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## **Curriculum Vita George W. Norton**

### **ADDRESS:**

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### **EDUCATION:**

Ph.D., Agricultural Economics, University of Minnesota, 1979  
M.S., Agricultural Economics, University of Minnesota, 1975  
B.S., Agricultural Economics, Cornell University, 1971

### **PROFESSIONAL EXPERIENCE:**

Professor Emeritus (2020-present), Professor (1991-2021), Associate Professor (1986-91), Assistant Professor (1980-86), Department of Agricultural and Applied Economics, Virginia Polytechnic Institute and State University

Visiting Scientist, Economic Research Service of the U.S. Department of Agriculture, Washington DC, August 1999 – July 2000

Visiting Associate Professor, Department of Agricultural and Applied Economics, Cornell University, September 1987-May 1988

Research Fellow (1988-1991) and Senior Fellow (1991-1994), International Service for National Agricultural Research (ISNAR) (adjunct appointment)

Research Associate, Department of Agricultural and Applied Economics, University of Minnesota, St. Paul, Minnesota, January 1979-August 1980

Consultant to Winrock International, Morrilton, Arkansas, assigned to the Sisseton-Wahpeton Sioux Indian Reservation, Sisseton, South Dakota, April 1977-December 1978

Graduate Research Assistant, Department of Agricultural and Applied Economics, University of Minnesota, St. Paul, Minnesota, January 1974-March 1977

Peace Corps Volunteer, Colombia, July 1971-October 1973

### **LANGUAGE:**

Spanish -	<i>Read</i>	<i>Write</i>	<i>Speak</i>
	Good	Fair	Good

## HONORS AND AWARDS:

International Award of Excellence (IPM Team) The IPM Innovation Lab, group award for IPM Lab presented at the 10th International IPM Symposium, Denver, CO, 2022.

Committee Co-Chair (with Brad Mills) for Santa Rosario de De Jesus, whose M.S. thesis *Social-Economic Benefits of Payment for Environmental Services in Yaque del Norte Watershed, Dominican Republic* received an Agricultural and Applied Economics Association Outstanding M.S. Thesis Award, 2019.

Fellow, Agricultural and Applied Economics Association, 2018.

College of Agriculture and Life Sciences' Outstanding Faculty Service Award, Virginia Tech, 2017.

Publication of Enduring Quality, 2015, from the Agricultural and Applied Economics Association for book co-authored with Julian Alston and Philip Pardey, *Science Under Scarcity: Principles and Practice for Agricultural Research Evaluation and Priority Setting* (Ithaca, New York: Cornell University Press, 1995).

Lifetime Achievement Award, presented at the 8<sup>th</sup> International Integrated Pest Management Symposium, Salt Lake City, UT, 2015.

International Plant Protection Award of Distinction, presented (group award) to the Virginia Tech-led Integrated Pest Management Innovation Laboratory at the XVIII International Plant Protection Congress in Berlin, 2015.

Latin America Section Outstanding Selected Poster, 2015, from the Agricultural and Applied Economics Association, co-authors Vanessa Carrión, Jeff Alwang, and Victor Barrera. RCTs for Agriculture: Exploring the Impact of a Text Message-based Intervention on Adoption of Blackberry ICM in Ecuador.

Quality of Communication Award, Honorable mention, 2012 from the Agricultural and Applied Economics Association for report co-authored with Wallace Huffman and Luther Tweeten, *Investing in a Better Future Through Public Agricultural Research*, CAST Commentary QTA2011-1.

Alumni Award for Excellence in Graduate Academic Advising, Virginia Tech, 2011.

Certificate of Excellence for Educational Materials, Council for Agricultural Science and Technology, 2011

International IPM Excellence Award, group award for IPM CRSP presented at the 6<sup>th</sup> International IPM Symposium, Portland OR, 2009.

Alumni Award for Excellence in International Outreach and Research, Virginia Tech, 2001.

First place, essay competition sponsored by the International Food Policy Research Institute, co-authored essay with Jeffrey Alwang, *Policy for Plenty: Measuring the Benefits of Policy-Oriented Social Science Research*. 1996.

Committee Chair for Jeffrey D. Mullen, whose M.S. thesis *Estimating Environmental and Human Health Benefits of Reducing Pesticide Use Through Integrated Pest Management Programs* received an American Agricultural Economics Association Outstanding M.S. Thesis Award, 1996.

Quality of Research Discovery, Honorable Mention, 1996 from the American Agricultural Economics Association for book co-authored with Julian Alston and Philip Pardey, *Science Under Scarcity: Principles and Practice for Agricultural Research Evaluation and Priority Setting* (Ithaca, New York: Cornell University Press, 1995).

Quality of Communication Award for 1994 from the American Agricultural Economics Association for book co-

authored with Jeffrey Alwang, *Introduction to Economics of Agricultural Development* (New York: McGraw Hill, 1993).

Committee Chair for Richard F. Kazmierczak Jr., whose dissertation *Pesticide Regulatory Actions and the Development of Pest Resistance: A Dynamic Bioeconomic Model* received an American Agricultural Economics Association Outstanding Ph.D. Dissertation Award, 1992.

Committee co-chair (with David Orden) for Frederic C. Bouchet, whose dissertation *An Analysis of the Sources of Growth in French Agriculture, 1960-1984* received an American Agricultural Economics Association Outstanding Ph.D. Dissertation Award, 1988.

Gamma Sigma Delta  
Alpha Zeta  
Sigma Xi

#### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

Agricultural and Applied Economics Association  
American Economic Association  
Southern Agricultural Economics Association  
International Association of Agricultural Economists  
American Association for the Advancement of Science

#### **TEACHING:**

AAEC 3204 International Agricultural Development and Trade (1988 to 2019)  
AAEC 5154 International Agricultural Development and Trade (1981 to 2019)  
AAEC 3000 World Agriculture and Human Welfare (1983-1987)  
AAEC 5174 International Agricultural Development and Trade (on-line) (2005 to 2018)  
AAEC 6600 Research Methods in Production, Cost and Supply (1981-1988)  
AAEC 3034 Farm Management (1981-1983)

#### **ADVISING:**

Advisor or co-advisor to 22 PhD students and 62 MS students.  
Advisor to 40 undergraduate research interns.  
Advisor to Alpha Zeta, agricultural honorary and service fraternity, 2003-2007

#### **PUBLICATIONS:**

##### **a. Journal Articles (\* indicates graduate student)**

Garber, Ben, Jeffrey Alwang, and George W. Norton, Outstanding in the Field: Impacts of Public Small Grains Breeding in Virginia, *Journal of Agricultural and Applied Economics*, (in press).

Mitzy F. Porras, Mitzy,\* Antonino Malacrin, Chanratha An, Kim Hian Seng, Ong Socheath, George Norton, Sally Miller, Cristina Rosa, Edwin G. Rajotte, and Megan E. O'Rourke, An Integrated Pest Management Program Outperforms Conventional Practices for Tomato (*Solanum lycopersicum*) in Cambodia, *Plant Health Progress* (April 2022): 206–211, <https://doi.org/10.1094/PHP-09-21-0123-RS>

Garber, Ben,\* Jeffrey Alwang, George W. Norton, and John Bovay, Beef and the Bottom Line: The Effect of Value-Added Certification on Feeder Cattle Profitability, *Journal of Agricultural and Applied Economics*, 15

(February): 2022: 1-18, doi:10.1017/aac.2021.33.

Myrick, Stephanie,\* Willy Pradel, Canhui Li, Victor Suarez, Guy Hareau, Catherine Larochelle, George W. Norton, and Jeffrey Alwang, The Curious Case of C-88: Impacts of a Potato Variety on Farmers in Yunnan, China, *CABI Agriculture and Bioscience*, (2021) 2:3: 1-15, <https://doi.org/10.1186/s43170-020-00022-7>.

Bernal-Galeano, V.,\* G. Norton, D. Ellis, N. Anglin, G. Hareau, M. Smale, N. Jamora, J. Alwang, and W. Pradel, Andean Potato Diversity Conserved in the International Potato Center Genebank Helps Develop Agriculture in Uganda: The Example of the Variety 'Victoria,' *Food Security*, (2020): 12: 959–973, <https://doi.org/10.1007/s12571-020-01037-8>

Norton, G.W., Lessons from a Career in Agricultural Development and Research Evaluation, *Applied Economics Perspectives and Policy*, (2020): 42 (2): 151-167. doi:10.1002/aep.13052

Norton, G.W. and J. Alwang, Changes in Agricultural Extension and Implications for Farmer Adoption of New Practices, *Applied Economics Perspectives and Policy*, (2020): 42 (1): 8-20.

Venkatramanan, S., S. Wu, B. Shi, M. Marathe, S. Eubank, L.P. Sah, A.P. Giri, L.A. Colavito, K.S. Nitin, V. Sridhar, R. Asokan, R. Munippan, G. Norton, and A. Adiga (2020) Modeling Commodity Flow in the Context of Invasive Species Spread: Study of Tuta Absoluta in Nepal, *Crop Protection* (135) (September): doi: <https://doi.org/10.1016/j.cropro.2019.02.012>.

Rahman, Md. Sadique\* and George W. Norton, Adoption and Impacts of Integrated Pest Management in Bangladesh: Evidence from Smallholder Bitter Gourd Growers, *Horticulturae*, (2019): 32: 1-11.

Alwang, Jeffrey, George Norton, and Catherine Larochelle, Obstacles to Widespread Diffusion of IPM in Developing Countries: Lessons from the Field, *Journal of Integrated Pest Management*, (2019): 10 (1): 1-8. doi: 10.1093/jipm/pmz008.

Rahman, Md. Sadique\* and George W. Norton (2019): Farm-level impacts of eggplant integrated pest management: a stochastic frontier production function approach, *International Journal of Vegetable Science*, 25 (6): 590-600. DOI: 10.1080/19315260.2019.1566188

Rahman, Md. Sadique,\* George W. Norton, and M. Harun-Ar. Rashid, Economic Impacts of Integrated Pest Management on Vegetable Production in Bangladesh, *Crop Protection*, 113 (2018): 6-14.

Lamsal A, Sah LP, Devkota M, Colavito L, Norton G, Rajotte EG, Muniappan R, Occurrence of South American Tomato Leaf Miner (Tuta Absoluta) and Current Management Practices Adopted by Farmers in Lalitpur District, Nepal, *Journal of the Plant Protection Society, Nepal* (Dec 2018)(5): 155-165.

Kadel J, Sah LP, Devkota M, Colavito L, Norton G, Rajotte EG, Muniappan R, Effectiveness of Different Types of Traps for Management of Tuta Absoluta in Nepal, *Journal of the Plant Protection Society, Nepal*, (Dec 2018) (5):166-174.

Guerci, Michael,\* George W. Norton, Malick N. Ba, Ibrahim Baoua, Jeffrey Alwang, Laouali Amadou, Oumou Moumouni, Laouali Karimoune, and Rangaswamy Muniappan, Economic Feasibility of an Augmentative Biological Control Industry in Niger, *Crop Protection*, 110 (2018): 34-40.

Singh A, Sah LP, Dhoj Y, Colavito L, Rajbhandari P, Norton G, Rajotte EG, Muniappan R., Evaluation of Pest Exclusion Nets for Insect Pests of Tomato in Kavre and Lalitpur, *Nepalese Journal of Agricultural Sciences* June 2018(16):135-144.

- Zeng, Di,\* Jeffrey Alwang, George W. Norton, Moti Jaleta, Bekele Shiferaw, and Chilot Yirga, Land Ownership and Technology Adoption Revisited: Improved Maize Varieties in Ethiopia, *Land Use Policy*, 72 (March 2018): 270-279.
- Farris, J. J\*. Alwang, C. Larochelle, and G.W. Norton, Poverty Analysis Using Small Area Estimation: An Application to Conservation Agriculture in Uganda, *Agricultural Economics*, 48 (6) (November 2017): 671-681.
- Zeng, Di,\* Jeffrey Alwang, George W. Norton, Bekele Shiferaw, Moti Jaleta, and Chilot Yirga, Agricultural Technology Adoption and Child Nutrition Enhancement: Improved Maize Varieties in Rural Ethiopia, *Agricultural Economics*, 48 (5) (September 2017): 573-586.
- B. Paudel,\* C. Chan, J. Halbrendt, S.E. Crow, T.J.K. Radovich, and G. Norton, Bioeconomic optimization of conservation agriculture production systems (CAPS) for smallholder tribal farmers in the hill region of Nepal, *Journal of Soil and Water Conservation*, 71 (2) (March-April 2016): 103-117.
- Carrion Yaguana, Vanessa,\* Jeffrey Alwang, George Norton, and Victor Barrera, Does IPM Have Staying Power? Revisiting a Potato-producing Area Years After, *Journal of Agricultural Economics*, 67 (2) (June 2016):308-323.
- Zeng, Di,\* Jeffrey Alwang, George W. Norton, Bekele Shiferaw, Moti Jaleta, and Chilot Yirga, Ex-Post Impacts of Improved Maize Varieties on Poverty in Rural Ethiopia, *Agricultural Economics*, 46 (2015): 515-526.
- Vaiknoras, K\*., G.W. Norton, and J. Alwang, Farmer Preferences for Attributes of Conservation Agriculture in Eastern Uganda. *African Journal of Agricultural and Resource Economics*, June 2015, 158-173.
- Schwartz, H., D. Alston, J. Alwang, M. Bartolo, T. Blunt, C. O. Boateng, B. Bunn, C. S. Cramer, W. Cranshaw, J. Davidson, M. Derie, J. Doran, K. Douce, D. Drost, L. J. du Toit, J. Gao, T. Gourde, B. Gugino, B. Hammon, J. Hardin, M. Hausbeck, G. Jibilian, J. Lafferty, J. LaForest, M. S. McMillan, S. K. Mohan, J. Morrice, B. A. Nault, C. Nischwitz, G. Norton, K. Otto, H. R. Pappu, M. Petersen, R. Sampangi, B. Schroeder, W. Secor, S. Szostek, N. Tisserat, M. E. Uchanski, J. VanKirk, T. Waters, P. Wiriyajitsomboon, and C. Wohleb, Onion ipmPIPE: A Coordinated Effort to Improve the Management of Onion Thrips and Iris Yellow Spot Virus for the U.S. Onion Industry, *Plant Health Review*, 154 (November 2014): 172-183.
- Bonabona-Wabbi, Jackline,\* Daniel B. Taylor, and George W. Norton, Willingness to Pay to Avoid Consumption of Pesticide Residues in Uganda: An Experimental Approach, *African Journal of Agricultural and Resource Economics*, 9 (3): (2014): 226-238.
- Myrick, Stephanie,\* George W. Norton, K.N. Selvaraj, Kiruthika Natarajan, and R. Muniappan, Economic Impact of Classical Biological Control of Papaya Mealybug in India, *Crop Protection*, 56 (February 2014): 82-86.
- Harris, Leah,\* George W. Norton, A.N.M. Rezaul Karim, Jeffrey Alwang, and Daniel B. Taylor, Bridging the Information Gap with Cost-Effective Dissemination Strategies: The Case of Integrated Pest Management in Bangladesh, *Journal of Agricultural and Applied Economics*, 45 (4) (2013): 639-654.
- Dinakaran, D.; Gajendran, G.; Mohankumar, S.; Karthikeyan, G.; Thiruvudainambi, S.; Jonathan, E. I.; Samiyappan, R.; Pfeiffer, D. G.; Rajotte, E. G.; Norton, G. W.; Miller, S.; Muniappan, R., Evaluation of Integrated Pest and Disease Management Module for Shallots in Tamil Nadu, India: a Farmer's Participatory Approach, *Journal of Integrated Pest Management*. 4(2) (June 2013): 1-9
- Sparger, J. Adam,\* George W. Norton, Paul W. Heisey, and Jeffrey Alwang, Is the Share of Maintenance Research Rising in the United States?, *Food Policy*, 38 (February 2013): 126-135.
- Nguema, Abigail,\* George W. Norton, Jeffrey Alwang, Daniel B. Taylor, Victor Barrera, and Michael Bertelsen, Farm Level Impacts of Conservation Agriculture in Ecuador, *Experimental Agriculture*, 49 (1) (January 2013): 134-147.

Sparger, J. Adam,\* Jeffrey Alwang, George W. Norton, Mauricio Rivera, and Donald Breazeale, Designing an IPM Research Strategy to Benefit Poor Producers and Consumers in Honduras, *Journal of Integrated Pest Management*, 2(3)(December 2011):1-9.

Chala, Zelalem\*, George Norton and Jason Grant. "Economic Significance of Selective Export promotion for Poverty Reduction and Inter-Industry Growth of Ethiopia: Policy Analysis Based on a case Study of Cut-flower and Coffee Industries", *Ethiopian Journal of Business and Economics*, 2(1) (2011): 34-59.

Nguema, Abigail\*, George W. Norton, Martin Fregene, Richard Sayre, and Mark Manary, Expected economic benefits of meeting nutritional needs through bio-fortified cassava in Nigeria and Kenya, *African Journal of Agricultural and Resource Economics*, 6(1)(2011): 70-86.

Atanu Rakshit\*, A.N.M. Rezaul Karim, Tatjana Hristovska, and George W. Norton, Impact Assessment of Pheromone Traps to Manage Fruit Fly on Sweet Gourd Cultivation, *Bangladesh Journal of Agricultural Research*, 36 (2) (2011): 197-203.

Alwang, Jeffrey and George W. Norton, "What Types of Safety Nets Would be Most Efficient and Effective for Protecting Small Farmers and the poor Against Volatile Food Prices?" *Journal of Food Security*: 3 (Suppl 1) (2011): S139- S148.

Bayer, Jessica\*, George W. Norton, and Jose Falck-Zepeda, "Cost Compliance with Biotechnology Regulation in the Philippines: Implications for Developing Countries," *AgBioForum*: 13 (1) (2010): 53-62

Rudi, Nderim,\* George W. Norton, Jeffrey Alwang, and Godwin Asumugha, "Economic Impact Analysis of Marker-Assisted Breeding for Resistance to Pests and Post Harvest Deterioration in Cassava," *African Journal of Agricultural and Resource Economics*, 4 (2010) (2): 110-122.

Alpuerto, Vida-LinaEsperanza B\*., George W. Norton, Jeffrey Alwang, and Abdelbagi M. Ismail, "Economic Impact Analysis of Marker-Assisted Breeding for Tolerance to Salinity and Phosphorous Deficiency in Rice," *Review of Agricultural Economics*, 31 (2009): 779-792.

Ricker-Gilbert, Jacob\*, George W. Norton, Jeffrey Alwang, Monayem Miah, and Gershon Feder, "Cost Effectiveness of Alternative IPM Extension Methods: An Example from Bangladesh," *Review of Agricultural Economics*, 30 (2008): 252-269.

Gregory, Peter, Robert H. Potter, Frank A. Shotkoski, Desiree Hautea, K.V. Raman, Vijay Vijayaraghavan, William H. Lesser, George Norton, and W. Ronnie Coffman, "Bioengineered Crops as Tools for International Development: Opportunities and Strategic Considerations," *Experimental Agriculture*, volume 44, 2 (April 2008): 277-299.

Mauceri, Maria\*, Jeffrey Alwang, George W. Norton, and Victor Barrera, "Adoption of Integrated Pest Management Technologies: A Case Study of Potato Farmers in Carchi, Ecuador, *Journal of Agricultural and Applied Economics*, 30 (December 2007): 765-780.

Moyo, Sibusiso\*, George W. Norton, Jeffrey Alwang, Ingrid Rhinehart, and C. Michael Deom, "Peanut Research and Poverty Reduction: Impacts of Variety Improvement to Control Peanut Viruses in Uganda," *American Journal of Agricultural Economics*, 89, 2(May 2007):448-460.

Huffman, Wallace, George W. Norton, Gregory Traxler, George Frisvold, and Jeremy Foltz, "Winners and Losers: Formula Versus Competitive Funding of Agricultural Research," *Choices*, 21, 4 (2006): 269-274.

Nevitt, J., Mills, B.F., Reaves, D.W., & Norton, G.W., "Public perceptions of tobacco biopharming." *AgBioForum*, 9(2)(2006): 104-110. Available on the World Wide Web: <http://www.agbioforum.org>.

Kostandini, Genti\*, Bradford Mills, and George W. Norton, "Potential Impact of Tobacco Bio-Pharming: The Case of Human Serum Albumin, *American Journal of Agricultural Economics*, 88 3(2006): 671-679.

Hareau, Guy G\*, Bradford Mills, and George W. Norton, "The Potential Benefits of Herbicide Resistant Transgenic Rice in Uruguay: Lessons for Small Developing Countries," *Food Policy*, 31 (2006): 162-179.

Mamaril, Cezar B\*. and George W. Norton, "Economic Evaluation of Transgenic Pest-Resistant Rice in the Philippines and Vietnam," *Quarterly Journal of International Agriculture*, 45, 2(2006): 127-144.

Schimmelpfennig, David E., Christopher J. O'Donnell, and George W. Norton, "Efficiency Effects of Agricultural Research in the United States," *Agricultural Economics*, 34 3 (2006): 273-280.

Daku, Lefter,\* George W. Norton, Daniel B. Taylor, and Eivis Qenani-Petrela, "Agricultural Extension in South-Eastern Europe: Issues of Transition and Sustainability." *Journal of Agricultural Education and Extension*, 11:2 (2005): 49-62.

Schimmelpfennig, David E. and George W. Norton, "Assessing the Value of Economics Research: The Case of the Bias in the Consumer Price Index," *Contemporary Economic Policy*, 23,4 (2005): 625-635.

Hareau, Guy,\* George E. Norton, Bradford F. Mills, Everett Peterson, Potential Benefits of Transgenic Rice in Asia: a General Equilibrium Analysis, *Quarterly Journal of International Agriculture*, 44 (2005):229-246.

Bergtold, Jason,\* George Norton, and Charlene Brewster, Lomé to Contonou Conventions: Trade Policy Alternatives for the Senegalese Groundnut Sector. *Agricultural Economics*. 33(2005): 315-323.

Ebere Akobundu,\* Jeffrey Alwang, Albert Essel, George W. Norton, and Abebayehu Tegene. "Does Extension Work? Impacts of a Program to assist Limited-Resource Farmers in Virginia." *Review of Agricultural Economics*. 26:3(Fall 2004): 361-372.

Victor Barrera, Luis Escudero,\* Jeff Alwang, and George Norton, "Encontrado Salida para Reducir los Costos y la Exposition a Plaguicidas: Experiencias con ECAs en el Norte de Ecuador," *LEISA Revista de Agroecologia*, 19, 1 (Junio 2003): 46-48.

Schimmelpfennig, David E. and George W. Norton, "What is the Value of Agricultural Economics Research?" *American Journal of Agricultural Economics*, Volume 85 (1)(February 2003): 81-94.

Schimmelpfennig, David E. and George W. Norton, 2003, Measuring the Benefits of International Agricultural Economics Research, *Quarterly Journal of International Agriculture*, 42 (2)(2003): 207-222.

Cuyno, Leah C.M.,\* George W. Norton, and Agnes Rola, "Economic Analysis of Environmental Benefits of Integrated Pest Management: A Philippines Case Study", *Agricultural Economics*, 25 (September 2001): 227-234.

Liu, Binzhang,\* Shukla Kshirsagar,\* Thomas Johnson, Craig Thatcher, and George W. Norton, "Evaluating the Short and Long Run Economic Impacts of the Virginia-Maryland Regional College of Veterinary Medicine", *Journal of Agricultural and Applied Economics*, 33,1(April 2001): 49-57.

Norton, George W., Edwin G. Rajotte, and Victor Gapud, "Participatory Research in Integrated Pest Management: Lessons from the IPM CRSP", *Agriculture and Human Values*, 16(1999): 431-439.

Mutangadura, Gladys\* and George W. Norton, "Agricultural Research Priority Setting Under Multiple Objectives: An Example from Zimbabwe", *Agricultural Economics*, 20(1999): 277-286.

Trupo, Paul,\* Luke A. Colavito,\* Dixie W. Reaves, Charles W. Coale, Jr., and George W. Norton, "Agricultural Cooperation and Produce Marketing in Southwest Virginia", *Journal of Food Distribution Research*, 29 (July 1998): 45-58.

Ahearn, Mary C., Henry M. Bahn, Peter J. Barry, Sam M. Cordes, Tracy I. Hewitt, George W. Norton, Katherine Smith, and Amy M. Thurow, "Doing Good by Choosing Well: Priorities For Agricultural Economics", *Review of Agricultural Economics*, 20 (Fall/Winter 1998): 332-346.

Tjornhom, Jessica D.,\* George W. Norton, and Victor Gapud, "Impacts of Price and Exchange Rate Policies on Pesticide Use in the Philippines", *Agricultural Economics*, 18 (March 1998): 167-175.

Mullen, Jeffrey D.\* George W. Norton, and Dixie W. Reaves, "Economic Analysis of Environmental Benefits of Integrated Pest Management," *Journal of Agricultural and Applied Economics*, 29 (December 1997):243-253.

Norton, George W. and Jeffrey Alwang "Measuring the Benefits of Policy Research," *American Journal of Agricultural Economics*, 79 (December 1997): 1534-1538.

Tjornhom, Jessica D.,\* George W. Norton, K.L. Heong, N.S. Talekar, and Victor Gapud, "Determinants of Pesticide Misuse in Philippine Onion Production," *The Philippine Entomologist*, (October 1997): 139-149.

Ortiz, Jaime,\* Jeffrey Alwang, and George W. Norton, "Beneficios Sociales de la Investigacion Agropecuaria en Chile, en un Contexto de Politicas Distorsionadoras de Precios," *Agricultura Tecnica* (Chile), SS (Julio-Diciembre, 1995): 189-203.

Ortiz, Jaime,\* Jeffrey Alwang, and George W. Norton, "Interacciones Entre Politicas y Gastos en Investigacion Agropecuaria," *Cuadernos de Economia*, 32 (1995): 199-215.

Carcamo, Julio A.,\* Jeffrey Alwang, and George W. Norton, "On-site Economic Evaluation of Soil Conservation Practices in Honduras," *Agricultural Economics*, 11 (1994): 257-269.

Hwang, Sang,\* Jeffrey Alwang, and George W. Norton, "Soil Conservation Practices and Farm Income in the Dominican Republic," *Agricultural Systems*, 46 (1994): 59-77.

Pena, Pedro,\* and George W. Norton, "Effects of Sectoral and Economy-Wide Policies on Tobacco Production in the Dominican Republic," *Journal of Agricultural and Applied Economics*, 25:1 (July 1993): 151-164.

Kazmierczak, Richard F.\* and George W. Norton, "Economic Effects of Resistance and Withdrawal of Organophosphate Pesticides on an Apple Production System," *Journal of Economic Entomology*, 86:3 (June 1993): 684-696.

Norton, George W., Philip G. Pardey, and Julian M. Alston, "Economic Issues in Agricultural Research Priority Setting," *American Journal of Agricultural Economics*, 74:5 (December 1992): 1089-1094.

Dey, Madan M. and George W. Norton, "Rice Research Priorities in Bangladesh: A Quantitative Analysis," *Bangladesh Journal of Agricultural Economics*, 15:2 (December 1992): 1-17.

Norton, George W. and Jaime Ortiz, "Reaping the Returns to Research," *Journal of Production Agriculture*, 5:2 (April-June 1992): 203-209.

Norton, George W., Jaime A. Ortiz, and Philip G. Pardey, "The Impact of Foreign Assistance on Agricultural Growth," *Economic Development and Cultural Change*, 40 (July 1992): 775-786.

Adusei, Edward O.,\* and George W. Norton, "The Magnitude of Agricultural Maintenance Research in the United States," *Journal of Production Agriculture*, 3:1 (January-March 1990): 1-6.

Bezuneh, Mesfin,\* Brady J. Deaton, and George W. Norton, "Farm Level Impacts of Food-For-Work in a Semi-Arid Region of Kenya," *Eastern Africa Economic Review*, 5:1(June 1989):1-8.



Knight, Alan L., and George W. Norton, "Economics of Agricultural Pesticide Resistance in Arthropods," *Annual Review of Entomology*, 34(1989): 293-313.

Bouchet, Frederic C.,\* David R. Orden, and George W. Norton, "Sources of Growth in French Agriculture," *American Journal of Agricultural Economics*, 71:2 (May 1989): 280-293.

Walters, Edward B.,\* and George W. Norton, "Impacts of New Technologies in Two Regions of Peru," *Agricultural Systems*, 27:4 (1988): 241-249.

Bezuneh, Mesfin,\* Brady J. Deaton, and George W. Norton, "Food Aid Impacts in Rural Kenya," *American Journal of Agricultural Economics*, 70:1 (February 1988): 181-191.

Napit, Krishna B.,\* George W. Norton, Richard F. Kazmierczak, Jr., and Edwin G. Rajotte, "Economic Impacts of Extension Integrated Pest Management Programs in Several States," *Journal of Economic Entomology*, 81:1(February 1988): 251-256.

Norton, George W., Victor G. Ganoza, and Carlos Pomareda, "Potential Benefits of Agricultural Research and Extension in Peru," *American Journal of Agricultural Economics*, 69:2 (May 1987): 247-257.

Martinez, Stephen W.,\* George W. Norton, Oral B. Capps, and William D. Weaver, "A Demand Model for the United States Broiler Industry," *Poultry Science*, 65 (November 1986): 2071-2075.

Martinez, Stephen W.,\* and George W. Norton, "Evaluating Privately Funded Public Research: An Example with Poultry and Eggs," *Southern Journal of Agricultural Economics*, 18:1 (July 1986): 129-140.

Greene, Catherine R.,\* Randall A. Kramer, George W. Norton, Edwin G. Rajotte, and Robert M. McPherson, "An Economic Analysis of Soybean Integrated Pest Management," *American Journal of Agricultural Economics*, 67:2 (August 1985): 567-572.

Greene, Catherine R.,\* Edwin G. Rajotte, George W. Norton, Randall A. Kramer, and Robert M. McPherson, "Revenue and Risk Analysis of Soybean Pest Management Options in Virginia," *Journal of Economic Entomology*, 78:1 (February 1985): 10-18.

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Norton, George W., "The Productivity and Allocation of Agricultural Research," *North Central Journal of Agricultural Economics*, 3:1 (January 1981): 1-12.

Norton George W., K. William Easter, and Terry L. Roe, "American Indian Farm Planning: An Analytical Approach to Tribal Decision Making," *American Journal of Agricultural Economics*, 62:4 (November 1980):

690-699.

Easter, K. William, and George W. Norton,\* "Potential Returns from Added Research Budget for the Land Grant Universities," *Agricultural Economics Research*, 29:4 (October 1977): 127-133.

Easter, K. William, Martin E. Abel, and George W. Norton,\* "Regional Differences in Agricultural Productivity in Selected Areas of India," *American Journal of Agricultural Economics*, 59:2 (May 1977): 257-265.

Norton, George W.,\* "Consumer Markets in a Colombian Town," *The Journal of Consumer Affairs*, 10:1 (Summer 1976): 48-61.

b. *Books*

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#### **PRESENTATIONS (Last three years)**

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Norton G. (July 22, 2019) U.S. Benefits from Foreign Assistance to Developing Country Agriculture, presented at the Annual Meeting of the Agricultural and Applied Economics Association, Atlanta, GA, as part of a panel discussing US Benefits from Foreign Assistance to Developing Country Agriculture and Food Security.

Norton, G. (June 18, 2019). Evaluating Economic Impacts of Agricultural Research. Quito, Ecuador. Seminar presentation at the Universidad de las Americas de Ecuador, Campus Granados.

Norton, G., Hasan, M., Mabca, J., Ngundu, B., O'Reilly, R., & Cana, L. (May 7, 2019). Summary of IPM adoption and impact assessment research, with focus on Kenya. Dar Es Salaam, Tanzania. Powerpoint presentation at the East Africa Vegetable IPM IL Review and Planning Meeting, May 9-10, 2019, Dar Es Salaam, Tanzania.

Norton, G., Muniappan, R., & Rajotte, E. (March 11, 2019). Challenges in Implementing Vegetable IPM in Developing Countries. In 90th Annual Meeting of the Eastern Branch of the Entomological Society of America. Blacksburg, VA.

Norton, G. (January 28, 2019). Integrated Pest Management (IPM) and Its Global Impacts. Phenom Penh, Cambodia. Invited presentation to faculty and students at the Royal University of Agriculture in Cambodia.

Norton, G. (December 11, 2018). IPM IL: Integrated Pest Management Strategies for Vegetable and Mango Pests in Asia. Blacksburg, VA. Presentation to External Review Committee of IPM IL.

Brenal-Galeano, V., Shirey, E., Alwang, J., Anglin, N. L., Ellis, D., Hareau, G., . . . Norton, G. (October 3, 2018).

Assessing the Impact of the CIP Genebank. Poster session presented at the meeting of International Potato Center Science Meeting, Nairobi, Kenya.

Norton, G. (August 8, 2018). Avenues of economic impact of U.S. benefits from USAID investments in developing country agriculture and food security. In US Benefits and Capabilities Leveraged from Strategic USAID Investments in Developing Country Agriculture and Food Security (Post conference sponsored by BIFAD to the AAEA Annual Meeting). Washington DC.

Norton, G. (August 6, 2018). Structural Change in Agricultural Production: A Micro Perspective. Discussant in AAEA Annual Meeting. Washington DC.

Norton, G., Alwang, J., & Cheng, Z. (June 12, 2018). Economic Evaluation of Agricultural Research and Extension in Virginia. In Disruptive Innovations, Value Chains, and Rural Development (NC-1034 Pre-conference). World Bank, Washington, DC.

Norton, G. (May 28, 2018). IPM IL: Integrated Pest Management Strategies for Vegetable and Mango Pests in Asia. Presentation at Annual Technical Meeting on IPM IL, Phenom Penh, Cambodia.

Norton, G. (April 16, 2018). Ethiopia and Kenya Vegetable IPM Survey Results. Presentation at annual meeting of East Africa site of IPM IL, Addis Ababa Ethiopia.

Norton, G. (March 22, 2018). Why IPM Makes a Difference: Lessons from a Lifetime. Keynote presentation at the 9th International IPM Symposium. Baltimore, Maryland.

Norton, G. W. (August 1, 2017). Discussant Comments on Plants, Patents, and Politics. In AAEA Annual Meeting Session on Plants, Patents, and Politics. Chicago, IL.

Norton, G. W. (July 10, 2017). IPM IL: Integrated Pest Management Strategies for Vegetable and Mango Pests in Asia. Presentation at the annual Technical Committee meeting of the IPM IL, Addis Ababa, Ethiopia.

Alwang, J. R., & Norton, G. W. (May 15, 2017). Adoption, Diffusion and Impacts of Potato Variety Cooperation 88 (C88) in China. Presentation at International Potato Center, Lima, Peru.

Norton, G. W., Shirey, E., & Alwang, J. (April 26, 2017). Economic Impacts of the CIP Genebank. Presentation made at the International Potato Center, Lima, Peru.

Norton, G. W., Hasan, M., Mbaka, J., Rakowski, C., Kassie, M., & Korir, J. (March 22, 2017). Summary Results from IPM-IL Kenya Vegetable Baseline Survey. Presentation at the East Africa Vegetable IPM IL Review and Planning meeting, Embu, Kenya.

Norton, G. W., & Ouomou, M. (2017). Ex Ante Impact Assessment of Biological Control of Millet Head Miner in Niger. Poster session presented at the meeting of Annual meeting of the USAID Feed the Future Sorghum and Millet Innovation Lab in Dakra, Senegal.

Norton, G. W. (March 3, 2017). Integrated Pest Management (IPM) and its Global Impacts. Seminar presentation at Virginia Tech Bio-complexity Institute NDSSL Seminar Series, Blacksburg, VA.

Sah, L., Giri, A., Colavito, L., Yendyo, S., Dhakal, Y., Sharma, D., . . . Paudel, S. (January 11, 2017). Occurrence, Distribution, and Management of South American Leafminter (Tuta Absoluta) in Nepal. In International Conference on Biodiversity, Climate Change Assessment, and Impacts on Livelihood. Katmandu, Nepal.

## **INTERNATIONAL, NATIONAL, AND REGIONAL COMMITTEES AND ACTIVITIES:**

American Agricultural Economics Association, Fellows Selection Committee, 2022.  
 American Agricultural Economics Association, Awards Committee, Senior Section Chair-Elect, Chair, and past Chair, 2015, 2016, 2017.  
 American Agricultural Economics Association, Awards Committee Chair, 2012-13.  
 American Agricultural Economics Association, Publication of Enduring Quality Awards Committee, 1998 – 2000  
 American Agricultural Economics Association, Outstanding Policy Contribution Awards Committee, 1993-1996; 2002-2005, (Chair, 2003-2004)  
 American Agricultural Economics Association, Nominating Committee, 1989-1990, 2017-2019  
 American Agricultural Economics Association, International Committee, 1986-1989  
 American Agricultural Economics Association, Quality of Communication Awards Committee, 1984-1987 (Chair, 1986-87)  
 Council on Food, Agricultural, and Resource Economics, Blue Ribbon Panel on Agricultural Development, 2011-present (Chair)  
 Board member, Council on Food, Agricultural, and Resource Economics (C-FARE), 2003 – 2005  
 U.S. Council of the International Association of Agricultural Economists, 1996-2001 (Chair)  
 Editorial Council, Journal of Agricultural and Applied Economics (2019-2022)  
 Book Review Editor, *Agricultural Economics*, the Journal of the International Association of Agricultural Economists, 2000 – 2006  
 Member, National Research Council Committee on Prospective Benefits of Energy Efficiency and Fossil Fuels Research, 2004-2005  
 Member, CSREES review team for Department of Agricultural Economics, Michigan State University, June 2005  
 Member, CSREES review team for Department of Agricultural Economics and Management, Cornell University, May 1999  
 Scientific Advisory Panel, FIFRA, USEPA, October 2002  
*Desarrollo Rural* Editorial Council, 2000-present  
 Program Planning Committee for Fifth National IPM Symposium, 2004-2006, 2016-2018.  
 Poster Planning Committee for the Sixth International IPM Symposium, 2008-2009.  
 Advisory Board, CIMMYT- led agricultural research project in Latin America, 1998-2000  
 IPM-CRSP, Technical Committee Chair, 1994 - 2014  
 Extension Committee on Policy (ECOP) National Integrated Pest Management (IPM) Task Force, 1992 - 1996  
 North Central Regional Research Committee (multi-state committee), NC-208 and NC-1034, 1991 - 2020 (Chair, 1991-1996)  
 USDA/USEPA Integrated Pest Management Action Team for Tree Fruits, 1991  
 Team member, Evaluation of the USAID Research, Education, and Extension Project in Peru, January 1984.  
 Team member, Nepal Agricultural Research Review Mission, May-June 1983  
 Member of Interregional Technical Committee, National Agricultural Research Planning and Analysis (IR-6), 1982-1991  
 Member, U.S.-BARD Review Panel for Agricultural Economics, 1982, 1999  
 Member of North Central Regional Research Committee, NC-148, 1978-1980  
 Member of Program Planning Committee for Symposium on Agricultural Research Evaluation sponsored by NC-148, May 1980

#### EXTERNAL GRANTS RECEIVED:

Title	Source	Amount	Duration	Role
Feed the Future Nepal Integrated Pest Management	USAID	\$1,392,452	11/16/19-11/15/22	Co-PI, Lead writer

Building Analytical and Global Competencies through Agricultural Research Internships in Ecuador	USDA-NIFA	\$414,585	1/1/19-12/31/23	Co-PI, Co-writer
Impact Assessment of Technological Innovation and Dissemination for CURE	IFAD	\$495,000	1/08/18-7/08/2020	Co-PI, Secondary writer
Feed the Future Innovation Lab for Integrated Pest Management: Ecological-Systems-based IPM with a Focus on Asia and Africa	USAID	\$18,000,000	11/17/14 – 11/16/20	Co-PI, lead writer on proposal
Scholar Rescue Fund Fellowship	IEE	\$25,000	8/16/14-8/15/16	Lead writer
Biological control of the millet head miner in Niger and Senegal	Kansas State Sub under Sorghum & Millet IL	\$629,748	4/16/14 – 9/15/18	Co-PI Secondary writer
Strengthening Impact Assessment in the CGIAR: New partnerships for building impact assessment capacity	FAO	\$286,122	1/12/14-12/31/15	Co-PI, lead writer on proposal
Measuring and assessing Poverty and Food Security Impacts of the Diffusion of Maize and wheat Varieties in Africa	CIMMYT	\$80,000	1/01/11 – 12/31/2012	Co-PI Secondary writer
Measuring and Assessing Impacts of Sweet Potato varieties in Africa	CIP	\$104,067	1/01/11 – 12/31/2012	Co-PI Secondary writer
Evaluation of ipmPIPE and Innovative Diagnostic Tools for Onion Growers	NC State	\$134,616	9/10/10 – 8/31-13	PI, Lead writer For sub-grant on USDA project)
Potential Benefits of Marker-Assisted Selection Technologies on Wheat, Sorghum, Cassava, and Rice, and of the Molecular Breeding Platform Supported by the Generation Challenge Program	CIMMYT	\$157,602	5/16/10 – 12/31/11	PI, Lead Writer
SANREM Economic Impact Analysis	USAID	\$502,000	10/01/09 – 9/30/14	Co-PI,
A New Paradigm for Implementing Ecologically -based Participatory IPM in a Global Context (IPM CRSP)	USAID	\$15,000,000	10/01/09 – 9/30/14	Co-PI, lead writer on proposal
Ex Ante Impact Analysis of Nutrient Rich Cassava Varieties in Kenya and Nigeria	Danforth Plant Science Center	43,700	6/01/09-5/31/10	PI Lead Writer
Enhancing Productivity and Soilborne Disease Control in Intensive Organic Vegetable	Ohio State	\$122,000	10/01/09 – 9/30/2012	Co-PI Lead Writer for sub-grant

Production with Mixed-Species Green Manures				on USDA project
African Food Security Initiative: Reducing trade bottlenecks	USAID	1,000,000	10/01/08 – 9/30/11	Co-PI Lead Writer
Is the Share of Agricultural Maintenance Research Rising? Implications for Future Productivity Growth in U.S. Agriculture	USDA	\$35,000	9/17/07-9/30/08	PI lead writer
Support for Graduate Student Assistantship on Poverty Impacts of Bt Eggplant in the Philippines	International Service for Acquisition of Agri-Biotech	\$29,000	8/16/07-9/30/08	PI Lead writer
Evaluation of IPM in the Southern Region	USDA	\$99,719	7/01/07 – 06/30/09	PI, lead writer
Ex Ante Impact Analysis of Marker-Assisted Selection Technologies Supported by the Generation Challenge Program	CIMMYT (CGIAR)	\$148,618	12/16/06 – 12/15/08	PI, lead writer
A New Paradigm for Implementing Ecologically -based Participatory IPM in a Global Context (IPM CRSP)	USAID	\$12,000,000	10/01/04 – 9/30/09	Co-PI, lead writer on proposal
Watershed-based Natural Resource Management in Small-scale Agriculture: Sloped Areas of the Andean Region (SANREM)	USAID	\$310,304	10/01/05 – 9/30/09	Co-PI secondary writer
Peanut Collaborative Research Support Program (CRSP)	U. of Georgia	\$657,733	8/01/96 – 7/31/07	Co-PI, co-lead writer
Impact Assessment of Biotechnologies Under ABSPII	Cornell University	\$135,359	6/01/04 – 9/30/07	PI, lead writer
The Role of 1890's in Building Human Capital Among Rural Peoples: Methods and Case Studies	Virginia State University	\$60,187	12/02/02-11/30/06	Co-PI, lead writer
Economic and Environmental Assessment of an IPM Program for German Cockroach Control in Public Housing	USDA	\$66,124	10/01/03 – 10/01/06	Co-PI, secondary writer
Participatory Assessment of Social and Economic Impacts of Biotechnologies	USDA	\$1,117,425	9/15/01 – 9/14/06	PI, lead writer
Participatory IPM: A Model for Implementing Pest Management in Global Context (Phase II)	USAID	\$11,500,000	10/01/98 – 12/31/06	Co-PI, lead writer
Twenty Year Economic Evaluation of BARD Program	BARD (deposited in VT Foundation)	\$5500	1/01/99 – 1/31/2000	PI and writer
Development of Methods for Evaluating Agricultural Economics Research	USDA	\$45,000	10/01/98 – 12/31/2000	PI and writer

Methodologies for Assessing Impacts of IPM	USDA	\$20,000	09/05/97 – 7/31/99	PI and writer
Institutionalizing Improved Priority Setting Processes for Agricultural Research in Zimbabwe	Rockefeller Foundation	\$79,610	7/1/95 – 6/30/97	PI and writer
An Economic Analysis of Establishing Sipping-Point Marketing Facilities in Virginia's Ninth Congressional District	USDA	\$28,000	7/01/95 - 6/30/96	Co-PI and lead writer
Agricultural Research Evaluation and Priority Setting	ISNAR	\$60,979	1/01/93 - 12/31/94	PI and writer
Participatory IPM: A Model for Implementing Pest Management in a Global Context	USAID	\$6,700,000	9/29/93 – 9/28/98	Co-PI, lead writer
Economic Impacts of Integrated Pest Management	USDA	\$53,294	6/01/92 - 5/31/94	PI and writer
Institutional Approaches for Encouraging Sustainable Use of Natural Resources	USAID	\$48,418	3/16/90 – 3/14/92	Co-PI, secondary writer
Procedures for Setting Agricultural Research Priorities at the National and Regional Levels	ISNAR	\$107,029	1/1/90 – 12/31/92	PI and writer
National and Regional Analysis, Evaluation, Planning, and Financing of Agricultural Research	USDA	\$159,220	10/1/85 – 9/30/91	PI and lead writer
Managing the Impact of Regulations on the Development of Pest Resistance to Insecticides	USDA	\$13,400	6/01/90 – 5/31/91	PI and writer
Pesticide Cost and Benefit Analysis for Crop and Non-Crop Sites in Virginia and Other States	USEPA	\$231,500	6/27/86 – 6/15/90	Co-PI and lead writer
Priority Setting in Agricultural Research	ISNAR	\$47,848	1/01/87 – 12/31/89	PI and writer
Agricultural Research and Extension Resource Allocation and Productivity in Peru	NC State (Paid to the VT Foundation)	\$23,540	10/01/84 – 3/31/86	PI and writer
National Evaluation of Extension Integrated Pest Management Program	USDA	\$180,000	9/15/83 – 1/15/86	Co-PI, secondary writer
Evaluation of Agricultural Research Programs in the Southern Region and the U.S.	USDA	\$55,153	10/01/82 - 9/30/85	PI and writer
Procedure for Evaluating Completed Research Projects Funded by the Southeastern Poultry and Egg Association	Southeastern Poultry and Egg Association	\$16,791	10/01/82 – 6/30/83	PI and writer
Nepal Agricultural Research Review	USDA	\$7696	5/01/83 – 6/30/83	PI and writer
Analysis of Costs and Benefits of the Use of Pesticides on Crop and Non-crop Sites in Virginia and	USEPA	\$141,000	11/01/81 – 10/31/82	Co-PI and lead writer



Other States				
Literature Review of Methods for Selecting and Evaluating Agricultural Research Programs and Projects	BARD	\$10,000	3/01/81 – 6/30/81	Co-PI and secondary writer
Various other small projects for which honorariums were deposited in Virginia Tech Foundation	USAID, ISNAR, Winrock, IFPRI	\$39,502	1/1/84 – 12/31/06	PI and writer

## INTERNATIONAL EXPERIENCE:

### Asia and Australia

**Cambodia** -- Participated in design and implementation of an integrated pest management research project for Cambodia on vegetable integrated pest management under the auspices of the USAID-funded IPM Innovation Lab (IL) and a separate project on rice IPM. Visited in January and April 2016 for planning, June 2016 to initiate a baseline survey in rice IPM, January 2017, 2018, and 2019 for review and planning.

**India** – Reviewed progress on eggplant biotechnology research, and made invited presentation at Tamil Nadu Agricultural University, February 2003. Presentation on measuring impacts of biotechnology to students and discussed impact assessment under Cornell's Agricultural Biotechnology Support Project II (ABSPII), Hyderabad, January, 2005. Participated in design and implementation of an integrated pest management research project in India under the auspices of the USAID-funded IPM CRSP, (visited February, 2009, 2010, 2011, 2012, 2013, 2014).

**The Philippines** – Conducted impact assessment research on Generation Challenge Grant Program at IRRI in March 2007. Participated in design and implementation of an integrated pest management research project for the Philippines under the auspices of the USAID-funded IPM CRSP, including various seminars and workshops (visited every year from 1994 to 2008). Presented seminar at SEARCA on measuring impacts of biotechnology and designed impact assessment for ABSPII in the Philippines and Indonesia, January, 2005; reviewed ABSPII project progress, May 2005, May 2006, and March 2007. Presented a paper, and participated as a discussant in Rice Research Prioritization Workshops at the International Rice Research Institute (IRRI), Los Banos, (August and February, 1994).

**Bangladesh** - Participated in the design and implementation of an integrated pest management research project for Bangladesh under the auspices of the USAID-funded IPM CRSP/IL, (visited 1-3 times per year from 1998 to 2019). Assisted the Bangladesh Agricultural Research Council in conducting a study of agricultural research priorities (visited July and September 1989, January, 1990, and May, 1992). Participated in a workshop on biotechnology impact assessment, organized under the auspices of the USAID-funded ABSPII project and the Bangladesh Agricultural Research Council, August 2005.

**China** - Presented a paper to, and participated in, The International Symposium on the Future of Agricultural Education at Beijing Agricultural University, October, 1990.

**Australia** - Collaborated with researchers on methods for setting agricultural research priorities at the Australian Center for International Agricultural Research (ACIAR), Canberra, February 1988. Participated in and made 3 presentations at the 26<sup>th</sup> Conference of the International Association of Agricultural Economists, Gold Coast, August 12-18, 2006.

**Indonesia** - Assisted ISNAR and host country researchers on methods for setting agricultural research priorities, Bogor, February 1988. Assisted economists at the Indonesian Vegetable Research Center in Bandung with

evaluations of tomato and potato biotechnology research, supported by USAID ABSPII project and the International Potato Center, March 2006.

**Nepal** – Visited field site and reviewed progress on IPM CRSP/IL in Nepal, May, 2008, 2009, Feb 2010, 2011. 2012, 2013, 2014, April 2015, Feb 2016, Feb 2017, Jan 2018, Jan 2019, Jan 2020. Visited and initiated field survey on IFAD project Jan and May 2018. Participated in a workshop on integrated pest management at the National Agricultural Research Council and met with officials at USAID to discuss funding possibilities for future IPM research, Katmandu, February, 1996. Member of FAO-World Bank-USAID-ODA mission to review the Nepal agricultural research system, May-June 1983.

**Vietnam** – Participated in a stakeholders meeting to establish an IPM program in Vietnam under the auspices of the USAID-funded IPM CRSP, May 2005

**Thailand** – Participated and presented in the annual meeting of the Generation Challenge Program Annual Research Conference, September 16-20, 2008.

## **Africa**

**Ethiopia** -- Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016, July 2017, and April 2018.

**Niger** – Collaborated with Scientists at ICRISAT and INRAN on a study to design a sustainable mechanism for biological control of millet head minor, June 2014 and May-June 2015.

**Uganda** – Conducted initiated collaborative research to assess farmers' views on conservation agriculture in eastern Uganda, June, 2013 and potential poverty reducing impacts of conservation agriculture in July 2014.

**Nigeria** – Collaborated with scientists at the National Root Crops Research Institute on an evaluation of marker assisted breeding program on cassava, January 27- February 2, 2008.

**Zimbabwe** - Assisted the Department of Research and Specialist Services to develop and apply a procedure for setting agricultural research priorities (1995-1997), (visited July – August 1995, April - May 1996, and April, 1997). Participated in and made two presentations at the World Bank/EDI Sponsored Program Development Workshop in Harare, February, 1995. Participated in workshop to discuss the Land Tenure Commission Agricultural Services papers, March, 1995. Participated in and led parts of a workshop in Bulawayo to develop a national agricultural research plan February -March 1991.

**Senegal** – Conducted collaborative research project on groundnut policy with ISRA/Kaolack (1997-2001), visited March, 1997.

**Kenya** – Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016 to plan, June 2016 to initiate a baseline survey, and April 2017 to plan and review. Assisted the International Livestock Research Institute in developing a procedure for evaluating its programs, Nairobi: January, February, and May, 1996. Participated in and led parts of a workshop on methods for setting agricultural research priorities, Nairobi, February, 1991.

**Malawi** - Participated in and led parts of a "Workshop on Managing Change" in the Department of Agricultural Research, Lilongwe, May, 1990.

**Tanzania** – Participated in the design and implementation of an integrated pest management research project for vegetables under the auspices of the USAID-funded IPM Innovation Lab (IL), visiting in April 2016 and May 2019.

Assisted the Department of Agricultural Research and Training and ISNAR in preparing a National Agricultural Research Plan for Tanzania (visiting several research stations, April - June, 1990).

**The Gambia** - Assisted the national agricultural research system in conducting a study of agricultural research priorities, March, 1989.

**Ghana** –Worked with an economist from the Crops research Institute in Kumasi on the evaluation of the Peanut IPM program with support from the Peanut CRSP, May 2006.

**Mali** – Worked with IER, AVRDC, and IITA to initiate a survey and design an evaluation of the program to control tomato viruses funded by the USAID-funded IPM CRSP and ABSPII projects, May 27-June 2, 2006.

**South Africa** – Participated and presented in in the annual meeting of the Generation Challenge Program Annual Research Conference, September 2009.

### **Latin America and the Caribbean**

**Ecuador** – Led group of 7 undergraduate students conducting research in Ecuador in June 2019 and another group of 5 students in June 2022 under auspices of a USDA grant. Participated in implementation of the sustainable agriculture project for Ecuador under the auspices of the USAID - Funded SANREM project, June, 2006. Led groups of 5-8 students conducting research in Ecuador in June 2007, 2009, 2011, 2013. Participated in the design and implementation of an integrated pest management project for Ecuador under the auspices of the USAID - Funded IPM-CRSP, Visited yearly 1997 – 2003, 2011, 2013. Assisted the national agricultural research institution in studies of its agricultural research priorities and with an evaluation of their maize program (January 28-February 2 and April 17-27, 1991, February 8-18 and November 22-25, 1992). Assisted in developing and applying a method for determining agricultural research priorities for the national agricultural research institution (August – November 1986, January and February 1991, February and November 1992).

**Mexico** – Participated in symposium on intellectual property rights and agricultural research impacts at CIMMYT (March, 1998) and as an advisory board member to a CIMMYT led research project, Mexico City, June, 1998.

**Guatemala** - Participated in annual symposium and planned workshop for the IPM-CRSP, May, 1997, June 2012.

**Jamaica** - Participated in annual symposium and planning workshop for the IPM-CRSP, May, 1996.

**Costa Rica** - Participated in a workshop at the International Institute of Agricultural Cooperation on strengthening the capacity for agricultural research priority setting in Latin America and the Caribbean. Attended advisory board meeting for CIMMYT research project, August 1999.

**Venezuela** - Assisted FONAIAP, the national agricultural research institution, with a study of their agricultural research priorities (traveled there July, August, and November, 1992, and March, 1993).

**Eastern Caribbean** - Assisted the United States Agency for International Development (USAID) to conduct an economic assessment of the impacts of additional USAID support for the Caribbean Agricultural Research

and Development Institution (CARDI), Barbados and St Lucia, December, 1989.

**Argentina** - Presented a paper to, and participated in, a conference for the directors of the National Agricultural Research Systems in Argentina, Brazil, Bolivia, Chile, and Uruguay on the topic of procedures for setting agricultural research priorities, December, 1987.

**Uruguay** - Assisted in developing and applying a method for determining agricultural research priorities for their national research institution, Montevideo, November-December, 1986 and April - May, 1987.

**Dominican Republic** - Assisted in developing a method for determining agricultural research priorities for the national research institution, Santiago, March 1986. Participated in a planning meeting to establish an IPM program in the DR under the auspices of the USAID-funded IPM CRSP and presented a workshop on agricultural research priority setting, May 2005. Planned and reviewed IPM CRSP progress in July 2010, May 2011.

**Peru** - Met with scientists at the International Potato Center to plan and discuss details of a project to evaluate impacts of CIP potato research, May 2014 and May 2015. Presented results of project at CIP in April 2017. Participated in an evaluation of the Peruvian National Agricultural Research and Extension Institution (with four trips to Peru from October 1984 - March 1986). Participant in a team conducting a mid-term evaluation of the USAID-sponsored US Agricultural Research, Extension, and Education Project, January 1984.

**Honduras** - Participant in a team assembled by Winrock International to develop a plan for a national agricultural research institute near San Pedro Sula, June 1984. Conducted IPM Impact Assessment Workshop at Zamorano, February 17-22, 2008. Reviewed IPM CRSP progress at FHIA in May 2010.

**Colombia** - Peace Corps Volunteer, Agricultural extension agent with the National Federation of Coffee Growers of Colombia working with vegetables, fruits, fishponds, and small livestock in Pensilvania, Caldas, July 1971-October 1973. Participated in a workshop on regional priority setting for agricultural research in Latin America and the Caribbean at the International Center for Tropical Agriculture (CIAT), November, 1995. Initiated research impact assessment on Challenge Grant Program at CIAT April 15-17, 2007. Presented seminar at CIAT and discussed impact assessment program in April 2010. Presented Seminar at CIAT in July 2016. Visited field office of the National Federation of Coffee Growers of Colombia in Pensilvania, Caldas, June 2012 and July 2016.

### **Europe and Middle East**

**Syria** - Collaborated on research with scientists at ICARDA (the International Center for Agricultural Research in Dry Areas) and presented a seminar, Aleppo, February 1-10 2007.

**Israel** - Participant in a joint U.S-Israeli team to evaluate the Bi-national Agricultural Research and Development program which supports collaborative research between the two countries, Tel Aviv, January 2000.

**Albania** - Participant in a team that assessed the appropriate size, scope, and role of the Agricultural University of Tirana, April 1995.

**The Netherlands** - Presented a seminar on evaluating social science research and discussed research with scientists at ISNAR, The Hague, July, 1997. Collaborated on research with scientists at ISNAR on agricultural research evaluation and priority setting (May - August 1988, July, 1990, July, 1991, March - April, 1992, February, June and July, 1993, and March, 1994). Participated in, and led parts of, a workshop at ISNAR on methods for setting agricultural research priorities for directors of national agricultural research systems in developing countries, November, 1989. Presented a paper on research priority setting at

an ISNAR workshop for directors of 30 national agricultural research systems, September, 1987.

**Italy** - Sponsored by the Rockefeller Foundation to attend a seminar in Bellagio and present a paper on procedures for setting agricultural research priorities in national agricultural research systems, July, 1987. Collaborated with a team of scientists at the FAO Investment Center in Rome to prepare a review report of the Nepal agricultural research system, June 1983.

**Spain** - Presented a paper to, and participated in, the XIX Triennial International Conference of Agricultural Economists, Malaga, August 1985.

**Germany** – Presented a paper and participated in the XXIV Triennial International Conference of Agricultural Economists, Berlin, August 2000. Participated and presented in conference sponsored by the Standing Panel on Integrated Pest Management of the CGIAR, Bonn, March 2010.