A Case Study of Merrick, Inc.” *Disability Studies Quarterly* 32(3)(2012).
<http://dsq-sds.org/article/view/1749/3097>

“Obesity Overtaken by Leanness as a Repeated Game: Social Networks and Indirect Reciprocity,” (with Erik Nelson, Carlisle Piehl Runge and James Levine). *Environmental Economics* 3(1)(2012): 8-22. http://businessperspectives.org/journals_free/ee/2012/ee_2012_1_Runge.pdf or http://businessperspectives.org/component/option,com_journals/task,issue/id,196/jid,9/Itemid,74/Itemid,74/

“Better Milk than Cola: Soft Drink Taxes and Substitution Effects,” (with Justin Johnson and Carlisle Piehl Runge). *Choices*, 3rd Quarter 2011, 26(3).

“Should Soft Drinks be Taxed More Heavily?” *Choices*, 3rd Quarter 2011, 26(3).

“A Response to Mairon G. Bastos Lima. *Melbourne Journal of International Law (Opinio Juris)* Feb. 12, 2010. Available online: <http://opiniojuris.org/2010/02/12/a-response-to-mairon-g-bastos-lima-by-c-ford-runge/>

“The Dismal State of Biofuels Policy,” (with Robbin S. Johnson). *Issues in Science and Technology* 27(1)(Fall 2010): 31-33.

“Against the Grain: Why Failing to Complete the Green Revolution could Bring the Next Famine” (with Carlisle Piehl Runge). *Foreign Affairs* 89(1)(Jan./Feb. 2010):8-14.

“Biofuel: corn isn’t the king of this growing domain.” *Nature* 450(7169)(Nov. 22, 2007): 478.

“Ethanol: Train Wreck Ahead?” (with Robbin S. Johnson). *Issues in Science and Technology* (Fall)(2007): 25-30.

“Food for Fuel?” (with Benjamin Senauer). *Foreign Affairs* 86(5)(Sept./Oct. 2007).

“The Economic Consequences of the Obese.” *Diabetes* 56(2007): 2668-2672.

“Nutritional Improvements and Student Food Choices in a School Lunch Program,” (with Corbett Grainger and Benjamin Senauer). *The Journal of Consumer Affairs* 41(2)(2007): 265-284.

“An Empirical Analysis of and Policy Recommendations to Improve the Nutritional Quality of School Meals,” (with Barb Wagner and Ben Senauer). *Review of Agricultural Economics (RAE)* 29(4)(2007): 672-688. (Voted Outstanding 2007 RAE Article.)

“Agriculture of Corruption.” *The American Interest* 2(3)(Winter-Jan/Feb 2007): 70-78.

“Exclusion, Inclusion and Enclosure: Historical Commons and Modern Intellectual Property,” (with Edi Defrancesco). *World Development* 34(10)(2006): 1713-1727.

- “Agrivation: The Farm Bill from Hell.” *The National Interest* 72(Summer 2003): 85-93.
- “National Security and Bioterrorism: A U.S. Perspective.” Working Paper WP02-7. St. Paul, MN: University of Minnesota, Center for International Food and Agricultural Policy, 2002.
<http://agecon.lib.umn.edu/mn/wp02-07.pdf>
- “Farming the Genetic Frontier,” (with David G. Victor). *Foreign Affairs* 81(3)(May/June 2002): 107-121.
- “Institutional Innovation in International Governance to End Hunger.” *American Journal of Agricultural Economics* 84(3) (August 2002): 839-844.
- “Differing U.S. and European Perspectives on GMOs: Political, Economic and Cultural Issues.” (with Bagnara, Gian-Luca and Jackson, Lee Ann.) *The Estey Centre Journal of International Law and Trade Policy* 2(2, Summer 2001): 221-234.
- “A Global Environment Organization (GEO) and the World Trading System,” *Journal of World Trade* 35 (4, August) 2001: 399-426.
- “Negative Labeling of Genetically Modified Organisms (GMOs): The Experience of rBST” (with Lee Ann Jackson), *AgBioForum* 3 (1)(2000): 310-14.
- “Labelling, Trade and Genetically Modified Organisms: A Proposed Solution” (with Lee Ann Jackson), *Journal of World Trade* 34(1)(February 2000): 111-122.
- “A Removable Feast” (with Ben Senauer), *Foreign Affairs* 79(3)(May/June 2000): 39-51. Reprinted in *The New Trade Agenda*, Foreign Affairs Editor’s Choice Series (A Council on Foreign Relations Book), Jan. 2004.
- “A Conceptual Framework for Agricultural Trade and the Environment: Beyond the ‘Green box’,” *Journal of World Trade* 33(6)(December 1999): 47-68.
- “Resolving Transboundary Pollution Externalities by Linkage to Trade” (with Grant Hauer), *Canadian Journal of Agricultural Economics* 45(4)(December 1997): 393-402.
- "Agricultural Policy Reform in the United States: An Unfinished Agenda" (with Kimberly Stuart), *Australian Journal of Agricultural and Resource Economics* 41(1)(March 1997). New South Wales, Australia.
- "Trends and Developments in United States Agricultural Policy: 1993-1995" (with Philip Vande Kamp), *Review of Marketing and Agricultural Economics* 62(3)(December 1994). New South Wales, Australia.
- "Economic Implications of Wider Compensation for `Takings' or, What if Agricultural Policies Ruled the World?" *Vermont Law Review* 17(3)(Spring 1993).
- "GATT and the Environment: Policy Research Needs" (with Courtney Harold), *American Journal of Agricultural Economics* 75 (August 1993).

"Agricultural Policy Developments in the United States: 1991-1993" (with Philip Vande Kamp), *Review of Marketing and Agricultural Economics* 60(3)(December 1992). New South Wales, Australia.

"A Policy Perspective on the Sustainability of Production Environments: Towards a Land Theory of Value (Eine Politikperspektive über die Nachhaltigkeit produktiver Umwelten: Überlegungen zu einer Landwert-Theorie)," *Quarterly Journal of International Agriculture* 31(2)(April-June 1992).

"Canada and the U.S.: Relative Competitiveness of Selected Agri-food Industries" (with Larry C. Martin and Erna van Duren), *Canadian Journal of Agricultural Economics*, 38(4): pt. 2, December 1990.

"The 1990 Farm Bill and the Uruguay Round," *American Journal of Agricultural Economics* 73 (3), August 1991.

"Trade Protectionism and Environmental Regulations: The New Nontariff Barriers," *Northwestern Journal of International Law and Business* 11(1)(Spring 1990). Northwestern University School of Law.

"American Agricultural Policy and the 1990 Farm Bill" (with Laurie Erdman), *Review of Marketing and Agricultural Economics* 58(2,3)(August, December 1990). New South Wales, Australia.

"Export Demand, U.S. Farm Income, and Land Prices: 1949-1985" (with Daniel Halbach), *Land Economics* 66(2), May 1990.

"Institutional Choice in the Common Agricultural Policy and European Community Enlargement," *American Journal of Political Science*, (with Harold von Witzke) Vol. 34, No. 1, (1990).

"Trade in Disservices: Environmental Regulation and Agricultural Trade" (with Richard Nolan), *Food Policy*, February 1990.

"The Assault on Agricultural Protectionism," *Foreign Affairs* 67:1 (Fall, 1988). (Reprinted in *Economic Impact* [1989, No. 66, pp. 4-11]; and in *The American Oxonian* [Winter 1989, Vol. LXXVI, No. 1, pp. 12-23].)

"The Political Economy of the Uruguay Round Negotiations: A View from Geneva" (with G. Stanton), *American Journal of Agricultural Economics* 70:5 (December, 1988).

"Neopopulism and the New Agriculture" (with Daniel Halbach), *Review of Marketing and Agricultural Economics*, New South Wales, Australia, 55:2 (August, 1987).

"Institutional Change in the Common Agricultural Policy of the European Community" (with Harald von Witzke), *American Journal of Agricultural Economics* 69:2 (May, 1987). Reprinted in Spanish, "El cambio institucional en la Política Agrícola Común de la Comunidad Europea," in *Análisis institucional de las políticas agrarias: Conflictos de intereses y política agraria*, J. M. Avlarez-Coque (ed.), Ministerio de Agricultura, Pesca y Alimentación, Madrid, Spain, 1991, pp. 317-340.

"Sales Tax on Food Can Pay for Farm Programs" (with Daniel Halbach), *Choices* 2:1 (First Quarter, 1987).

"Obstacles and Opportunities Confronting U.S. Agriculture in World Markets," *Journal of Agribusiness* 4:1 (February, 1986).

"Shifting Foundations of Agricultural Policy Analysis: Welfare Economics When Risk Markets are Incomplete" (with Robert J. Myers), *American Journal of Agricultural Economics* 67:5 (December, 1985).

"The Relative Contribution of Demand and Supply to Instability in the U.S. Corn Market" (with Robert J. Myers), *North Central Journal of Agricultural Economics* 7:1 (January, 1985).

"The Future of the North American Granary," *Environment* 26:8 (September, 1984).

"Institutional Innovation and Technical Change in American Agriculture: The Role of the New Deal" (with Kenneth R. Farrell), *American Journal of Agricultural Economics* 65:5 (December, 1983).

"Three Dimensions of U.S. Agricultural Policy" (with Kenneth R. Farrell), *Policy Research Notes* (November, 1983).

"American Agricultural Assistance and the New International Economic Order," *World Development*, 5:8 (1977).

Land Use and Global Environmental Policy

"E30: A Triumph of Hope over Experience." *Yale Environment* 360, May 2016.

"Global Food Demand and Carbon-Preserving Cropland Expansion under Varying Levels of Intensification," (with Justin Johnson, Benjamin Senauer and Stephen Polasky). Forthcoming in *Land Economics*, Nov. 2016.

"Food and Carbon to 2050," (with Justin Johnson). *Minnesota Applied Economist* 726(Summer 2015): 4-5. Available at: <http://ageconsearch.umn.edu/handle/206564>.

"The Global Landscape, Agriculture and Climate Change," (with Justin Johnson and Benjamin Senauer). *Agribusiness Paesaggio & Ambiente* 17(1)(March 2014).

"Global Agriculture and Carbon Trade-offs," (with Justin Johnson, Benjamin Senauer, Jonathan Foley and Stephen Polasky). *Proceedings of the National Academy of Sciences*, July 10, 2014. <http://www.pnas.org/content/111/34/12342>.

"Assessing the Comparative Productivity Advantage of Bioenergy Feedstocks at Different Latitudes," (with John Sheehan, Benjamin Senauer, Jonathan Foley, James Gerber, Justin Johnson, Stephen Polasky, Carlisle Piehl Runge). *Environmental Research Letters*, 7(4)(2012) 045906. IOP Publishing. Open Access <http://iopscience.iop.org/1748-9326/7/4/045906>.

“The Theory and Practice of Performance Indicators for Sustainable Food Security: A Checklist Approach,” (with Juan Gonzalez-Valero). *Environmental Economics* 2(4)(2011): 7-16.

http://businessperspectives.org/journals_free/ee/2011/ee_2011_4_Runge.pdf

Also posted in the University of Minnesota, Institute on the Environment’s *Momentum* magazine, Noteworthy section (Eye on Earth) at <http://blog.lib.umn.edu/ioneye/eyeonearth/> .

“The Browning of Biofuels: The Political Economy of Policy Failure.” *World Politics Review* (February 16, 2010): 9-11.

“Introduction,” (with Calestous Juma and Robbin Johnson). Special Issue on The Future of Biofuels and National Energy Strategy: A US Perspective.” *International Journal of Biotechnology* 11(1/2)(October 2009). (Also Guest Editor.)

“Guarding the Guardians: Enforcement in the Commons.” *Journal of Natural Resources Policy Research* 1(3)(July 2009): 275-281.

“How Ethanol Fuels the Food Crisis.” *Foreign Affairs* (May 28, 2008) (foreignaffairs.org) (update to the May/June 2007 essay, “How Biofuels could Starve the Poor”)

“Factors Affecting Farmers’ Participation in Agri-Environmental Measures: A Northern Italian Perspective.” *Journal of Agricultural Economics* 59(1)(January 2008): 114-131.

“How Biofuels Could Starve the Poor,” (with Benjamin Senauer). *Foreign Affairs* 86(3): (May-June 2007): 41-53. Published as “Cómo los biocombustibles pueden matar de hambre a los pobres” in *Foreign Affairs En Espanol* 7(3)(2007): 75-90. Appearing, translated into Chinese and published as “Biofuel and Poverty,” in *International Social Science Journal* (2008 Chinese additional edition), funded by UNESCO/Chinese Academy of Social Science, pp. 99-106.

“Re-Examining the Production Tax Credit for Wind Power: An Assessment of Policy Options,” (with Douglas Tiffany). A report prepared for Fresh Energy, St. Paul, MN, January 1, 2007.

“Enclosure, Intellectual Property and Life Sciences Research.” *The Journal of World Intellectual Property* 7(6)(2004): 807-827.

“Wisconsin’s Northern Pineries: A Narrative Economic History.” An essay in honor of Professor Danilo Agostini, University of Padova, presented at the 8th U.S.-Italian Research Conference, Stouts Lodge, Minekata, Wisconsin. August 25-28, 2002.

“The Congressional Budget Office’s Regulatory Takings and Proposals for Change: One-Sided and Uninformed” *Environmental Law and Practice*, v.7, no.2, Fall 1999, pp. 5-17, 1999.

“Trade-Environment Linkages in the Resolution of Transboundary Externalities” (with Grant Hauer), *The World Economy* 22:1 (January 1999): 25-39.

“Agriculture and the Environment: A New Strategic Vision” (with David E. Ervin, Elisabeth A. Graffy, Willis E. Anthony, Sandra S. Batie, Paul Faeth, Tim Penny, and Tim Warman), *Environment* 40(6): 9-15, 35-40 (July/August 1998): 8-15. Reprinted in *The Economics of Agri-Environmental Policy*, Vol. I, Sandra Batie and Richard Horan, eds., Michigan State University, 2004, pp. 3-15.

"The Emergence and Evolution of Collective Action: Lessons from Watershed Management in Haiti" (with T. Anderson White), *World Development*, 23:10 (October 1995): 1683-1698.

"Common Property and Collective Action: Lessons from Cooperative Watershed Management in Haiti" (with T. Anderson White), *Economic Development and Cultural Change*, 43:1 (October 1994).

"Trade Liberalization and Environmental Quality in Agriculture," *International Environmental Affairs* 5:2 (Spring, 1993).

"Environmental Risk and the World Economy," *The American Prospect*, No. 1, (Spring 1990).

"Commercio Agricolo e Negoziati GATT" (with Steve Taff), *Scenari*, Vol. 2, No. 2, (First Trimester 1990).

"Induced Agricultural Innovation and Environmental Quality: The Case of Groundwater Regulation," *Land Economics* 63(3): 249-58 (August, 1987). Reprinted in *The Economics of Agri-Environmental Policy*, Vol. I, Sandra Batie and Richard Horan, eds., Michigan State University, 2004, pp. 115-124.

"Toward an Economic Model of Deforestation and Social Change in Amazonia" (with D. Southgate), *Ricerche Economiche* (Venice, Italy, 1986).

"Foresight and Expectations in Models of Natural Resource Markets" (with T. Graham-Tomasi and W. F. Hyde). *Land Economics* 62:3 (August, 1986).

"Common Property and Collective Action in Economic Development," *World Development* 14:5 (1986): 623-635.

"Using Productivity Measures to Target Conservation Programs: A Comparative Analysis" (with William E. Larson and G. Roloff), *Journal of Soil and Water Conservation* 41:1 (January - February, 1986).

"The Innovation of Rules and the Structure of Incentives in Open Access Resources," *American Journal of Agricultural Economics* 67:2 (April, 1985).

"Strategic Interdependence in Models of Property Rights," *American Journal of Agricultural Economics* 66:5 (December, 1984).

"Rejoinder: Looking Again at the New Resource Economics," in "An Exchange on Privatization," *Journal of Contemporary Studies* 7:2 (Spring, 1984).

"The Fallacy of 'Privatization'," *Journal of Contemporary Studies* 7:1 (Winter, 1984).

"Institutions and the Free Rider: The Assurance Problem in Collective Action," *Journal of Politics* 46:1 (February, 1984):154-181.

"Energy Exploration on Wilderness: Privatization and Public Lands Management," *Land Economics* 60:1 (February, 1984).

"Risk Assessment and Environmental Benefits Analysis," *Natural Resources Journal* 23 (July, 1983). Reprinted in *Statistics in Litigation*, Richard A. Wehmhoefer (ed.), McGraw Hill, 1985.

"Common Property Externalities: Isolation, Assurance and Resource Depletion in a Traditional Grazing Context," *American Journal of Agricultural Economics* 63:4 (November, 1981): 595-606.

"Common Property Externalities: Isolation, Assurance and Resource Depletion in a Traditional Grazing Context: Reply," *American Journal of Agricultural Economics* 64:4 (November, 1982): 785-788.

"Property Rights and the First Economic Revolution: The Origins of Agriculture Reconsidered," (with Daniel W. Bromley). Working Paper No. 13. Center for Resource Policy Studies, School of Natural Resources, College of Agricultural and Life Sciences, University of Wisconsin: Madison. January, 1979.

Chapters in Books

"Exclusion, Inclusion and Enclosure: Historical Commons and Modern Intellectual Property," (with Edi Defrancesco). Three-volume set, *The Political Economy of Intellectual Property Rights*, Christopher May (ed.). Fall 2010.

"The Climate Commons and a Global Environmental Organization," (Chapter 6), in *Climate Change, Trade and Competitiveness: Is a Collision Inevitable?* L. Brainard and I. Sorkin (eds.), Brookings Institution Press, 2009.

Runge, C. Ford. "agricultural economics." Invited entry to *The New Palgrave Dictionary of Economics*. Second Edition. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2008. The New Palgrave Dictionary of Economics Online. Palgrave Macmillan. 25 June 2008.

"Multilateral Environmental Agreements (MEA's): Which Way Forward?" Prepared for *The Princeton Encyclopedia of the World Economy*. K. Reinert and R. Rajan (eds.), Princeton University Press, 2008.

"Sustainability and Enclosure: Land, Intellectual Property and Biotechnology," in *Food, Agriculture and the Environment: Economic Issues*. Edi Defrancesco, Liugi Galletto and Mara Thiene (eds.), Università di Padova Fondazione Cassa di Risparmio di Padova e Rovigo, Milano, Italy, 2005.

"The Challenge of Agro-Bioterrorism," in *Syngenta Lectures*, Issue 1: 50-55. Syngenta International AG, Basel, Switzerland, 2002.

"Agricultural Trade and the Environment: Issues and Challenges," Chapter 1 in *Globalization and Agricultural Trade Policy*. Hans J. Michelmann, James Rude, Jack Stabler and Gary Storey (Eds.), Boulder, CO: Lynne Rienner Publishers, 2001: 13-31.

"Expansión Sostenible del Comercio en América Latina y el Caribe," Chapter 6 in *Comercio y Ambiente: Temas Para Avanzar el Diálogo*. Mónica Araya (Ed.), Marzo: Organización de los Estados Americanos, 2000.

"Public Sector Contributions to Private Land Value: Looking at the Ledger," Chapter 3 in *Property and Values: Alternatives to Public and Private Ownership*. Charles Geisler and Gail Daneker (Eds.), Washington, DC: Island Press, 2000.

United States and Canada: Some Environmental Implications of the North American Free Trade Agreement (NAFTA)," (with Glenn Fox) in *Assessing Environmental Effects of the North American Free Trade Agreement (NAFTA): An Analytic Framework (Phase II) and Issue Studies*. Communications and Public Outreach Department of the CEC (Commission for Environmental Cooperation) Secretariat: Montreal (Quebec) Canada, 1999.

"Environmental Protection from Farm to Market," Chapter 13 in *Thinking Ecologically: The Next Generation of Environmental Policy*. Marian R. Chertow and Daniel C. Esty (Eds.), New Haven, CT: Yale University Press, 1997.

"Issues of Trade and the Environment in the WTO System," in *The Emerging WTO System and Perspectives from East Asia*. Symposium Sponsored by the University of Michigan, The Korea Economic Institute of America, and The Korea Institute for International Economic Policy, August 28-30, 1996, Ann Arbor, Michigan. Joint U.S.-Korea Academic Studies, Volume 7, 1997.

"Subsidies, Tax Incentives and the Environment: An Overview and Synthesis" (with Tom Jones), Chapter 1 in OECD Documents *Subsidies and the Environment: Exploring the Linkages*, Organisation for Economic Co-Operation and Development, Paris, France. 1996.

"Environmental Impacts of Agriculture and Forestry Subsidies," Chapter 10 in OECD Documents *Subsidies and the Environment Exploring the Linkages*, Organization for Economic Co-Operation and Development, Paris, France. 1996.

"Economic Trade and Environmental Protection," Chapter 8 in *Environmental Policy with Political and Economic Integration: The European Union and the United States*. John B. Braden, Henk Folmer, and Thomas S. Ulen (Eds.), Cheltenham, United Kingdom: Edward Elgar. 1996.

"Land Targeting and Agricultural Policy," in *Site-Specific Management for Agricultural Systems*. P. C. Robert, R. H. Rust, and W. E. Larson (eds.), Madison, WI: American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. 1995.

"Trade, Pollution, and Environmental Protection," Chapter 16 in *The Handbook of Environmental Economics*. Daniel W. Bromley (ed.), Oxford, United Kingdom: Blackwell. 1995.

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TEACHING ACTIVITIES

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Ag Ec 5711: U.S. Agricultural and Environmental Policy, Spring 1993, 1994, 1995, 1996, 1997, 2007, 2009, 2010, 2012, 2013, 2014, 2015

Ag Ec 8360: Seminar: Land and Institutional Economics, 1986, 1988, 1989, 1990

Ag Ec 3070: Economic Growth and Development in Developing Countries, 1983, 1984, 1985, 1986

Ag Ec 8373: Food and Agricultural Policy in the United States, 1985 (one of several faculty instructors)

Ag 1100: Undergraduate Honors Course in Agriculture: Active Learning, 1985 (one of several faculty instructors)

ApEc 3007: Applied Macroeconomics: Policy, Trade and Development, 2003-present

ApEc 8902: Graduate Seminar: Ph.D. Program, 2000-2005

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Public Policy Science 71: Introduction to Public Policy Science, 1981, 1982
Political Science 163: Modern Democratic Theory, 1982
Public Policy Science 90: Seminar in Public Policy Science Research Methods, 1982
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Association of American Rhodes Scholars
Democratic Leadership Council

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