

Curriculum Vita
Walter N. Thurman

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Economics Graduate Program
North Carolina State University
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Education

Ph.D., Economics, University of Chicago, 1984.
M.S., Economics, Montana State University, 1977.
B.A., Environmental Studies, Utah State University, 1976.

Experience

William Neal Reynolds Professor of Agricultural & Resource Economics,
N.C. State University, 2007 to present.
Professor of Agricultural & Resource Economics, 1994 to present.
Professor of Economics, N.C. State University, 1994 to present.
Assistant and Associate Professor at NCSU from 1984-1994.
Editor of the *American Journal of Agricultural Economics*, 2006-2010.
Senior Fellow of the Property & Environment Research Center, 2003 to present.
Director of Fellowship Programs at PERC, 2017 to present
Associate Director of PERC's Enviropreneur Institute, 2005-2010.
Visiting Professor, Dept. of Ag. Econ. and Econ., Montana State University, 2002.
Director of Economics Graduate Program, N.C. State University, 1996-1999.
Visiting Lecturer, University of Waikato in Hamilton, New Zealand, 1990.
Instructor, Loyola University of Chicago, 1982-1983.
Research Associate, RCF Inc., Chicago, 1981-1982.
Research Staff, Standard Oil of Indiana, 1980.

Research and Teaching Fields

Agricultural and natural resource economics, econometrics, welfare economics

Awards and Honors

Outstanding Article in the *American Journal of Agricultural Economics*, 2013.
Publication of Enduring Quality Award, Agricultural & Applied Economics Assn., 2012
Harris Distinguished Visiting Professor of Economics, Clemson University, 2011
Fellow of the Agricultural and Applied Economics Association, 2010
Julian Simon Fellow, Summer 2003, Property and Environment Research Center
Quality of Research Discovery Award, American Agricultural Economics Association, 1996
First recipient of the American Agricultural Economics Association Outstanding Graduate
Instructor Award (10 or more years experience), 1996
First recipient of the NCSU College of Agriculture and Life Sciences Outstanding Graduate
Instructor Award, 1994-1995.

Working Papers

“Self-Regulation in the Non-Profit Sector: The Case of Land Trusts,” with Alexey Kalinin,
Dominic Parker, and Qian Yao.

“Combing the Landscape: The Introduction of Honey Bees into Western American Agriculture and the Evolution of Migratory Beekeeping,” with Randal Rucker.

Publications - Refereed Journal Articles

- Zeff, Harrison, Gregory Characklis, and Walter Thurman, "Distributing the Costs of Drought Policy: How Efficient Pricing in the Short Term Distorts Utility Incentives in the Long Run," J. of Water Resources Planning and Management 6(2020).
- Rucker, Randal R., Walter N. Thurman, and Michael Burgett, "Colony Collapse and the Consequences of Bee Disease: Market Adaptation to Environmental Change," J. of Assoc. of Environmental and Resource Economists, 6(2019): 927-960.
- Karali, Berna, Walter N. Thurman, and Kevin McNew, "Price Discovery and the Basis Effects of Failures to Converge in Wheat Futures Markets," Journal of Agricultural and Resource Economics 43(2018): 1-17.
- Parker, Dominic and Walter N. Thurman, "Tax Incentives and the Price of Conservation," J. of Assoc. of Environmental and Resource Economists 5(2018): 331-269.
- Fatal, Shay and Walter N. Thurman, "The Response of Corn Acreage to Ethanol Plant Siting," Journal of Agricultural and Applied Economics, 46(2014): 157-171.
- Jacobs, Keri L., Walter N. Thurman, and Michele C. Marra, "The Effect of Conservation Priority Areas on Bidding Behavior in the Conservation Reserve Program," Land Economics, 90(2014): 1-25.
- Park, Hoanjae and Walter N. Thurman, "A Bayesian Approach to Aggregation in Demand Systems: Smoothing with Perfect Substitution Priors," Applied Economics 45(2013): 4416-4426.
- Rucker, Randal R., Walter N. Thurman, and Michael Burgett, "Honey Bee Pollination Markets and the Internalization of Reciprocal Benefits," American Journal of Agricultural Economics, 94(2012): 956-977. Received 2012 Quality of Research Discovery Award from the European Association of Agricultural Economists. Named Outstanding *AJAE* Article of 2012.
- Moore, Christopher, Daniel J. Phaneuf, and Walter N. Thurman, "A Bayesian Bioeconometric Model of Invasive Species Control: the Case of the Hemlock Woolly Adelgid," Environmental and Resource Economics, 50(2011): 1-26.
- Parker, Dominic P. and Walter N. Thurman, "Crowding Out Open Space: Federal Land Programs and Their Effects on Land Trust Activity," Land Economics, 87(2011): 202-222.
- Karali, Berna and Walter N. Thurman, "Components of Grain Futures Price Volatility," Journal of Agricultural and Resource Economics 35(2010): 167-182.

Refereed Journal Articles - continued

- Karali, Berna, Jeffrey H. Dorfman, and Walter N. Thurman, "Delivery Horizon and Grain Market Volatility," Journal of Futures Markets, 30(2010): 846-873.
- Karali, Berna, Jeffrey H. Dorfman, and Walter N. Thurman, "Do Volatility Determinants Vary Across Futures Contracts? Insights from a Smoothed Bayesian Estimator," Journal of Futures Markets 30(2010): 257-277.
- Karali, Berna and Walter N. Thurman, "Announcement Effects and the Theory of Storage: an Empirical Study of Lumber Futures Markets," Agricultural Economics 40(2009): 421-436.
- McFall, Todd A. Charles R. Knoeber, and Walter N. Thurman, "Contests, Grand Prizes and the Hot Hand," Journal of Sports Economics 10(2009): 236-255.
- Brown, A. Blake, Randal R. Rucker, and Walter N. Thurman, "The End of the Federal Tobacco Program: Economic Impacts of the Deregulation of U.S. Tobacco Production," Review of Agricultural Economics 29(2007): 635-655.
- Rucker, Randal R., Walter N. Thurman, and Jonathan K. Yoder, "Estimating the Speed of Market Reaction to News: Market Events and Lumber Futures Prices," American Journal of Agricultural Economics 87(2005): 482-500.
- Murray, Brian C., Walter N. Thurman, and Andrew Keeler, "Tax Interaction Effects, Environmental Regulation, and 'Rule of Thumb' Adjustments to Social Cost," Environmental and Resource Economics 30(2005): 73-92.
- Park, Hoanjae, Walter N. Thurman, and J.E. Easley, Jr., "Modeling Inverse Demands for Fish: Empirical Welfare Measurement in Gulf and South Atlantic Fisheries," Marine Resource Economics 19(2004): 333-351.
- Muth, Mary K., Randal R. Rucker, Walter N. Thurman, and Ching-Ta Chuang, "The Fable of the Bees Revisited: Causes and Consequences of the U.S. Honey Program," Journal of Law and Economics 46(2003): 479-516.
- Thurman, Walter N., Tyler J. Fox, and Talyer H. Bingham, "Imposing Smoothness Priors in Applied Welfare Economics: An Application of the Information Contract Curve to Environmental Regulatory Analysis," Review of Economics and Statistics 83(2000): 511-522.
- Park, Hoanjae and Walter N. Thurman, "On Interpreting Inverse Demand Systems: A Primal View of Scale Flexibilities and Income Elasticities," American Journal of Agricultural Economics 81(1999): 950-958.

Refereed Journal Articles - continued

- Robenstein, Rodney G. and Walter N. Thurman, "Health Risk and the Demand for Red Meat: Evidence from Futures Markets," Review of Agricultural Economics 18(1996): 629-641.
- Knoeber, Charles R. and Walter N. Thurman, "Don't Count Your Chickens: Risk and Risk Shifting in the Broiler Industry," American Journal of Agricultural Economics 77(1995): 486-496.
- Rucker, Randal R., Walter N. Thurman, and Daniel A. Sumner, "Restricting the Market for Quota: An Analysis of Tobacco Production Rights with Corroboration from Congressional Testimony," Journal of Political Economy 103(1995): 142-175. Quality of Research Discovery Award, American Agricultural Economics Association, 1996.
- Borges, Robert B. and Walter N. Thurman, "Marketing Quotas and Random Yields: The Marginal Effects of Inframarginal Subsidies on Peanut Supply," American Journal of Agricultural Economics 76(1994): 809-817.
- Knoeber, Charles R. and Walter N. Thurman, "Testing the Theory of Tournaments: An Empirical Analysis of Broiler Production," Journal of Labor Economics 12(1994): 155-179; reprinted in Personnel Economics, edited by E.P. Lazear and R. McNabb, Edward Elgar Publishing, Ltd., 2004. Publication of Enduring Quality Award, Agricultural and Applied Economics Association, 2012.
- Thurman, Walter N. "The Welfare Significance and Non-significance of General Equilibrium Demand and Supply Curves," Public Finance Quarterly 21(1993): 449-469.
- Thurman, Walter N. and J.E. Easley, Jr., "Valuing Changes in Commercial Fishery Harvests: A General Equilibrium Derived Demand Analysis," Journal of Environmental Economics and Management 22(1992): 226-240; reprinted in Applied Welfare Economics, edited by R.E. Just, D.L. Hueth, and A. Schmitz, Edward Elgar Publishing, Ltd., 2008.
- Rucker, Randal R. and Walter N. Thurman, "The Economic Effects of Supply Controls: The Simple Analytics of the U.S. Peanut Program," Journal of Law and Economics 33(1990): 483-515.
- Thurman, Walter N. and Michael K. Wohlgenant, "Consistent Estimation of General Equilibrium Welfare Effects," American Journal of Agricultural Economics 71(1989): 1041-1045.
- Fisher, Douglas and Walter N. Thurman, "Sweden's Financial Sophistication in the Nineteenth Century: An Appraisal," The Journal of Economic History 49(1989): 621-634.

Refereed Journal Articles - continued

- Thurman, Walter N. "Unconditional Asymptotic Results for Simple Linear Regression," The American Statistician 43(1989): 148-152.
- Thurman, Walter N. "Speculative Carryover: An Empirical Examination of the Refined Copper Market," The Rand Journal of Economics 19(1988): 420-437.
- Thurman, Walter N. and Mark E. Fisher, "Chickens, Eggs, and Causality," American Journal of Agricultural Economics 70(1988): 237-238.
- Thurman, Walter N. "The Poultry Market: Demand Stability and Industry Structure," American Journal of Agricultural Economics 69(1987): 30-37.
- Thurman, Walter N. "Endogeneity Testing in a Supply and Demand Framework," Review of Economics and Statistics 68(1986): 638-646.
- Baden, J., R. Stroup, and W. N. Thurman, "Myths, Admonitions, and Reality: The American Indian as Resource Manager," Economic Inquiry 19(1981): 132-143.

Publications - Books and Monographs

Thurman, Walter N., Assessing the Environmental Impact of Farm Policies, AEI Press, Washington, D.C., 1995.

Publications - Other Journal Articles

Parker, Dominic and Walter Thurman, "Private Land Conservation and Public Policy: Land Trusts, Land Owners, and Conservation Easements," Annual Review of Resource Economics 11(2019): 337-354 .

Thurman, Walter N., George Kosicki, and Ted Davis, "Food Safety Concerns: Impact on Prices and Producers," Food and Drug Law Institute Update (January 2013): 24-28.

Thurman, Walter N., "Review of *The Futures* by Emily Lambert," Agribusiness (Fall 2011).

Caron, Dewey, Michael Burgett, Randal Rucker and Walter Thurman, "Honey Bee Colony Mortality in the Pacific Northwest: Winter 2008/2009" American Bee Journal (March 2010): 265-270.

Burgett, Michael, Stan Daberkow, Randal Rucker, and Walter Thurman, "U.S. Pollination Markets: Recent Changes and Historical Perspective" American Bee Journal (January 2010): 35-40.

Daberkow, Stan, Randal Rucker, Walter Thurman, and Michael Burgett, "U.S. Honey Markets: Recent Changes and Historical Perspective" American Bee Journal (December 2009): 1125-1129.

Burgett, Michael, Randal R. Rucker, and Walter N. Thurman, "Honey Bee Colony Mortality in the Pacific Northwest, Winter 2007/2008 " American Bee Journal (May 2009): 573-576.

Burgett, Michael, Randal R. Rucker, and Walter N. Thurman, "Economics and Honeybee Pollination Markets," American Bee Journal (April 2004): 269-271.

Thurman, Walter N., "Bayesian Specification Analysis in Econometrics: Comment" American Journal of Agricultural Economics 83(2001): 1187-1189.

Muth, Mary K. and Walter N. Thurman, "Why Support the Price of Honey," Choices, 2nd quarter, 1995, pp. 19-23; reprinted in The Best of Choices, Harry Ayer, ed., American Agricultural Economics Association, 1996.

Other Journal Articles - continued

- Morales, Roberta A. and Walter N. Thurman, "Methods for Analyzing the Effects of Salmonella Outbreaks on Poultry Prices," Preventive Veterinary Medicine, 16 (1993): 65-66.
- Easley, J.E., Jr. and Walter N. Thurman, "Improved Valuation of Changes in Fishery Harvests: Measuring Effects on Consumer and Seafood Supply Firms," Proceedings of the Tropical and Subtropical Fisheries Technological Society, (1991): 223-231.
- Thurman, Walter N., "Applied General Equilibrium Welfare Analysis," American Journal of Agricultural Economics 73 (1991): 1508-1516.
- Martinez, Miguel A. and Walter N. Thurman, "Apple Price Paths and Foreign Market Shocks," Agrociencia serie Socioeconomia 2 (1991): 9-40.
- Thurman, Walter N. "Understanding Real Interest Rates: Discussion," American Journal of Agricultural Economics 70 (1988): 1076-1077.
- Thurman, Walter N. "Resolving the Tragedy of the Commons in Wildlife: Comment," The Cato Journal 1 (1981): 469-471.

Publications - Papers in Collection and Book Chapters

- Thurman, Walter N. and Randal R. Rucker, "Markets, Evolved Systems, and Livestock Disease: the Case of Colony Collapse Disorder," in *Agriculture and Forestry: Property Rights, Economics, and Environment*," proceedings of a conference held June 21-23, 2012 at Aix Marseilles University, M. Falque and H. Lamotte eds.
- Parker, Dominic P. and Walter N. Thurman, "Conservation Easements: Tools for Conserving and Enhancing Ecosystem Services," in *The Encyclopedia for Energy, Natural Resource, and Environmental Economics, vol. 2: Resources*," J. Shogren ed., Elsevier, (2013): 133-143.
- Hilmer, Christiana, Walter N. Thurman, and Roberta Morales, "The Distributional Effects of Food Safety Regulation in the Egg Industry," in The Economics of HACCP, pages 133-148, ed. by L.J. Unnevehr, 2000, Eagan Press.
- Rucker, Randal R., Walter N. Thurman, and Robert B. Borges, "GATT and the U.S. Peanut Market" in Regulation and Protectionism Under GATT: Case Studies in North American Agriculture, pages 160-179, ed. by A. Schmitz, G. Coffin, and K. Rosaasen, 1996, Westview Press.
- Thurman, Walter N., "Farm Programs and the Environment" in Agricultural Policy Reform in the United States, ed. by D.A. Sumner, 1995, AEI Press.

Papers in Collection and Book Chapters - continued

Murdza, P.J., T.T. Applegate, and W.N. Thurman, Study Manual for the Examinations of the Casualty Actuarial Society - Fall 1993, Part 5A, Casualty Study Manuals, Durham, North Carolina, 1993.

Rucker, Randal R., Walter N. Thurman, and Daniel A. Sumner, "An Economic Analysis of the Effects of Eliminating Restrictions on the Transfer of Tobacco Quota," in Current Issues in Tobacco Economics, vol. 4, edited by Farrell Delman, Thomas Slane, Michael Marion, 1991.

Thurman, Walter N. "Have Meat Price and Income Elasticities Changed? Their Connection with Changes in Marketing Channels," in The Economics of Meat Demand ed. by Rueben C. Buse, 1989, p. 157-169.

Thurman, Walter N. "Reaction to Storage, Stability, and Farm Programs by Brian Wright," in Agricultural Stability and Farm Programs, ed. by Daniel A. Sumner, 1988.

Tolley, G., J. Hodge, J. Oehmke and W.N. Thurman, "A Framework for Evaluation of Research and Development Policies," Chapter 1 in The Economics of Research and Development Policy, Praeger Publishers, 1984.

Publications - Popular Press

Thurman, Walter N. and Shu Li, "Transportation Infrastructure and the Price of Corn," NC State Economist, November/December 2012.

Rucker, Randal R. and Walter N. Thurman, "Blessed Are the Beekeepers," The Wall Street Journal, June 22, 2011.

Rucker, Randal R. and Walter N. Thurman, "Counterproductive Price-Gouging Laws," The News & Observer, Raleigh, North Carolina, October 11, 2008.

Rucker, Randal R. and Walter N. Thurman, "Counterproductive Price-Gouging Laws," The News & Observer, Raleigh, North Carolina, October 11, 2008.

Parker, Dominic P. and Walter N. Thurman, "The Private and Public Economics of Land Trusts," NC State Economist, July/August 2004.

Thurman, Walter N., "The Economics of Bees," NC State Economist, July/August 2003.

Chvosta, Jan, Randal R. Rucker and Walter N. Thurman, "Texas Post-FAIR: The Big Get Bigger and the Small Decline" The Peanut Farmer, May 2001.

Popular Press - continued

Chvosta, Jan, Randal R. Rucker and Walter N. Thurman, "Post-FAIR: How Has Peanut Production Changed Since 1996," The Peanut Farmer, April 2001.

Knoeber, Charles R. and Walter N. Thurman, "The Risk-Shifting Effects of Broiler Contracts," Broiler Industry, August 1996: 26-31.

Brown, A. Blake and Walter N. Thurman, "A Summary of the Effects of GATT on U.S. Peanut Markets," extension fact sheet, September 1994.

Knoeber, Charles R. and Walter N. Thurman, "Broiler Contracting: Smooths Grower Incomes, Shifts Price Change Risk, but Critics Maintain Gains Accrue Largely to Integrators," N.C. State Economist, September 1994.

Knoeber, Charles R. and Walter N. Thurman, "The Risk-Shifting Effects of Broiler Contracts," N.C. State Economist, September 1994.

Thurman, Walter N. "Reasons Debated for Consumption Pattern Changes," N.C. State Economist, April 1993.

Thurman, Walter N. "Relative Prices," N.C. State Economist, March 1990.

Thurman, Walter N. "Has Poultry Consumption Risen Because Prices Have Dropped?" Processed Poultry, January/February 1989: 32-34.

Thurman, Walter N. "Chicken Cycles," Tar Heel Economist, May 1988.

Thurman, Walter N., "Effects of the Peanut Program," Tar Heel Economist, February 1988.

Thurman, Walter N. "Distinguishing Between Price Effects and Preference Changes," Tar Heel Economist, February 1986.

Thurman, Walter N. and James E. Standaert, "Reasons for Changes in Meat Consumption Composition," Tar Heel Economist, February, 1986.

Thurman, Walter N. "Why Has Poultry Consumption Doubled?" Breakthrough (published by the N.C. State Univ. Dept. of Poultry Science), December 1985.

Presentations and Appearances

“Pollination Markets and Bee Forage,” Lead Off Speaker at Apimondia 2019 session, Montreal, Canada, September 10, 2019

“Combing the Landscape: The Introduction of Honey Bees into Western American Agriculture and the Evolution of Migratory Beekeeping,” with Randal Rucker, presented at Chapman University’s Smith Institute, April 2019.

Kalinin, Alexey, Dominic Parker, Walter Thurman, Qian Yao, “Self-Regulation in the Non-Profit Sector: The Case of Land Trusts,” presented at Virginia Tech’s Dept. of Agricultural and Applied Economics, November 30, 2018.

Parker, Dominic and Walter N. Thurman, “Taxes and the Price of Conservation,” presented paper at the AAEA annual meetings, July 27, 2015, San Francisco

Thurman, Walter N., “Welfare Impacts of Pollinator Health Challenges,” presentation at AAEA pre-conference workshop, “Economics of Pollinator Health,” July 26, 2014, Minneapolis

Thurman, Walter N., “Wally Thurman on Bees, Beekeeping, and Coase,” *EconTalk* podcast: http://www.econtalk.org/archives/2013/12/wally_thurman_o.html

Thurman, Walter N., *John Stossel Show* (Fox Business Network) appearance, August 1, 2013, on honey bee disease: <http://www.youtube.com/watch?v=pIUSQYtkELQ>.

Thurman, Walter N., “The Market Response to Bee Disease,” invited presentation at ICREI, Aix-en-Provence, France, June 21, 2012.

Thurman, Walter N., “On Markets,” the 2011 Harris Lecture at Clemson University, the John E. Walker Department of Economics.

Discussant at the American Enterprise Institute Farm Bill Workshop, Washington D.C., December 2010.

Karali, Berna, Kevin Mcnew, and Walter Thurman, “The Basis Effects of Failures to Converge,” presented at the 2010 meetings of the NCCC-134 Committee on Applied Commodity Price Analysis, Forecasting, and Market Risk Management in St. Louis, Missouri.

Rucker, Randal R., Walter N. Thurman, and Michael Burgett, “The Economic Consequences of Colony Collapse Disorder,” presentation at 2009 Agricultural and Applied Economics Association in Milwaukee, Wisconsin.

Presentations and Appearances - continued

Thurman, Walter N. "Pollination Economics," the 2009 Rod Zeimer Lecture at the University of Georgia Department of Agricultural & Applied Economics.

Parker, Dominic P. and Walter N. Thurman, "Crowding Out Open Space: Federal Land Programs and their Effects on Private Land Trust Activity," 2004 meetings of the American Agricultural Economics Association, Denver. Also presented at Montana State University, Michigan State University, and the University of Illinois in summer and fall 2004.

Thurman, Walter N. "A Classical Liberal View of Land Trusts," presented at the biennial international meeting of the Mont Pelerin Society Meetings in Salt Lake City, August 2004.

Rucker, Randal R., Walter N. Thurman, and Michael Burgett, "The Internalization of Reciprocal Benefits: An Analysis of Honeybee Pollination Markets," presented at U. of Maryland, Montana State, UC-Davis, Utah State, Washington State, and Oregon State Universities, spring and summer 2002, Clemson University and the University of Maryland, 2003.

Chvosta, Jan, Walter N. Thurman, and A. Blake Brown, "The Economic Effects of Recent Change in Federal Peanut Policy," presented at American Peanut Research and Education Society meetings in Raleigh, North Carolina, July 20, 2002.

Walter N. Thurman and A. Blake Brown, "The Economic Consequences of the Elimination of the Tobacco Program," presented at the Tobacco Workers Conference in Pinehurst, North Carolina, January 15, 2002.

Rucker, Randal R. and Walter N. Thurman, "An Empirical Analysis of Honeybee Pollination Markets," presented at the 2001 summer meetings of the American Agricultural Economics Association in Chicago, IL.

Chvosta, Jan, Randal R. Rucker, and Walter N. Thurman, "Peanut Quota Markets and Peanut Production after FAIR," presented at the 2001 summer meetings of the American Agricultural Economics Association in Chicago, IL.

Rucker, Randal R., Jonathon K. Yoder, and Walter N. Thurman, "An Economic Analysis of the Determinants of Lumber Futures Price Movements," presented at the 1999 summer meetings of the American Agricultural Economics Association in Nashville, Tennessee.

Thurman, Walter N., Tyler Fox and Tayler Bingham, "Imposing Smoothness Priors in Applied Welfare Economics: An Analysis of Environmental Regulation in the Pulp and Paper Industry," presented to the U. of Arizona Econometrics Workshop, Tucson AZ, April 23, 1999.

Presentations and Appearances - continued

- Thurman, Walter N. and Francis G. Scrimgeour, "Agricultural Marketing Boards: The Structure of Rent Dissipation in New Zealand," presented at the meeting of the International Agricultural Trade Research Consortium, Washington, D.C., December 15, 1996.
- Muth, Mary, Randal R. Rucker, Walter N. Thurman, and Ching-Ta Chuang, "A Post Mortem of the U.S. Honey Program," presented at Kansas State University's Department of Agricultural Economics, March 22, 1996.
- Muth, Mary, Randal R. Rucker, Walter N. Thurman, and Ching-Ta Chuang, "A Post Mortem of the U.S. Honey Program," presented at Tulane University's Department of Economics, February 23, 1996.
- Park, Hoanjae and Walter N. Thurman, "On Interpreting Inverse Demand Systems: A Primal View of Scale Flexibilities and Income Elasticities," paper presented at the NCSU Agricultural Economics Workshop, February 13, 1996.
- Muth, Mary, Walter N. Thurman, and Ching-Ta Chuang, "A Post Mortem of the U.S. Honey Program," presented paper at the 1996 meetings of the Southern Agricultural Economics Association in Greensboro, North Carolina.
- Thurman, Walter N., "The Environmental Effects of Agricultural Policy," paper presented at an American Enterprise Institute conference, "Future Directions in Agricultural Policy," held in Washington, D.C. on November 3-4, 1994.
- Thurman, Walter N., "Restricting the Market for Quota: An Analysis of Tobacco Production Rights with Corroboration from Congressional Testimony," presented at the Brigham Young University Department of Economics, June 21, 1994.
- Borges, Robert B. and Walter N. Thurman, "Production Quotas and Random Yields: The Marginal Effects of Inframarginal Subsidies on Peanut Production," at the presented at the annual meetings of the American Agricultural Economics Association in Orlando, Florida, August 1993.
- Robenstein, Rodney and Thurman, Walter N., "Health Risk and the Demand for Red Meat: Evidence from Futures Markets," presented at the annual meetings of the American Agricultural Economics Association in Orlando, Florida, August 1993.
- Morales, Roberta and Thurman, Walter N., "Welfare Analysis in a Market with Multiple Distortions: The Case of Salmonella enteritidis in Eggs," presented at the annual meetings of the American Agricultural Economics Association in Orlando, Florida, August 1993.

Presentations and Appearances - continued

- Easley, J.E., Jr. and Walter N. Thurman, "Valuation of Commercial Harvest: Practical considerations for Fishery Management of the General Equilibrium Derived Demand and a Recent Application," presented at the International Conference on Fisheries Economics, Centre for Fisheries Economics, Norwegian School of Economics and Business Administration, Bergen, Norway, May 1993.
- Thurman, Walter N. "Imposing Priors in Applied Welfare Analysis: Applications of Learner's Information Contract Curve," seminar presented at the University of California-Davis Department of Agricultural Economics, June 7, 1993.
- Thurman, Walter N. "Applied General Equilibrium Welfare Analysis," presented at the annual meetings of the American Agricultural Economics Association in Manhattan, Kansas, August 1991.
- Thurman, Walter N. and Randal R. Rucker, "The Side Effects of Supply Controls," presented at the annual meetings of the American Agricultural Economics Association in Manhattan, Kansas, August 1991.
- Rucker, Randal R., Walter N. Thurman, and Daniel A. Sumner, "The Economic Effects of Transferability Restrictions on Tobacco Quota," presented at the 1991 annual meetings of the American Agricultural Economics Association in Vancouver, British Columbia, August 1990.
- Thurman, Walter N. "The Welfare Significance of General Equilibrium Supply and Demand Curves," The University of Waikato, Hamilton, New Zealand, September 1990 and Lincoln University, New Zealand, December 1990.
- Thurman, Walter N. "On The Welfare Significance of General Equilibrium Demand and Supply Curves," UNC-Wilmington Dept. of Economics and Finance workshop, December 1989.
- Thurman, Walter N. "Two Illustrations of the Welfare Significance of a General Equilibrium Demand Curve," NCSU Natural Resource Economics workshop, August 22, 1989.
- Thurman, Walter N. and Michael K. Wohlgenant, "Consistent Estimation of General Equilibrium Welfare Effects," presented at the annual meetings of the American Agricultural Economics Association in Knoxville, Tennessee, August 1988.
- Thurman, Walter N. "The Welfare Significance of General Equilibrium Demand Curves and their Consistent Estimation," NCSU Department of Statistics workshop, Sept. 20, 1988.

Presentations and Appearances - continued

Hakeem, Salih A. and Walter N. Thurman, "Futures-based Price Forecasts When Futures Markets Don't Exist," presented at the annual meetings of the American Agricultural Economics Association in Knoxville, Tennessee, August 1988.

Thurman, Walter N. "Risk in Broiler Production," presented at the annual meeting of the Southern Agricultural Economics Association in New Orleans, February 1988.

Thurman, Walter N. "Apple Prices and Storage Technology," meeting of the Southern Agricultural Economics Association in Nashville, Tenn., February 1987.

Thurman, Walter N. "Have Meat Price and Income Elasticities Changed? Their Connection with Changes in Marketing Channels," prepared for presentation at a symposium, "The Demand for Red Meat," sponsored by The Southern Regional Research Committee (S-165) and the Board of Agriculture of the National Research Council held October 20-21, 1986 in Charleston, South Carolina.

Thurman, Walter N. "Endogeneity Testing in Supply and Demand Systems with an Application to the Demand for Poultry Meat," presented at the 1985 American Agricultural Economics Association summer meeting in Ames, Iowa.

Professional and Department Service

- Editor of the *American Journal of Agricultural Economics*, 2006-2010.
- Member of the Publication of Enduring Quality Award Subcommittee for the Agricultural and Applied Economics Association, 2009-2012.
- Member of Publications Committee for the AAEA, 2007-2010.
- Organizer of “Contracting for Ecosystem Services,” conference in Chapel Hill, North Carolina, sponsored by PERC, November 8-10, 2010.
- Co-organizer of “Genetic Manipulation of Pest Species: Ecological and Social Challenges,” an international conference held at NCSU March 2009.
- External reviewer of the University of California, Davis graduate program in Agricultural & Resource Economics, January 2009.
- External review panel member for the Department of Statistics, North Carolina State University, March 2004.
- Invited participant in the Technical Assistant Visit (external review) of the U.S. Forest Service Southern Research Station, November 2003
- Academic Review Team member for the Department of Agricultural and Resource Economics at the University of Arizona, 2001
- Editorial Board member for *Choices*, 1998-2002
- Agricultural Policy Topic Leader for Selected Papers for the annual meetings of the American Agricultural Economics Association, 2000
- Member of Awards Committee for Quality of Communication for the American Agricultural Economics Association, 1999-2001
- Member of Awards Committee for Quality of Teaching for the American Agricultural Economics Association, 1999-2001
- Academic Consultant for the Casualty Actuarial Society and Society of Actuaries, 1994-present. Duties comprise advising the Society on the economics portion of their semi-annual examination.
- Senior Associate Editor of the *American Journal of Agricultural Economics*, 1993-1997
- Chair and member of the Awards Committee for Quality of Research Discovery for the American Agricultural Economics Association, 1993 (chair), 1992 (member)
- Grant proposal reviewer for the National Science Foundation
- Grant proposal reviewer for USDA National Research Initiative Grant Competition

Professional and Department Service - continued

Referee for:

American Economic Review, American Journal of Agricultural Economics, American Statistician, Australian Journal of Agricultural Economics, Canadian Journal of Agricultural Economics, Energy Journal, Environmental and Resource Economics, European Economic Review, European Financial Management, Journal of Agricultural & Resource Economics, Journal of Business and Economics Statistics, Journal of Economic Education, Journal of Economic Entomology, Journal of Environmental Economics and Management, Journal of Futures Markets, Journal of Law & Economics, Journal of Political Economy, Journal of Production Economics, Journal of Sports Economics, Land Economics, New Zealand Economic Papers, Oxford Economic Papers, Poultry Science, PLOS ONE, Review of Financial Economics, Rand Journal of Economics, Review of Economics and Statistics, Scandinavian Journal of Economics, Southern Journal of Agricultural Economics, Western Journal of Agricultural Economics.

Committee work and other departmental and university service:

Owens Chair Search Committee, 2020
 ARE Department Head Search Committee, 2019
 Chair of Grain Production and Transportation Search Committee, 2017
 Chair of Development Economics Search Committee, ARE/GES, 2012-2013
 Chair of Kenneth Keller Graduate Research Award Committee, 2010
 College of Ag. and Life Sciences Strategic Planning Study Group member, 2008
 University Promotion and Tenure Committee, 2001-2001
 Agricultural Economics Workshop Coordinator, 1999-2008
 ARE Marketing and Development Committee Member, 1998-present
 College of Ag. and Life Sciences Research Committee, 1999-2001
 Departmental graduate admission committee, 1989-1993, 1996-2001, 2004-2006.
 College of Ag. and Life Sciences Tenure and Promotion Committee, 1999-2001
 Chair, economics graduate program admissions committee, 1996-1999
 College of Ag. and Life Sciences Associate Dean search committee, 1998
 Economics search committee, 1991-1993, 1995-1996, 2001-2002
 Served as CALS representative at ITA English Proficiency Screenings, 1995-1996.
 Chair of ARE committee to evaluate 9-month appointments, 1995-1996.
 College of Ag. and Life Sciences long-range planning committee, 1995.
 College of Ag. and Life Sciences grad. committee, 1991-1995.
 Ag. and Resource Economics search committee, 1993-1994, 2001-2002, 2019
 Ad hoc econometrics search committee, 1993-1994.
 Ag. and Resource Economics CSRS Review Committee, 1993.
 Preliminary exam committee Winter 1987 - Winter 1989, Summer 1991, Summer 1999
 Summer 2001, Summer 2011-present
 Undergraduate curriculum committee 1986-87, 1987-88, 1988-89.
 Economics and Business search committee 1983-84 and 1984-85.

Courses Taught at NCSU

Undergraduate:

EC 201 - Principles of Microeconomics
EC 301 - Intermediate Microeconomics
ARE 311 - Agricultural Markets
EC/ARE 336 - Introduction to Environmental Economics
ARE 415 - Introduction to Commodity Futures Markets

Graduate:

ECG 561/750 - Intermediate Econometrics
ECG 701 - Microeconomic Theory I
ECG 702 - Prices, Value, and Welfare (Microeconomic Theory II)
ECG 741 - Agricultural Production and Supply (Agricultural Economics Field Course)
ECG 742 - Consumption, Demand, and Market Interdependency
(Agricultural Economics Field Course)
ECG 751 - Econometric Methods

Graduate Student Advising

Ph.D. committees - graduated

(Economics unless otherwise indicated)

Committee chair or co-chair for the following students:

Borges, Robert
 Butry, David
 Callahan, Scott
 Chuang, Ted
 Chvosta, Jan
 Deese, William
 Dudley, Mitchell
 Fatal, Shay
 Ferrier, Peyton
 Frechette, Darren
 Hakeem, Salih Abdul
 Jacobs, Keri
 Karali, Berna
 Kim, Moon Joon
 Kincaid, Joel
 Li, Shu
 Maranakis, Kosmas
 Martin, Laura
 Markson, Kelly
 Martinez, Miguel
 Mohd-Noor, Zulridah
 Moore, Christopher
 Morales, Roberta
 Park, Hoanjae
 Parton, Lee
 Roka, Fritz
 Schafer, Hartwig
 Schuhmann, Peter
 Seabolt, James
 Swanser, Kole
 Tsang, Steve
 Wadood, Syed
 Walsh, Amanda Clayton
 Wood, Dallas
 Xu, Xiaojie
 Yang, Haoshi

Committee member for the following students:

Abashidze, Nino
 Abdelmagid, Benaga
 Ahrendsen, Bruce
 Bauch, Simone (joint with Forestry)
 Beach, Robert
 Belasco, Eric
 Boonsang, Tullaya
 Bouchard, Dylan
 Brester, Gary
 Brimlow, Jacob
 Brown, Blake
 Brown, Greg
 Brown, John William
 Chang, Ruey-er
 Chen, Barbara
 Chen, Ying-Erh
 Clark, John Stephen
 Clay, Marie
 Collett-Schmit, Kristen
 Courbois, Claude
 Darwin, Robert
 DaSilva, Orlando
 Davis, George
 DeJuan, Joseph
 Domdom, Aleta
 Dundas, Steven
 Eastwood, Brian - Statistics
 Elsheimer, Bruce - Statistics
 Evans, Barry - Statistics
 Fontes, Rosa Maria Olivera
 Frazao, Elizabeth
 Fulcher, Charles
 Furlong, Kevin
 Giguere, Chris
 Girante, Joana
 Ghosh, Sarbashis
 Hamilton, Tim

Ph.D. committee member (continued)

Hegde, Aaron	Rezitis, Anthony
Heo, Jeonghoi	Roberts, Matthew C.
Hossain	Santeramo, Fabio
Houng, Shiou-Yin	Schwabe, Kurt
Huang, Ju-Chin (Statistic co-major)	Setiastuti, Sekar
Huang, Yue-Qiu	Solakoglu, Nihat
Jajri, Idris	Sung, Joo-Kyung
Jian, Jiang	Tran, Nam
Kassi, Aymard	Wang, Zhen
Ker, Alan	Wei, Wei
Kara, Omer	Wells, O. Fenton
Khalil, Tarek Mohamed - Statistics	Weng, Qifeng (Fox)
Kianafard, Farid - Statistics	Wu, Shenan
Koppit, Justin - Statistics	Wu, Yu
Lamb, Vivian	Yang, Tsung Yu (Joe)
Lee, Jong-Hwa	Yu, Yanru
Leegomonchai, Win	Zeff, Harrison (UNC-CH Env. Eng.)
Liang, Feifei	Zeng, Tao
Lin, Jen-Hsiang	Zeytoon, Ali
Long, Jonathan	Zhan, Congnan
Mai, Ziyi (Milton)	Zhen, Chen
Maia, Luiz	Zheng, Haiqing
Markson, Kelly	Zhu, Ying
Marsoem, Bambang	
McKenzie, Andrew	
McDowell, Allen	
McFall, Todd	
McNew, Kevin	
Mensah, Clifford	
Metcalf, Michael	
Moerz, Armin (Civil Engineering)	
Muth, Mary	
Naumenko, Sasha	
Nelson, Kelly	
Onel, Gulcen	
Ortiz, Laura Villegas	
Pope, Jaren	
Pornsawang, Chotima	
Pritchett, Irina	
Qiu, Feng	
Reed, Albert John	
Renkow, Mitchell Adam	

Master's committees - graduated

Committee chair or co-chair for the following Master's students:

Ball, Melanie - MS Economics
 Beal, Margaret - MS Economics
 Borges, Robert B. - ME
 Cotton, Steve - ME
 Bruns, David - ME
 Christoforidis, Andreas - ME
 Depro, Brooks - ME
 Eom, Young Sook - ME
 Erickson, Jonathan - ME
 Fisher, Mansfield - MS Economics
 Gallogly, Erin - ME
 Tianbi Jing - MS Economics
 Knisely, Joseph - ME
 Robenstein, Rodney - MS Ag. Econ.
 Schafer, Hartwig - ME
 Domdom, Aleta Catamora - ME
 Duggan, Wesley - MS Ag. Econ.

Committee member for the following Master's students:

Eccles, Bradley
 Esya Eyvazova
 Gregory, Linda Gail - MS Ag. Econ.
 Hilmer, Christiana - MS Statistics
 Homsy, Ghada - ME
 Kalinowski, Catherine - ME
 Kincaid, Joel - ME
 Metcalfe, Mark - MS Statistics
 Lopez, Martha - ME
 Plotnikova, Maria - ME
 Roy, Debiprasad - ME
 Roy, Priyanka - ME
 Sierra, Jose Augusto - ME
 Sabel, Thomas - ME
 Smith, Salma - ME
 Taylor, Ellis - ME
 Katie Thomas (Natural Resources)
 Wulan, Tririni - MS Ag. Econ.

Ph.D. committees - current

Committee chair or co-chair for the following Ph.D. students:

Daniyar Zhumadilov

Committee member for the following Ph.D. students:

Aglasan, Serkan
 Ba, Yuhao (Public Administration)
 Foster, Ben (UNC-CH Env. Eng.)
 Jones, Michael
 Siqi Zhang
 Zhu, Qihong

Master's committees - current

Grants and Contracts

Title: “A Fellowship Grant to Meet the National Need for Scientists Trained in Forest Products Marketing and Management”

Description: USDA/CSREES National Needs Graduate Fellowship Grant, 2009-2012

PIs: Walter N. Thurman, Barry K. Goodwin, and Raymond B. Palmquist

Amount: \$172,000

Title: “Economic Implications of Colony Collapse Disorder”

Description: Cooperative Agreement with USDA, 2008-2009

PIs: Walter N. Thurman and Randal R. Rucker

Amount: \$25,000

Title: “A Fellowship Grant to Meet the National Need for Scientists Trained in Forest Products Marketing and Management”

Description: USDA/CSREES National Needs Graduate Fellowship Grant, 2005-2008

PIs: Walter N. Thurman and Raymond B. Palmquist

Amount: \$280,000

Title: “The Impact of a Tobacco Program Buyout”

Description: North Carolina Tobacco Research Commission, 2005

PIs: A. Blake Brown and Walter N. Thurman

Amount: \$29,000

Title: “A Fellowship Grant to Meet the National Need for Scientists Trained in Forest Products Marketing and Management”

Description: USDA/CSREES National Needs Graduate Fellowship Grant, 2002-2005

PIs: Walter N. Thurman and Raymond B. Palmquist

Amount: \$276,000

Title: “Externalities in Agriculture: The Economics of Pollination and Honey Markets”

Description: USDA National Research Initiative (NRI) Competitive Grant, 2001-2003

PIs: Randal R. Rucker (Montana State U.), Walter N. Thurman, and Michael Burgett (Oregon State Dept. of Entomology)

Amount: \$135,000

Title: “An Economic Analysis of Tobacco Markets without the Tobacco Program”

Description: North Carolina Tobacco Research Commission grant, 2001

PIs: Walter N. Thurman and A. Blake Brown

Amount: \$5,000

Grants and Contracts - continued

Title: "The Economic Effects of Restrictions on the Transfer of Marketing Quota"
 Description: USDA National Research Initiative Grant, 1999-2000
 PIs: Randal R. Rucker and Walter N. Thurman
 Amount: \$52,000

Title: "Economic Analysis of Regulation to Control S. Enteritidis in Commercial Egg Production"
 Description: USDA National Research Initiative grant, 1996-1999
 PIs: Roberta A. Morales, Peter Cowen, Walter N. Thurman
 Amount: \$160,000

Title: "The Economics of Pathogen Control Using HAACP"
 Description: Cooperative Research Agreement with USDA, 1994-1997
 PIs: Walter N. Thurman and Jon Brandt
 Amount: \$69,000 for 1994-1995, \$174,000 total scheduled ERS contribution

Title: "The South Atlantic and Gulf Snapper-Grouper Complex: Demand Estimation for Selected Individual Species and the Composite Species Complex"
 Description: National Marine Fisheries Service project, 1994-1995
 PIs: J.E. Easley, Jr. and Walter N. Thurman
 Amount: \$110,000

Title: "Bioeconomics of Commercial/Recreational Fishery Harvest Allocation"
 Description: UNC Seagrant project, 1994-1995
 PIs: J.E. Easley, Jr. and Walter N. Thurman
 Amount: \$83,479

Title: "Risk and Contracting in the Broiler Industry"
 Description: N.C. Poultry Federation Grant, 1993
 PIs: Walter N. Thurman and Charles R. Knoeber
 Amount: \$3,000

Title: "Improved Valuation of Fisheries Harvest: Application of the General Equilibrium Derived Demand"
 Description: UNC Seagrant project, 1991-1993
 PIs: J.E. Easley, Jr. and Walter N. Thurman
 Amount: \$31,593

Grants and Contracts - continued

Title: "Economics of Salmonella enteritidis Control in a Laying Flock"
Description: Cooperative research agreement and cooperative education agreement with USDA to fund Roberta Morales' dissertation research, 1990-1992
PIs: Walter N. Thurman and Frank Jones (NCSU Poultry Science)
Amount: Cooperative education agreement - Two years of RA support for Morales
Cooperative research agreement - \$6,000

Title: "The Impacts of Supply Controls and Related Programs: Empirical Analysis and Implications"
Description: Cooperative research agreement with USDA, 1990-1991
PIs: Walter N. Thurman, Randal R. Rucker, and Daniel A. Sumner
Amount: \$15,000

Professional Consulting

Analysis Group, 2002-present. Consult on agricultural and natural resource market issues. Named an Academic Affiliate of AG in 2005.

Research Triangle Institute, Center for Economics Research, 1993-present. Collaborate with RTI on EPA study of the pulp and paper industry as well as other projects on welfare analysis of environmental regulations.

Arthur D. Little/TIAX, 2001-2003. Collaborated on Dept. of Energy project on the market for platinum group metals and the impact of widespread adoption of fuel cell technologies.

Society of Actuaries/Casualty Actuary Society, 1996-2002. Academic consultant to the committees preparing certifying exams in economics for actuaries.

New Zealand Treasury, 1996-1997. Commissioned study titled "An Economic Analysis of Agricultural Marketing Structures in New Zealand."

Triangle Economic Research, 1995-1996. Econometric work forecasting recreational beach attendance in connection with oil spill litigation. Testified at trial as an expert witness.