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## Terrance M. Hurley

January 2009

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### Education

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1995 Ph.D., Economics, Iowa State University  
1990 B.A., California State University, Sacramento  
Major: Economics Minor: Mathematics

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### Academic Positions Held

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2006 - Present Director of Graduate Studies, Applied Economics Graduate Program, University of Minnesota, Twin Cities  
2003 - Present Associate Professor, Applied Economics, University of Minnesota, Twin Cities  
1999 – 2003 Assistant Professor, Applied Economics, University of Minnesota, Twin Cities  
1998 - 1999 Assistant Professor, Environmental and Natural Resource Economics, University of Rhode Island  
1996 - 1998 Visiting & Associate Scientist, Center for Agricultural and Rural Development, Iowa State University  
1995 - 1996 Post-Doctoral Research Associate, Department of Economics, Iowa State University  
1993 - 1994 Instructor, Department of Economics, Drake University & Iowa State University  
1990 - 1995 Research & Teaching Assistant, Department of Economics, Iowa State University

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### Instructional Activity

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#### *Classes Taught*

Microeconomic Analysis: Fall 2008 (Enrollment: 23)  
Risk Analysis Modeling: Winter 2008 (with Andow, Haight, Johnson, & Venette; Enrollment: 8)  
PhD Graduate Seminar: Spring 2008 (Glewwe; 5), Spring 2007 (Smith; 7)  
Economic Data Analysis I: Fall 2005 (with G. McCullough; 15)  
Applied Game Theory: Fall 2007 (with Polasky; 14), Fall 2006 (Polasky; 14), Fall 2005 (Polasky; 5), Fall 2004 (Polasky; 13), Fall 2003 (Polasky; 9), Spring 2002 (Polasky; 10)  
Intermediate Microeconomics: Summer 2007 (13), 2006 (5), 2005 (16); Fall 2002 (84), 2001 (72)  
Bangladesh Training Program (Production/Consumption, 2 days), Fall 2000 (9)  
Advanced Microeconomic Theory II: Spring 1999 (with Swallow; 9)  
Labor Economics: Spring 1994 (9), Summer 1993 (23)

Public Finance: Summer 1993 (17), Summer 1992 (14)

### ***Guest Lectures***

Consumer Behavior & Policy (APEC 8401). Experimental Economics: What Text Books Fail To Mention. Instructor: B. Senauer. Fall 2005.

What Do Insurance Companies & Casinos Have in Common? Teaching Important Concepts Of Risk & Insurance With Experiments (College in Schools & Minnesota Council on Economic Education). Instructor: C. Parliament. Spring 2005.

Aspects of Precision Agriculture Economics (MAST 2420/S 4111). Instructor: Various. Spring 2001 - 2008.

Bt Corn and Insect Resistance Management. Class: Ecological Risk Assessment (Ent 4241/WRS 8050). Instructor: R. Venette. Spring 2000 - 2002.

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## **Advising**

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### ***Graduate Advising***

#### *Ph.D. Theses Advised to Completion*

Le Pham (2008): Factors that Affect the Existence and Characteristics of Separating Bayesian Equilibrium (with S. Polasky)

Ines Langrock (2007): Understanding Differences in Risky Behavior: How Much Do Differences in Risk Preferences and Risk Perceptions Matter?

Oishi Kikuo (2006): Does Precision Agriculture Pay? Profitability Potential Of Variable Rate Application Of Fertilizers Econometrics And Geostatistics Approaches

#### *Ph.D. Thesis Committees*

Kate Ko (2008)

Misty Heggness (2008)

Tetsuya Horie (2008)

Linh Vu (2008)

Michinori Uwasu (2008)

Erik Nelson (2007)

Moises Resende Filho (2006)

Charles Owach, Makerere University (2005)

Doyle Kalumbi (2002)

Silvia Secchi, Iowa State University (2000)

Allan Mussell (1999)

#### *M.S. Theses Advised to Completion*

Jose Rocha-Ramirez (2008, Plan B): Compliance With Bt Technical Requirements: The 2002 Minnesota And Wisconsin Farm Polls.

Ines Langrock (2004, Plan B): Farmer Demand For Corn Rootworm Bt Corn: Do Insect Resistance Management Guidelines Really Matter?

Yanmei Fu (2003, Plan B): The Impact of Technology Use on Employee Wages in the U.S. Hog Industry.

#### *M.S. Thesis Committees*

Olena Zakharova (2008)

#### *Research Assistants Supervised*

Stephen Aultman (Fall 2008 – Spring 2009)

Oishi Kikuo (Summer 2002 – Fall 2005)

Xiangming Fang (Spring 2004)

Jose Rocha-Ramirez (Spring 2002 – 2004)  
Yanmei Fu (Fall 2001-2003)

Ines Langrock (Summer 2003, Fall 2005)  
Pascal Elizabeth (Fall 1999 – Spring 2000)

*Teaching Assistants Supervised*

David Bael (Fall 2008)  
Ines Langrock (Fall 2001, 2002)

Juan Dominguez (Fall 2005)

***Undergraduate Advising***

*Undergraduate Research Opportunities Program Supervision*

Srinivas Jasti (2005 – 06). The Success Of Golden Rice In India.

Nathanial Peterson (2004 – 05). Explaining Behavioral Deviations from the Expected Utility Model.

*Internships Supervised*

Cailin Vandenberg (Minnesota Daily, Spring 2007)

Sara Kling (Merrill Lynch, Summer 2006)

Amanda Holman (Target, Fall 2005)

Samuel Schuette (Scottrade, Fall 2004)

Philip Reiter (Northwestern Mutual, Fall 2004)

Katie Tjornhom (Wells Fargo SBA, Spring 2004)

Katie Larson (United Leasing Inc., Fall 2003)

Philip Reiter (Pace Dairy Foods, Summer 2003)

Benjamin Haselbauer (Minneapolis Parks & Recreation Board, Spring 2003)

Betty Berning (St.Paul Saints, Summer/Fall 2002)

Scott Gilbert (Cargill, Summer 2002)

Caralee Anderson (Boynton Health Center, Spring 2002)

Jeff Rolf (Eat Fleet, Summer 2001)

*Independent Study Supervised*

Brenda Adams (Spring, 2002)

*Research Assistants Supervised*

Nathan Peterson (2004)

Jose Rocha-Ramirez (2002)

Aaron Wicks (1999)

Nicholas Jensen (1999)

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**Publications and Research Papers**

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***Journal Articles***

1. Hurley, Langrock, and Ostlie (2006). Estimating the Benefits of Bt Corn and Cost of Insect Resistance Management Ex Ante. *Journal of Agricultural and Resource Economics* 31(2): 355-375.
2. Merrill, Goldberger, and Hurley (2005). Bt Corn Farmer Compliance With Insect Resistance Management Requirements In Minnesota And Wisconsin. *AgBioForum* 8(2&3):151-160.
3. Hurley, Oishi, and Malzer (2005). Estimating the Potential Value of Variable Rate Nitrogen Applications: A Comparison of Spatial Econometric and Geostatistical Models. *Journal of Agricultural and Resource Economics* 30(2):231-249.
4. Hurley and Shogren (2005). An Experimental Comparison of Induced and Elicited Beliefs. *Journal of Risk and Uncertainty* 30(2):169-188.

5. Hurley, Malzer, and Kilian (2004). Estimating Site-Specific Crop Response Functions: A Conceptual Framework and Geostatistical Model. *Agronomy Journal* 96:1331-1343.
6. Hurley, Mitchell, and Rice (2004). Risk and the value of Bt Corn. *American Journal of Agricultural Economics* 86(2):345-358.
7. Mitchell, Hurley, Babcock, and Hellmich (2002). Insuring the Stewardship of Bt Corn: A Carrot versus A Stick. *Journal of Agricultural and Resource Economics* 27:390-405.
8. Hurley, Secchi, Babcock, and Hellmich (2002). Managing the Risk of European Corn Borer Resistance to Bt Corn. *Environmental and Resource Economics* 22:537-558.
9. Hurley, Babcock, and Hellmich (2001). Bt Corn and Insect Resistance: An Economic Assessment of Refuges. *Journal of Agricultural and Resource Economics* 26(1):176-194.  
**Note: Article winner of 2001 Outstanding JARE Article, Western Agricultural Economics Association.**
10. Hurley, Orazem, and Kliebenstein (2000). An Analysis of Occupational Health in Pork Production. *American Journal of Agricultural Economics* 82(2):323-333.
11. Hurley, Otto, and Holtkamp (1999). Valuation of Water Quality in Livestock Regions: An Application to Rural Watersheds in Iowa. *Journal of Agricultural and Applied Economics* 31(1).
12. Hurley, Orazem, and Kliebenstein (1999). Structure of Wages and Benefits in the U.S. Pork Industry. *American Journal of Agricultural Economics* 81:144-163.
13. Hurley and Shogren (1998). Asymmetric Information Contests. *European Journal of Political Economy* 14:645-665.
14. Hurley and Shogren (1998). Effort Levels in a Cournot-Nash Contest with Asymmetric Information. *Journal of Public Economics* 69(2):195-210.
15. Hurley (1998). Rent Dissipation and Efficiency in a Contest with Asymmetric Valuations. *Public Choice* 94:289-298.
16. Hurley and Shogren (1997). Environmental Conflicts and the SLAPP. *Journal of Environmental Economics and Management* 33(3):253-273.
17. Ribaudo and Hurley (1997). Economic and Environmental Effects Associated with Reducing the Use of Atrazine: An Example of Cross-Disciplinary Research. *Journal of Agricultural and Applied Economics* 29(1):87-97.

#### **Book Chapters**

1. Hurley and Mitchell (2008). Insect Resistance Management: Adoption and Compliance. *Insect Resistance Management: Biology, Economics, and Prediction* (D.W. Onstad). pp. 227-254.
2. Langrock and Hurley (2006). Farmer Demand for Corn Rootworm Bt Corn: Do Insect Resistance Management Guidelines Really Matter? *Regulating Agricultural Biotechnology: Economics and Policy* (R.E. Just, J.M. Alston, and D. Zilberman). New York: Springer Publishers. pp. 579-598. **Note: Book winner of 2006 Quality of Communication Award, American Agricultural Economics Association.**
3. Mitchell and Hurley (2006). Adverse Selection, Moral Hazard, and Grower Compliance with Bt Corn Refuge. *Regulating Agricultural Biotechnology: Economics and Policy* (R.E. Just, J.M. Alston, and D. Zilberman). New York: Springer Publishers. pp. 599-624. **Note: Book winner of 2006 Quality of Communication Award, American Agricultural Economics Association.**

4. Hurley, Secchi, and Hellmich (2006). Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. *Regulating Agricultural Biotechnology: Economics and Policy* (R.E. Just, J.M. Alston, and D. Zilberman). New York: Springer Publishers. pp. 559-578. **Note: Book winner of 2006 Quality of Communication Award, American Agricultural Economics Association.**
5. Hurley (2005). Bt Resistance Management: Experiences From the U.S. *Environmental Costs and Benefits of Transgenic Crops in Europe* (J. Wessler). Wageningen UR Frontis Series vol. 7, Springer, Dordrecht. pp. 81-93.
6. Hurley (2005). Comment on Kleter and Kuiper: Environmental fate and impact considerations related to the use of transgenic crops. *Environmental Costs and Benefits of Transgenic Crops in Europe* (J. Wessler). Wageningen UR Frontis Series vol. 7, Springer, Dordrecht. pp. 45-46.
7. Hurley and Babcock (2003). Valuing Pest Control: How Much is Due to Risk Aversion? *Risk Management and the Environment: Agriculture in Perspective* (B.A. Babcock, R.W. Fraser and J.N. Lekakis). Kluwer Academic Publishers. pp. 134-144.
8. Hurley, Secchi, Babcock, and Hellmich (2002). Managing the Risk of European Corn Borer Resistance to Bt Corn. *The Economics of Managing Biotechnologies* (T. Swanson, ed.). Kluwer Academic Publishers. pp. 171-193.
9. Settle, Hurley, and Shogren (2001). Citizen Suits. *The Law and Economics of the Environment* (A. Heyes, ed.). Edward Elgar Publishing. pp. 217-248.
10. Shogren and Hurley (1999). Experiments in Environmental Economics. *Handbook of Environmental and Resource Economics* (van den Bergh, ed.). Edward Elgar Publishing. pp. 1180-1190.
11. Hurley and Shogren (1998). Strategic Behavior in Incomplete Information Contests. *Advances in Applied Micro-economics Volume 7* (Baye ed.). JAI Press Inc. pp. 87-101.
12. Hurley and Shogren (1998). Theory and Behavior in Environmental Conflicts with Asymmetric Information. *Game Theory and the Global Environment* (Hanley and Folmer, eds.). Edward Elgar Publishing.
13. Shogren and Hurley (1997). Tournament Incentives in Environmental Policy Economics. *Sustainability and Global Environmental Policy: New Perspectives* (Dragun and Jakobsson, eds.). Edward Elgar Publishing. pp. 215-234.

#### **Conference Proceedings**

1. Hurley, Mitchell, and Frisvold (2009). Factors Affecting Weed Control Costs and Farmer Values for Roundup Ready® Cotton. *Proceedings of the Beltwide Cotton Conference*, San Antonio, TX, January 5-8, 2009.
2. Frisvold, Hurley, and Mitchell (2009). Cotton Grower Adoption of Weed Resistance Management Practices. *Proceedings of the Beltwide Cotton Conference*, San Antonio, TX, January 5-8, 2009.
3. Hurley, Mitchell, and Frisvold (2009). Adoption, Residual Herbicide Use And Grower Values For Roundup Ready® Cotton. *Proceedings of the Beltwide Cotton Conference*, San Antonio, TX, January 5-8, 2009.
4. Hurley, Oishi, and Malzer (Forthcoming). Temporal And Spatial Variability Of Corn Response To Fertilizer: What Is The Potential For Management? *Proceedings of the 8<sup>th</sup> International Conference on Precision Agriculture & Other Precision Resources Management*. Minneapolis, MN. July 24, 2006.

5. Mitchell, Hutchison, and Hurley (2005). Risk and the Value of Additional Insecticide Applications for European Corn Borer Control in Processing Sweet Corn. *Proceedings of the 2005 Midwest Food Processors Association Annual Meeting*. Madison, WI: Midwest Food Processors Association.
6. Hurley, Malzer, and Kilian (2002). A Test Of Within Field Variation For Corn Response To Nitrogen In Central Minnesota. *Proceedings of the 6<sup>th</sup> International Conference on Precision Agriculture and Other Resource Management* (eds. P.C. Robert, R.H. Rust, and W.E. Larson). Minneapolis, MN. July 14-17, 2002. ASA, CSSA, SSSA, Madison, WI.
7. Hurley, Malzer, and Kilian (2002). A test of within field variation of corn response to nitrogen in central Minnesota. *Precision Agriculture: Herausforderung an Integrative Forschung, Entwicklung und Anwendung in der Praxis* (eds. A. Werner and A. Jarfe). Kuratorium für Technik und Bauwesen in der Landwirtschaft e. V. (KTBL), Bartningstraße 49, 64289 Darmstadt. pp. 413-421.
8. Hutchison, Burkness, Pahl, and Hurley (2002). Integrating Novel Technologies for Cabbage IPM in the USA: Value of On-Farm Research. *Proceedings of the 4<sup>th</sup> International Workshop on the Management of Diamondback Moth and Other Crucifer Pests*. University of Melbourne, Australia, November 26-29, 2001.
9. Kilian, Hurley, and Malzer (2001). Economic aspects of precision agriculture: An economic assessment of different site-specific N-fertilization approaches. *Proceedings Third European Conference on Precisions Agriculture* (ed. S. Blackmore and G. Grenier). Agro. pp. 521-526.
10. Hutchison, Burkness, Pahl, Hurley, Weinzierl and Wedberg (2001). Risk-based Methods for Assessing the Value of IPM Technology: Examples for Cabbage and Sweet Corn. *Proceedings of the 2001 Midwest Food Processors Vegetable Conference*. La Crosse, WI.
11. Hurley (2000). An Economic Assessment of Resistance Management: The Case of Bt Corn. *Proceedings of the 19<sup>th</sup> Annual Crop Pest Management Short Course* (edited by Ken Ostlie, Kevin Cananaugh, and Tracey Benson). Minnesota Extension Service, University of Minnesota, St. Paul. pp. 205-212.
12. Kliebenstein, Hurley, and Orazem (1998). Employee Relations Outlook for the Pork Industry. *Proceedings of the Employee Relations Conference*. National Pork Producers Council, Des Moines, IA.
13. Gassman, Wu, Mitchell, Babcock, Hurley, and Chung (1998). Impact of U.S. Agricultural Policy on Regional Nitrogen Losses. *Proceedings of the 3<sup>rd</sup> International Conference on Diffuse Pollution (Poster Papers)*. Edinburgh, Scotland. International Association of Water Quality, London, England. pp. 115-122.

***Submitted Or In Progress***

1. Hurley (January 2009). Commentary: Evaluating Oversight Systems For Emerging Technologies: A Case Study Of Genetically Engineered Organisms.
2. Aultman, Hurley, Haight, and Homans (January 2009). Evaluating the Value of Monitoring Networks for Invasive Species: The Case of Soybean Rust.
3. Yue, Hurley, and Andersen (December 2008). Do Native and Invasive Labels Affect Consume Willingness to Pay for Plants? Evidence from Experimental Auctions.
4. Yu, Hurley, Kliebenstein, and Orazem (Submitted September 2008). Firm Size, Technical Change and Wages in the Pork Sector, 1990 -2005.

5. Yu, Hurley, Kliebenstein, and Orazem (Submitted September 2008). Testing for Complementarity and Substitutability among Multiple Technologies: The Case of U.S. Hog Farms.
6. Resende-Filho and Hurley (Submitted August 2008). Information Asymmetry and Traceability Incentives for Food Safety.
7. Hurley (May 2007). Understanding Risky Production, Insurance, and Self-Protection: A Classical Approach.
8. Hurley, Peterson, and Shogren (November 2006). Belief Elicitation: An Experimental Comparison of Scoring Rule and Prediction Methods.
9. Hurley, Oishi, and Malzer (In Preparation). Estimating The Potential Value Of Variable Rate Nitrogen Applications: How much Does Temporal Variation In Crop Response Matter?

#### *Miscellaneous*

1. Pardey, James, Alston, Wood, Koo, Binenbaum, Hurley, Glewwe, Mayer, Jones, De Groot, Kanampiu, McDermott, Jost and Mariner. 2007. Science, Technology and Skills. St. Paul, MN: University of Minnesota, International Science and Technology Practice and Policy.
2. Yu, Hurley, Kliebenstein, and Orazem. 2007. Testing for Complementarity and Substitutability among Multiple Technologies: The Case of U.S. Hog Farms. Selected Paper: AAEA Conference, Portland, OR. Available at [http://agecon.lib.umn.edu/cgi-bin/pdf\\_view.pl?paperid=26209&ftype=.pdf](http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=26209&ftype=.pdf)
3. Yu, Hurley, Kliebenstein, and Orazem. 2007. Firm Size, Technical Change and Wages: Evidence from the Pork Sector from 1990-2005. Selected Paper: AAEA Conference, Portland, OR. Available at [http://agecon.lib.umn.edu/cgi-bin/pdf\\_view.pl?paperid=26368&ftype=.pdf](http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=26368&ftype=.pdf)
4. Langrock and Hurley. 2006. Risk Preferences, Perceptions and Systematic Biases. Selected Paper: AAEA Conference, Long Beach, CA. Available at <http://agecon.lib.umn.edu/aaea06/sp06la09.pdf>
5. Oishi, Hurley, and Malzer. 2006. Evidence of Temporal Variation in Site-Specific Crop Response to Fertilizer Inputs. Selected Paper: AAEA Conference, Long Beach, CA. Available at <http://agecon.lib.umn.edu/aaea06/sp06oi01.pdf>.
6. Kliebenstein, Hurley, Orazem, Miller, and May. 2006. Work Environment, Job Satisfaction, Top Employees Work Interests. *Iowa State University Animal Industry Report 2006*. Iowa State University, University Extension. A.S. Leaflet R2166.
7. Kliebenstein, Hurley, Orazem, Miller, and May. 2006. Employee Rosters Rise; Wages Continue To Climb. *Iowa State University Animal Industry Report 2006*. Iowa State University, University Extension. A.S. Leaflet R2167.
8. Kliebenstein, Hurley, Orazem, Miller, and May. 2006. A Look at the Employment in the United States Swine Production Industry. *Iowa State University Animal Industry Report 2006*. Iowa State University, University Extension. A.S. Leaflet R2168.
9. Kliebenstein, Hurley, Orazem, Miller, and May. 2006. Looking for a Job, Finding the Right Employee. *Iowa State University Animal Industry Report 2006*. Iowa State University, University Extension. A.S. Leaflet R2169.
10. Hutchison, Burkness, Carrillo, Hurley, and Pahl. 2006. Fresh-market cabbage: Increasing economic returns while reducing risk. Public. 08230. Univ. of Minnesota Extension Service, St. Paul, MN.

11. Hutchison, Burkness, Carrillo, Galvan, Mitchell, and Hurley. 2006. Integrated Pest Management: A Risk Management Framework to Improve Decision-Making. University of Minnesota Extension Service, St. Paul, MN.
12. Hutchison, Burkness, Pahl, Hurley, and Mitchell. 2005. IPM-- Rationale for a Risk/Reward Framework to Accelerate the adoption of IPM: measuring and communicating risk within the context of client perceptions. Invited Presentation, Symposium on Innovations in Entomology, National Meeting of the Entomol. Soc. of America, Dec. 15-18th, Ft. Lauderdale, FL.
13. Hurley, Kliebenstein, Orazem, and Miller. Industry Survey Tracks Employment Trends. *National Hog Farmer*. June 15, 2005. pp. E3-E7.
14. Hurley, Kliebenstein, Orazem, and Miller. Employee Rosters Rise, Wages on the Upswing. *National Hog Farmer*. June 15, 2005. pp. E8-E15.
15. Hurley, Kliebenstein, Orazem, and Miller. Work Environment Tops Employee Priority Lists. *National Hog Farmer*. June 15, 2005. pp. E18-E23.
16. Hurley, Kliebenstein, Orazem, and Miller. Employees, Employers Search for the Right Fit. *National Hog Farmer*. June 15, 2005. pp. E24-E31.
17. Buttel, Merrill, Chen, Goldberger, and Hurley (2005). Bt corn farmer compliance with insect resistance management requirements: results from the 2002 Minnesota and Wisconsin farm polls. Staff paper P05-6, St. Paul, MN: University of Minnesota, Department of Applied Economics.
18. Mitchell, Zhu, and Hurley (2004). Adverse Selection, Moral Hazard, and Grower Compliance With Bt Corn Refuge. Selected Paper: AAEA Conference, Denver, CO. Available at <http://agecon.lib.umn.edu/>.
19. Rocha-Ramirez and Hurley (2003). Who is planting GM crops and why? The Thoughts and Experiences of Minnesota Farmers. Available at [http://www.apec.umn.edu/faculty/thurley/Extension/Extension\\_Home.html](http://www.apec.umn.edu/faculty/thurley/Extension/Extension_Home.html)
20. Langrock and Hurley (2003). Farmer Demand for Corn Rootworm Bt Corn: Do Insect Resistance Guidelines really matter? Selected Paper: AAEA Conference, Montreal, Canada. Available at <http://agecon.lib.umn.edu/>.
21. Hurley, Malzer, and Kilian (2003). Estimating Site-Specific Nitrogen Crop Response Functions: A Conceptual Framework and Geostatistical Model. Selected paper: AAEA Conference, Montreal, Canada. Available at <http://agecon.lib.umn.edu/>.
22. Hurley (2003). Book review: "De-gregori, Thomas R., *Agriculture and Modern Technology: A Defense*. Ames: Iowa State University Press, 2001, 268 pp., price unknown." *American Journal of Agricultural Economics* 85(2):516-518.
23. Hurley, Secchi, and Hellmich (2001). Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. *Staff General Research Papers # 2010*, Iowa State University, Department of Economics.
24. Mitchell, Hurley, and Rice (2001). What is the value of Bt corn? Selected paper: AAEA Conference, Chicago, IL. Available at <http://agecon.lib.umn.edu/>.
25. Hurley, Secchi, Babcock, and Hellmich (2001). Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. Selected paper: AAEA Conference, Chicago, IL. Available at <http://agecon.lib.umn.edu/>.
26. Hurley, Kilian, Malzer, and Dikici (2001). The Value of Information for Variable Rate Nitrogen Applications: A Comparison of Soil Test, Topographical, and Remote Sensing

- Information. Selected paper: AAEA Conference, Chicago, IL. Available at <http://agecon.lib.umn.edu/>.
27. Thiesse, Hurley, Potter, Anderson, Weness, Hicks, Reynolds and Wilcke (May 10, 2001). Delayed Planting Strategies.
  28. Hurley, Kliebenstein, and Orazem (2001). Trends in U.S. Pork Industry Employment. *2000 Swine Research Report*. Iowa State University, University Extension. pp. 128-130.
  29. Mitchell, Hurley, Babcock, and Hellmich (2000). Insuring the Stewardship of Bt Corn: A Carrot versus A Stick. CARD Working Paper 00-WP 243. 2000 AAEA Selected Paper.
  30. Hurley and Elisabeth (2000). Wage Changes in the Pork Industry: How Did Minnesota Workers Fare? *Minnesota Agricultural Economist* 702(Fall):1,5-7.
  31. Hurley, Orazem, and Kliebenstein (2000). Changes in the Structure of Wages in the U.S. Pork Industry. Selected paper: AAEA Conference, Tampa, FL. Available at <http://agecon.lib.umn.edu/>.
  32. Hurley and Olson (2000). Production Decisions with Uncertain Markets: The Case of Bt Corn. Selected paper: AAEA Conference, Tampa, FL. Available at <http://agecon.lib.umn.edu/>.
  33. Hurley, Kliebenstein, Orazem, and Miller. Decade of Employment Data Marks Pork Industry Changes. *National Hog Farmer*. June 15, 2000. pp. E2-E7.
  34. Hurley, Kliebenstein, Orazem, and Miller. Employee Rosters Rise; Wages Climb More Than 50%. *National Hog Farmer*. June 15, 2000. pp. E8-E15.
  35. Hurley, Kliebenstein, Orazem, and Miller. Work Environment, Time Off Lead Job Satisfaction List. *National Hog Farmer*. June 15, 2000. pp. E16-E22.
  36. Hurley, Kliebenstein, Orazem, and Miller. Looking for a Job, Finding the Right Employee. *National Hog Farmer*. June 15, 2000. pp. E24-E29.
  37. Durgan, Hicks, Hurley, Naeve, Schafer, Schwartz, and Wilcke (1999). A Consideration of Conventional and Genetically Modified Varieties. *Minnesota Variety Trials*. MP 102 2000. pp. 5-7.
  38. Pautsch, Babcock, Hurley and Campbell (1999). Relative Efficiency Of Sequestering Carbon In Agricultural Soils Through Second Best Market-Based Instruments. Selected paper: AAEA Conference, Nashville, TN. Available at <http://agecon.lib.umn.edu/>.
  39. Higgins and Hurley (1999). Panel 1: Refuge Design and Deployment. *EPA/USDA Workshop on Bt Crop Resistance Management* (P.A. Stewart, ed.). pp. 12-16.
  40. Hurley (1999). Panel 4: Compliance Issues. *EPA/USDA Workshop on Bt Crop Resistance Management* (P.A. Stewart, ed.). pp. 61-63.
  41. Hurley, Secchi, and Hellmich (1999). Managing the Risk of European Corn Borer Resistance to Bt Corn: An Assessment of Controversial Refuge Recommendations. Selected paper: AAEA Conference, Nashville. Available at <http://agecon.lib.umn.edu/>.
  42. Hurley, Secchi, Babcock, and Hellmich (1999). Managing the Risk of European Corn Borer Resistance to Transgenic Corn: An Assessment of Refuge Recommendations. CARD Staff Report 99-SR 88.
  43. Babcock, Hurley, Wu, and Mitchell (1998). The Environmental Effects of Freedom to Farm. Selected paper: AAEA Conference, Salt Lake City, UT. Available at <http://agecon.lib.umn.edu/>.

44. Hurley, Babcock, and Hellmich (1998). Biotechnology and Pest Resistance: An Economic Assessment of Refuges. Selected paper: AAEA Conference, Salt Lake City, UT. Available at <http://agecon.lib.umn.edu/>.
45. Wang, Babcock, and Hurley (1998). Crop Nutrient Needs Potentially Supplied by Livestock Manure in Iowa, Illinois, and Indiana. CARD Working Paper 98-WP 194.
46. Babcock, Campbell, Gassman, Hurley, Mitchell, Otake, Siemers, and Wu (1998). RAPS 1997: Agricultural and Environmental Outlook. Center for Agriculture and Rural Development, Iowa State University, Ames IA.
47. Hurley, Kliebenstein, and Orazem (1997). Structure of Wages and Benefits in the U.S. Pork Industry. Selected paper: AAEA Conference, Toronto, Canada.
48. Hurley, Otto, and Holtkamp (1997). Valuation of Water Quality in Livestock Regions: An Application to Rural Watersheds in Iowa. Selected paper: AAEA Conference, Toronto, Canada.
49. Hurley, Kliebenstein, and Orazem (1997). An Analysis of Occupational Health in Pork Production. Selected paper: AAEA Conference, Toronto, Canada.
50. Hurley, Babcock, and Hellmich (1997). Biotechnology and Pest Resistance: An Economic Assessment of Refuges. CARD Working Paper 97-WP 183.
51. Hurley, Orazem, Kliebenstein, and Miller (1996). Employee Management: Final Report. *National Hog Farmer* pp. 19-31.
52. Hurley, Orazem, Kliebenstein, and Miller (December 1996). Employee Management: Results of a Nationwide Survey of Pork Producers and Employees. *National Hog Farmer Special Report No. 2*.
53. Hurley, Orazem, Kliebenstein, and Miller (1997). Salary Levels in the Swine Industry. *1996 Swine Research Report*. Iowa State University, University Extension. pp. 143-145.
54. Hurley, Orazem, Kliebenstein, and Miller (1997). Employee Benefit Packages in the Swine Industry. *1996 Swine Research Report*, Iowa State University, University Extension. pp. 146-147.
55. Hurley, Orazem, and Kliebenstein (1997). Worker Health Issues in Pork Production. *1996 Swine Research Report*. Iowa State University, University Extension. pp. 148-153.
56. Hurley, Babcock, Reynolds, and Loesch (1996). Waterfowl Populations and the Conservation Reserve Program in the Prairie Pothole Region of North and South Dakota. CARD Working Paper 96-WP 165.
57. Hurley, Chaudhary, Kliebenstein, and Westercamp (1996). Cost of Respiratory Disease. *1995 Swine Research Report*. Iowa State University, University Extension. pp. 152-153.
58. Hurley, Chaudhary, Kliebenstein, and Westercamp (1996). Cost of Pig Scours. *1995 Swine Research Report*. Iowa State University, University Extension. pp. 154-156.
59. Hurley (1995). The Fisherman, The Factory, and The SLAPP. *AERE Newsletter* 15(2):16-20.

#### ***Research Papers and Reports***

1. Craven and Hurley (2006). Proposed Rates For Adjusted Gross Revenue (Agr)-Lite Crop Insurance In Minnesota.
2. Hurley and Craven (2006). Proposed Risk Regions For Adjusted Gross Revenue (Agr)-Lite Crop Insurance In Minnesota.
3. Hurley (2004). What can economists contribute to a strategic ecological monitoring program for plant-incorporated-protectants? Background paper for Symposium on Strategic Monitoring for Ecological Impacts from Crops with Plant-Incorporated-Protectants.

4. Mitchell, Hurley, and Rice (October 2003). Is Bt Corn Really a Drag? Bt Corn Yield Drag and Yield Variance.
5. Hurley and Shogren (April 2001). Rationality in an Asymmetric Information Gaming Experiment.
6. Hurley (February 2000). A Bioeconomic Evaluation of the Gradual Introduction of Multiple Toxin Bt Corn.
7. Hurley and Mitchell (December 1999). Economic Refuge Recommendations for Multiple Toxin Bt Corn and An Assessment of Insurance Incentives for the Voluntary Adoption of Refuge Recommendations.
8. Hurley (1999). To GMO or not To GMO? Production Considerations for the First Year of a New Millennium.
9. Hurley, Secchi, and Hellmich (November 1999). A Bayesian Method for Using Field-Based Survival Data to Measure Insect Resistance to *Bacillus Thuringiensis*.

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### Grants

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#### *External (PI or Co-PI)*

1. Kurle, Ostlie, Hurley, and Homans (2008-09). Cost-effective strategies to detect and manage soybean rust in the United States. USDA/CSREES RMA. Award: \$76,407.
2. Homans, Polasky, Vennette, Hurley (2006-08). Spatial Decision-Making Tools for Efficient Allocation Strategies in Invasive Species Management. USDA/ERS Cooperative Agreement. Award: \$106,000.
3. Hurley (2004-07). Contributions to a Framework for Managing Insect Resistance to Transgenic Crops. USDA/ARS Cooperative Agreement. Award: \$15,000.
4. Robert, Rolph, and Hurley (2003-06). A Novel Nationwide Risk Management Education Initiative: Merging Precision Agriculture and ISO 9000/14000 Management Systems. USDA/CSREES. Award: \$145,000.
5. Hurley, Mitchell, and Hutchison (2003-06). Reducing Risk to Accelerate Adoption of Sweet Corn IPM. North Central Integrated Pest Management Competitive Grants Program. Award: \$67,312.
6. Andow, Hurley, Buttel, and Ives (2001-06). Dynamic Resistance Management for Transgenic Insecticidal Crops. USDA/IFAFS. Award: \$890,000.
7. Hurley (2001). Managing Insect Resistance to Bt. Monsanto Company. Award: \$15,000.
8. Hurley and Mitchell (2000). Economic Refuge Recommendations with Noncompliance and An Assessment of Insurance Incentives for the Voluntary Adoption of Refuge Recommendations. Aventis. Award: \$20,000.
9. Hurley and Ostlie (2000). An Economic Evaluation of Producer Incentives to Adopt Transgenic Corn Root Worm Protection. Monsanto. Award: \$15,000.
10. Kliebenstein, Hurley, and Orazem (1999-2000). Labor Rates and Fringe Benefits in the U.S. Swine Production Industry: A Comparison by Operation Size, Type and Region; An Analysis of the 1999-2000 Labor Survey. National Pork Producers Council. Award: \$33,725.
11. Hurley, Mitchell, Babcock, and Hellmich (1998-99). Economic Refuge Recommendations for Multiple Toxin Bt Corn and An Assessment of Insurance Incentives for the Voluntary Adoption of Refuge Recommendations. AgrEvo USA. Award: \$18,000.

12. Hurley, Babcock, and Hellmich (1998-99). An Economic Evaluation of Refuge for Resistance Management in Bt Corn. Monsanto Company. Award: \$41,000.
13. Kliebenstein, Orazem, and Hurley (1996). Labor Rates and Fringe Benefits in the U.S. Swine Production Industry: Comparison by Operation Size, Type, and Region. National Pork Producers Council. Award: \$17,000.
14. Kliebenstein, Orazem, and Hurley (1995 – 96). Economic Value of Improvements in Environmental, Health, and Safety in Pork Production. National Pork Producers Council. Award: \$9,214.

***Internal (PI or Co-PI)***

1. Hurley (2006). International Travel Grant. Office of International Programs. Award: \$650.
2. Hurley (2001). International Travel Grant. Office of International Programs. Award: \$500.
3. Hurley (2001). International Travel Grant. Center International Food and Agricultural Policy. Award: \$1,200.
4. Sands, Wiersma, Fore, Kandel, and Hurley (2000-02). Reducing Crop Losses from Excess Water in Northwest Minnesota with Subsurface (Tile) Drainage. Minnesota Agricultural Experiment Station, Rapid Agricultural Response Fund. Award: \$160,000.
5. Hurley (2000). An Analysis of the Adoption and Use of Bt Plant-Pesticides in Minnesota. University of Minnesota, Grant-in-Aid of Research, Artistry and Scholarship. Award: \$18,500.

***Senior Personnel***

1. Invasive Species & Genotypes IGERT (PIs: Newman, Andow, Galatowitsch, Kapuscinski, & Shaw). National Science Foundation. 2007-2012.
2. NIRT: Evaluating Oversight Mechanisms for Active Nanostructures and Nanosystems: Learning from Past Technologies in a Societal Context (PIs: Wolf, Kokkoli, Kuzma, Paradise, & Ramachandran). National Science Foundation. 2006-2010.

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**Professional Activity**

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***Invited Presentations***

1. Evaluating the Pecuniary and Non-Pecuniary Benefits of Roundup Ready Corn, Soybeans and Cotton (with Paul Mitchell and George Frisvold). Monsanto, St. Louis, MO, November 10, 2008.
2. Evaluating the Pecuniary and Non-Pecuniary Benefits of Roundup Ready Corn, Soybeans and Cotton (with Paul Mitchell and George Frisvold). Monsanto, St. Louis, MO, March 19, 2008.
3. Understanding Risky Behavior: Can economists respond to the Manski critique? University of Minnesota, Morris, MN, November 7, 2007.
4. Refuge Requirements and Enforcement. Biotechnology Workshop. IAAE Conference, Gold Coast, Australia, August 21, 2006.
5. Economists Are Scientists Too: What Economists Can Contribute To Science Based Policy. Augsburg College Mathematics Colloquium Series, Minneapolis, MN, February 8, 2006.
6. Estimating The Value of Precision Agriculture Using Experimental Field Data: Its More Than Just Space. Organized Symposium: AAEE Conference, Providence, RI, July 25, 2005.
7. Human Resource Management Trends In Pork Production (with James Kliebenstein & Steve May). 17<sup>th</sup> World Pork Expo, Des Moines, IA, June 10, 2005.

8. IRM Compliance Costs. Monsanto's 2005 CRW IRM Data Review, Chicago, IL, April 11, 2005.
9. Math & Statistics: What Makes Economics the King of the Social Sciences? Augsburg College Mathematics Colloquium Series, Minneapolis, MN, February 9, 2005.
10. Bt Corn Adoption & IRM Compliance. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, Beltsville, MD, January 25, 2005.
11. What can economists contribute to a strategic ecological monitoring program for plant-incorporated-protectants? Symposium on Strategic Monitoring for Ecological Impacts from Crops with Plant-Incorporated-Protectants. Arlington, VA, August 5, 2004.
12. Preparing & Submitting Journal Articles: Perspectives From A Recently Tenured Professor. Organized Symposium: AAEA Conference, Denver, CO, August 2, 2004.
13. Trade & Regulation Of Genetically Modified Crops. Forum: Environmental, Business & Economic Issues of Genetically Modified Food: An Introduction & Discussion of the Topic of Genetically Modified Foods. Augsburg College, April 1, 2004.
14. Use of GM Corn and Soybean in Minnesota: Perspectives From a 2002 Farm Survey. Organized Symposium: AAEA Conference, Montreal, Canada, July 30, 2003.
15. Bt Resistance Management: Experiences From The U.S. Frontis Workshop: Environmental Costs and Benefits of Transgenic Crops in Europe, Wageningen, The Netherlands, June 2, 2003.
16. Research Update: Dynamic Resistance Management for Transgenic Insecticidal Crops. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, Kansas City, MO, January 29, 2003.
17. Determining The Economy Of Precision Agriculture: Methodological Prerequisites and Results. Precision Agriculture Conference, Bonn, Germany, March 17, 2002.
18. IRM Compliance, Indianapolis, IN, January 29, 2002.
19. A Comparison of IRM Benefits for Single and Double Toxin Bt Corn, Indianapolis, IN, January 29, 2002.
20. Economic and Compliance Issues. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, East Lansing, MI, January 28, 2001.
21. An Economic Analysis of European Corn Borer Bt Corn. Monsanto/YieldGard Academic Data Review, St. Louis, MO, October 11, 2000.
22. An Analysis of the Adoption and Use of Bt Plant Pesticides. Monsanto/MaxGard Academic Data Review, St. Louis, MO, October 10, 2000.
23. Current Trends in Employee Relations and Management. *P.O.R.K. Academy*. Sponsored by the National Pork Board and Pfiser Animal Health. Indianapolis, IN, June 7, 2000.
24. Managing the Risk of European Corn Borer Resistance to Bt Corn. *Biotechnology, Environmental Policy, and Agriculture: A workshop on the management of the impacts of biotechnologies*. Sponsored by the European Science Foundation and the UK Department of International Development. Hosted by the International Plant Genetic Resources Institute. Rome, Italy, May 30, 2000.
25. Agricultural Biotechnology: Are we ready for a new era in food, health, and the environment? *Genetically Modified Food: Issues and Opportunities*. MNBIO. Minneapolis, MN, April 11, 2000.

26. An Economic Evaluation of Refuge for Resistance Management in Bt Corn. Monsanto/YieldGard Academic Data Review, St. Louis, MO, October 19, 1999.
27. Managing the Risk of European Corn Borer (Lepidoptera: Pyralidae) Resistance to Transgenic Corn. Invited Presentation. The 32nd Annual Meeting of the Society for Invertebrate Pathology, Riverside, CA, August 22-27, 1999.
28. Panel 4: Compliance Issues, EPA/USDA Workshop on Bt Crop Resistance Management, Rosemont, IL, June 18, 1999.
29. An Experimental Evaluation of an Environmental Conflict. 3rd Toulouse Conference on Environment and Resource Economics, Toulouse, June 16, 1999.
30. Refuge Recommendations for Bt Corn: Why is consensus so hard? Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, Minneapolis, MN, January 26, 1999.
31. An Economic Assessment of Resistance Management: Bt Corn and the European Corn Borer. Informal Conference Session, Entomological Society of America Annual Meeting, Las Vegas, NV, November 10, 1998.
32. Economic Assessment of Resistance Management: Bt Corn with Multiple Toxins. Monsanto/YieldGard Academic Data Review, St. Louis, MO, October 27, 1998.
33. An Economic Assessment of Refuge under Uncertainty: Controlling European Corn Borer Resistance to Bt Corn. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, Kansas City, MO, September 24, 1998.
34. Carbon Sequestration and Agriculture: Recent Trends and Future Opportunities. Workshop on Impacts of Global Climate Change and Mitigation Strategies on US Agriculture, Washington, D.C., May 28, 1998.
35. Biotechnology and Pest Resistance: An Economic Assessment of Refuges. Entomological Society of America, North Central Branch Annual Meeting, Sioux Falls, SD, March 10, 1998
36. Biotechnology and Pest Resistance: An Economic Assessment of Refuges. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, Omaha, NE, January 27, 1998.
37. Employee Management in Pork Production: A Summary of the 1995 NPPC Employer-Employee Survey. Swine Extension Educator's Conference. Des Moines, IA. September 4-5, 1996.
38. Economic Impact of Health and Safety Programs on Pork Production and Human Health. Reported to the Worker Health and Safety Task Force. Des Moines, IA. December 13, 1995.

#### ***Selected Presentations***

1. Adoption, Residual Herbicide Use And Grower Values For Roundup Ready® Cotton. Beltwide Cotton Conference, San Antonio, TX, January 7, 2009.
2. Testing for Complementarity and Substitutability among Multiple Technologies: The Case of U.S. Hog Farms. Selected paper: AAEA Conference, Portland, OR, July 31, 2007.
3. Temporal And Spatial Variability Of Corn Response To Fertilizer: What Is The Potential For Management? Eighth International Conference on Precision Agriculture & Other Precision Resources Management. Minneapolis, MN. July 24, 2006.
4. Farmer Demand for Corn Rootworm Bt Corn: Do Insect Resistance Management Guidelines Really Matter? NC-1003 Conference: Economics of Regulation of Agricultural Biotechnologies. Arlington VA, March 12, 2005.

5. Estimating Site-Specific Nitrogen Crop Response Functions: A Conceptual Framework and Geostatistical Model. Selected paper: AAEA Conference, Montreal, Canada, July 29, 2003.
6. A Test Of Within Field Variation For Corn Response To Nitrogen In Central Minnesota. 6<sup>th</sup> International Conference on Precision Agriculture and Other Precision Resource Management, Minneapolis, MN, July 15, 2002.
7. Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. Heartland Environmental and Resource Economics Workshop, Ames, IA, September 24, 2001.
8. Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. Selected paper: AAEA Conference, Chicago, IL, August 7, 2001.
9. The Value of Information for Variable Rate Nitrogen Applications: A Comparison of Soil Test, Topographical, and Remote Sensing Information. Selected paper: AAEA Conference, Chicago, IL, August 6, 2001.
10. Managing European Corn Borer Resistance to Bt Corn with Dynamic Refuges. International Consortium on Agricultural Biotechnology Research; 5<sup>th</sup> International Conference on Biotechnology, Science and Modern Agriculture: a New Industry at the Dawn of a New Century; Ravello, Italy, June 16, 2001.
11. Behavior in Environmental Conflicts with Asymmetric Information: Some Experimental Evidence. Heartland Environmental and Resource Economics Workshop, Ames, IA, September 18, 2000.
12. Changes in the Structure of Wages in the U.S. Pork Industry. Selected paper: AAEA Conference, Tampa, FL, July 31, 2000.
13. Production Decisions with Uncertain Markets: The Case of Bt Corn. Selected paper: AAEA Conference, Tampa, FL, August 2, 2000.
14. Assessing the Risk of Insect Resistance to Transgenic Corn: A Bayesian Approach Using Field Level Monitoring Data. Heartland Environmental and Resource Economics Workshop, Ames, IA, September 21, 1999.
15. Managing the Risk of European Corn Borer Resistance to Bt Corn: An Assessment of Controversial Refuge Recommendations. Selected paper: AAEA Conference, Nashville, TN, August 8-11, 1999.
16. An Experimental Investigation of Asymmetric Information. North American Meetings of the Economic Science Association, Tucson, AZ, October 17, 1998.
17. The Environmental Effects of Freedom to Farm. Selected paper: AAEA Conference, Salt Lake City, UT, August 3, 1998.
18. Biotechnology and Pest Resistance: An Economic Assessment of Refuges. Selected paper: AAEA Conference, Salt Lake City, UT, August 3, 1998.
19. Structure of Wages and Benefits in the U.S. Pork Industry. Selected paper: AAEA Conference, Toronto, Canada, July 29, 1997.
20. Valuation of Water Quality in Livestock Regions: An Application to Rural Watersheds in Iowa. Selected paper: AAEA Conference, Toronto, Canada, July 29, 1997.
21. An Analysis of Occupational Health in Pork Production. Selected paper: AAEA Conference, Toronto, Canada, July 28, 1997.

#### ***Extension Presentations***

1. Weed Best Management Practices & the Value of Roundup Ready Weed Management in Soybean. *Minnesota Soybean Growers Board Of Directors Meeting*. St. Paul, MN, January 29, 2009.

2. Valuing the Soybean Rust Monitoring Network. *Minnesota Soybean Growers Board Of Directors Meeting*. St. Paul, MN, January 29, 2009.
3. Anything New In Precision Agriculture? Variable Rate Fertilizer & ISO 9001 Training Program. *AFE Staff & Program Development Conference*. Arden Hills, MN, April 14, 2003 (attendance = 15).
4. Nutrient BMP Insurance. *AFE Staff & Program Development Conference*. Arden Hills, MN, April 2, 2003 (attendance = 12).
5. Estimating The Economic Feasibility Of Tile Drainage. *Farmland Tile Drainage Design-Water Management Workshop*, Crookston, MN, February 26, 2002 (attendance = 72).
6. Estimating The Economic Feasibility Of Tile Drainage. *Farmland Tile Drainage Design-Water Management Workshop*, North Mankato, MN, March 5, 2002 (attendance = 75).
7. What Is The Value Of Bt Corn? Yield Protection and Risk. 21<sup>st</sup> Annual Crop Pest Management Short Course, St. Paul, MN, November 19, 2001 (attendance = 131)  
[http://www.agro.agri.umn.edu/21stcroppestmanage/21st\\_annual\\_crop\\_pest\\_management.htm](http://www.agro.agri.umn.edu/21stcroppestmanage/21st_annual_crop_pest_management.htm)
8. Things to Know Before Planting GMOs. *Agricultural, Food, and Environment Capacity Area, Staff Development Conference*, St. Paul, MN, May 15, 2001 (attendance ≈ 10)  
<http://www.extension.umn.edu/capacity/afe/components/powerpointsconference.htm>
9. Tile Drainage Economic Feasibility. *Farmland Tile Drainage Design-Water Management Workshop*, Marshall, MN, March 5, 2001 (attendance ≈ 80).
10. Tile Drainage Economic Feasibility. *Farmland Tile Drainage Design-Water Management Workshop*, Moorhead, MN, March 7, 2001 (attendance ≈ 80).
11. Things to Know About GM Crops. *University of Minnesota Crops Research Update*, Cosmos, MN, January, 25 2001 (attendance ≈ 60).
12. Reducing Crop Losses from Excess Water in Northwest Minnesota with Subsurface (Tile) Drainage: Economic Evaluation. *Ag Drainage Field Days*, Crookston, MN, September 27, 2000 (attendance ≈ 25).
13. Reducing Crop Losses from Excess Water in Northwest Minnesota with Subsurface (Tile) Drainage: Economic Evaluation. *Ag Drainage Field Days*, Brooks, MN, September 28, 2000 (attendance ≈ 40).
14. Agricultural Biotechnology: Understanding Your Options. *Corn/Soybean Days 2000*. Cambridge, MN, March 8, 2000 (attendance ≈ 45).
15. Agricultural Biotechnology: Understanding Your Options. *Grower Meeting conducted by Progressive Ag Center*. Racine, MN, February 24, 2000 (attendance ≈ 40);
16. Agricultural Biotechnology: Are we ready for a new era in food, health, and the environment? *Grower Meeting*. Madelia, MN, February 22, 2000 (attendance ≈ 15).
17. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *Crop Systems Staff Development Training*, Roseville, MN, December 1, 1999. (attendance ≈ 15).
18. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *Rural Response/FINPACK Staff Development*, St. Paul, MN, December 14, 1999 (attendance ≈ 25).
19. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *Winter Crop Days*, Kasson, MN, January 19, 2000 (attendance ≈ 100).
20. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *Winter Crop Days*, Rushford, MN, January 19, 2000 (attendance ≈ 20),

21. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *Winter Crop Days*, North Mankato, MN, January 20, 2000 (attendance ≈ 75).
22. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *2000 Soybean Production Conference*, Crookston, MN, January 25, 2000 (attendance ≈ 15).
23. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *2000 Soybean Production Conference*, Moorhead, MN, January 26, 2000 (attendance ≈ 8).
24. To GMO or not To GMO? Production Considerations for the First Year of a New Millennium. *2000 Soybean Production Conference*, Willmar, MN, January 27, 2000 (attendance ≈ 35).
25. An Economic Assessment of Resistance Management: The Case of Bt Corn. *19<sup>th</sup> Annual Crop Pest Management Short Course*, St. Paul, MN, November 22, 1999. (2 sessions: attendance ≈ 55).

#### ***Applied Economics Department Seminars***

1. Understanding Risky Production, Insurance, and Self-Protection: A Classical Approach. March 24, 2008.
2. Market Insurance, Self-Insurance, and Self-Protection: A Slutskyesque Approach. January 20, 2006.
3. Insect Resistance Management: What Is a Farmer's Cost? April 4, 2005.
4. Estimating The Potential Value Of Variable Rate Nitrogen Applications: A Comparison Of Soil Test, Topographical, And Remote Sensed Information. October 1, 2004.
5. Economics When Location Matters II: The Case of Precision Agriculture. February 27, 2004.
6. Risk and the Value of Bt Corn. September 19, 2003.
7. A Note on Capturing Beliefs with Predictions. April 19, 2002.
8. What is the value of Bt corn. October 5, 2001.
9. Changes in the Structure of Wages in the U.S. Pork Industry: 1990-95. February 25, 2000.

#### ***News Releases and Interviews***

1. *Swinecast*. Ned Arthur. November 18, 2005.
2. *Swinecast*. Ned Arthur. August 19, 2005.
3. *Linder Farm Network*. Linda Brekke. June 7, 2002.
4. *Minnesota Farm Network*. Tom Rathman. January, 24 2002.
5. Reconsider the Value of Bt Corn Each Year, Economist Advises. *News & Information*. University of Minnesota Extension Service (J. Sperbeck, ed.). January 23, 2002.
6. *Star Tribune*. Sharon Schmickle. November 20, 2001.
7. *Soybean Digest*. Stephanie Larson. May 3, 2001.
8. *AgriNews*. Janet Kubat, Staff Writer. October 26, 2000.
9. *Minnesota Public Radio*. Andrew Haige. April 24, 2000.
10. *Star Tribune*. Sharon Schmickle. February 28, 2000.
11. *Farm Progress*. Willie Vogt, Technology Editor. January 21, 2000.
12. *AgriNews*. Janet Kubat, Staff Writer. January 19, 2000.
13. Corn, soybean market access may be important seed choice factor. *News & Information*. University of Minnesota Extension Service (J. Kurtz, ed.). January 10, 2000.

14. Economist: Substantial price advantage for non-GM corn unlikely in 2000. *News & Information*. University of Minnesota Extension Service (J. Kurtz, ed.). January 10, 2000.
15. If past patterns continue, big non-GM soybean price premium is unlikely in 2000. *News & Information*. University of Minnesota Extension Service (J. Kurtz, ed.). January 10, 2000.

### *Service and Development*

#### *Committee Chairman*

- AAEA Outstanding Masters Thesis Award Committee, 2007 - 2008.
- University of Minnesota, Department of Applied Economics Graduate Committee, 2006-Present.
- University of Minnesota, Department of Applied Economics, Seminar Committee, 2003.
- Northeastern Agricultural and Resource Economics Association Masters Thesis Award Committee, 2001.

#### *Committee Member*

- AAEA Outstanding AJAE Article Award Committee, 2007 - 2008.
- University of Minnesota, Applied Economics, Department Head Search Committee, 2008.
- University of Minnesota, Applied Economics CSREES Review Committee, 2007 – Present.
- University of Minnesota, College of Food, Agriculture, & Natural Resource Sciences Technology Committee, 2007 – Present.
- University of Minnesota, Invasive Species & Genotypes IGERT Fellowship Awards Committee, 2007.
- University of Minnesota, Agronomy & Plant Genetics, Applied Economics, Dairy Science, and Soil, Water, & Climate, Hueg-Harrison Fellowship Awards Committee, 2007.
- University of Minnesota, Social Sciences Policy & Review Council: Course Proposals Committee, 2007.
- AAEA Outstanding Masters Thesis Award Committee, 2007 - 2008.
- University of Minnesota, Social Sciences Policy Review Council, 2006-Present.
- FIFRA Scientific Advisory Panel: Analysis of a Natural Refuge of Non-Cotton Hosts for Monsanto's Bollgard II Cotton. Arlington, VA, June 13-16, 2006.
- University of Minnesota, Applied Economics, Search Committee for Applied Microeconomics and Econometrics, 2005.
- University of Minnesota, College of Agricultural, Food, and Environmental Science, Rapid Agricultural Response Fund Review Panel, 2005, 2007.
- EPA FIFRA Scientific Advisory Panel ad hoc, 2000-Present.
- University of Minnesota, Applied Economics Program Priorities Committee, 2004-2007.
- University of Minnesota, Applied Economics Graduate Committee, 2000-Present.
- University of Minnesota, Economics Minor Prelim Committee, 2004.
- University of Minnesota, Applied Economics Ph.D. Production Economics Field Exam Committee, 2000 - 2006.
- University of Minnesota, Applied Economics Promotion & Tenure Committee, 2004-2006.
- University of Minnesota, Applied Economics, Seminar Committee, 1999 – 2000, 2002-2003.
- Center for International Food and Agricultural Policy's Graduate Student Paper Awards Committee, 2003.
- University of Minnesota, Applied Economics Outreach Committee, 2001-2002.

- Executive Planning Committee for the 21<sup>st</sup> Annual Crop Pest Management Short Course, 2001.
- Biotechnology/Food Safety Planning Team for Fall Staff Development, 2001.
- FIFRA Scientific Advisory Panel: Risk & Benefits Assessment for Bt Plant-Pesticides: Benefits and Economic Analysis. Arlington, VA, October 20, 2000.
- FIFRA Scientific Advisory Panel: Risk & Benefits Assessment for Bt Plant-Pesticides: Insect Resistance Management. Arlington, VA, October 18, 2000.
- University of Minnesota, College of Agricultural, Food, and Environmental Sciences, Agbiotech Working Group, 1999 - 2000.
- Northeastern Agricultural and Resource Economics Association Masters Thesis Award Committee, 1999 - 2001.
- University of Minnesota, Applied Economics Masters Thesis Award Selection Committee, 1999.
- Computing and Data Processing Services Committee, 1993 - 1995.
- Economics Graduate Student Association, 1990-1995.

#### *Invited Participant*

- Economic Research Service & Farm Foundation: Program of Research on the Economics of Invasive Species Management. Washington D.C., October 20-21, 2005.
- U.S. EPA Symposium: Strategic Monitoring for Ecological Impacts from Crops with Plant-Incorporated-Protectants. Arlington, VA, August 3-5, 2004.
- U.S. EPA Resistance Management Modeling Workshop, Cincinnati, Ohio, May 11-12, 2004.
- Frontis Workshop: Environmental Costs and Benefits of Transgenic Crops in Europe. Wageningen, The Netherlands, June 1-4, 2003.
- Environmental Protection Agency Workshop on Bt Corn Insect Resistance Management Framework Development. *The Remedial Action Plans & Development Workshops*, Arlington, VA, November 5-6, 2001.
- Environmental Protection Agency Workshop on Bt Corn Insect Resistance Management Framework Development: *The Insect Resistance Management Strategies Workshop*, Arlington, VA, September 10-11, 2001.
- Environmental Protection Agency Workshop on Bt Corn Insect Resistance Management Framework Development: *Pest Simulation Model Design and Validation*, Washington, DC, June 4-5, 2001.
- United States Department of Agriculture/Agricultural Research Service's High Spray Area Resistance Management Workshop, Ames, IA, May 22-23, 2001.
- Resources for the Future Workshop on the Economics of Resistance Management, Warrenton, VA, April 4-6, 2001.

#### *Moderator/Facilitator*

- Selected Paper Session: Agricultural Production Analyses. AAEA Conference, Portland, OR, July 31, 2007.
- Profitability Session. Eighth International Conference on Precision Agriculture & Other Precision Resources Management. Minneapolis, MN. July 25, 2006.
- Fertilizer Management Discussion Group. *Nutrient Management Workshop*, St. Paul, MN, January 18, 2003.

- Extension Public Value: Showcasing Featured Programs (Business Retention & Expansion Strategies and 4-H Clubs). *2002 Program Summit*, St. Cloud, MN, November, 22, 2002.
- Biotechnology: Ecology, Food Science, and Policy. *Agricultural, Food, and Environment Capacity Area, Staff Development Conference*, St. Paul, MN, May 16, 2001.
- Selected Paper Session: Controlling Point/Non-Point Pollution with Marketable Permits. AAEA Annual Meeting, Tampa, FL, August 1, 2000.
- Biotechnology Management Analysis-Empirical and Natural Science. *Biotechnology, Environmental Policy, and Agriculture: A workshop on the management of the impacts of biotechnologies*. Sponsored by the European Science Foundation and the UK Department of International Development. Hosted by the International Plant Genetic Resources Institute. Rome, Italy, May 30, 2000.

#### *Discussant/Commenter*

- Spatio-Temporal Models of Asian Citrus Canker Risk: Implications for Indemnification Funds and Insurance Contracts. by B. Goodwin & N. Piggot. Program of Research on the Economics of Invasive Species Management. Washington D.C., October 20, 2005.
- Jointly-Determined Ecological Thresholds and Economic Tradeoffs in Wildlife Disease Management. by R. Horan. Program of Research on the Economics of Invasive Species Management. Washington D.C., October 20, 2005.
- Regulation, Trade, and Market Power: Agricultural Chemical Markets and Incentives for Biotechnology. by V. Smith. NC-1003 Conference: Economics of Regulation of Agricultural Biotechnologies. Arlington VA, March 11, 2005.
- Environmental Fate and Impact Considerations Related to the Use of Transgenic Crops. by G.A. Kleter and H.A. Kuiper. Frontis Workshop: Environmental Costs and Benefits of Transgenic Crops in Europe, Wageningen, The Netherlands, June 2, 2003.
- Cognition and Behavior in Normal Form Games. North American Meetings of the Economic Science Association, Tucson, AZ, October 17, 1998.
- Selected Paper Session: Pesticides and Environmental Quality. AAEA Annual Meeting, Salt Lake City, UT, August 4, 1998.

#### *Editorial Boards/Councils*

Agronomy Journal, 2008 - Present

American Journal of Agricultural Economics, 2008 – Present.

Journal of Agricultural & Resource Economics, 2006 – Present.

Environmental Biosafety Research, 2005 – Present.

#### *Reviewer/Referee (108)*

1. AgBioforum (14)
2. Agricultural Economics (4)
3. Agricultural and Resource Economics Review
4. Agronomy Journal (6)
5. American Economic Review
6. American Journal of Agricultural Economics (14)
7. Agricultural and Resource Economics Review
8. European Economic Review
9. Canadian Journal of Agricultural Economics (4)

10. Computers And Electronics In Agriculture
11. Crop Protection (2)
12. Ecological Economics
13. Environment and Development Economics
14. Environmental Biosafety Research (3)
15. Environmental Management
16. Environmental and Resource Economics (3)
17. European Journal of Political Economy (2)
18. European Review of Agricultural Economics
19. Journal of Agribusiness
20. Journal of Agricultural & Applied Economics (3)
21. Journal of Agricultural & Resource Economics (8)
22. Journal of Economics & Business
23. Journal of Economic Entomology (3)
24. Journal of Environmental Economics and Management (11)
25. Journal of Environmental Management
26. Manufacturing & Service Operations Management
27. Marketing Science
28. Plant and Soil
29. Precision Agriculture (5)
30. Public Choice (3)
31. Resource & Energy Economics (2)
32. Review of Agricultural Economics (3)
33. Review of Economic Studies
34. Royal Society: Biology Letters
35. Weed Science
36. Agricultural Experiment Station Project Number MIN-14-040 & MIN-17-065
37. Israel Science Foundation: 2006 Grant Proposal Review for Two-Sided Contests, Ambiguous Political Power, and Segmentation submitted by G.S. Epstein and N. Shmuel.
38. Book Chapter: "Assessing the Value and Economic Risk of IPM" for Cambridge University Press IPM Textbook
39. Book Proposal: *Game Theory and Economic Decisions* by S.R. Chakravarty for Routledge Publishing
40. Book Proposal: *Game Theory and Information: An Introduction to Game Theory (4<sup>th</sup>)* by E. Rasmusen for Blackwell.
41. AAEA selected paper sessions 1998, 2000, 2002, and 2003
42. AAEA selected poster sessions 2000 and 2001
43. European Conference on Precision Agriculture and Precision Livestock Farming selected paper sessions 2005 and 2006.

#### *Other*

- Consultant: International Food Policy Research Institute, Washington, DC, 2009 - 10.
- Topic Leader: Selected Paper Sessions: Productivity Analysis & Emerging Technologies. AAEA Conference, Milwaukee, WI, July 26-28, 2009.
- Consultant: Monsanto, St. Louis, MO, 2007-08.

- Star Faculty Salary Increase (2007).
- Evaluator for University of Minnesota Extension Service: Bret Oelke's request for promotion to Associate Extension Professor
- Special Merit Based Salary Increase (2006).
- Organizer: Testing the Precision Agriculture Hypothesis: Addressing the Challenges Of Data Collection and Analysis, AAEA Conference, Providence RI, July 25, 2005.
- Consultant: National Pork Board, Des Moines, IA, 2004-2005.
- Member of the Western Agricultural Economics Association (2004-Present)
- Member of the American Agricultural Economics Association (1994-Present)
- Informal Collaborator: Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera (1998 - Present).
- Special Merit Based Salary Increase (2002).
- Panelist: Insect Resistance Management Modeling. Meeting of the Regional Research Committee on Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera, East Lansing, MI, January 29, 2001.
- Topic Leader: Selected Paper Sessions: Environmental Economics. AAEA Conference, Chicago, IL, August 5-8, 2001.
- Consultant: Center for Agricultural and Rural Development, Ames, IA, 1998-2000.
- Consultant: AgRisk Management, Ames, IA, 1997-1998.
- Participant: The University of Arizona's Graduate Student Workshop on Experimental Economics, 1995.
- Treasurer: Economics Graduate Student Association, 1992 – 1993.