

## GERARD E. D'SOUZA

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### PROFESSIONAL EXPERIENCE

#### □ Full-Time Faculty / Administrative Positions

- May '14 -* Director, Division of Resource Economics and Management, West Virginia University.
- May '99 -  
April '14* Professor (and Chair, 2012-14) of Agricultural and Resource Economics, Division of Resource Economics & Management, Davis College, West Virginia University. [May '95 - August '99: Graduate Coordinator, Agricultural and Resource Economics Program].
- July '84 -  
April '99* Associate Professor (1992-99), Assistant Professor (1986-92), and Visiting Assistant Professor (1984-86) of Agricultural and Resource Economics, Division of Resource Economics and Management, West Virginia University.

#### □ Other Positions

- Sept '13* Fulbright Specialist, National University of Asuncion, Paraguay.
- Fall '09* Visiting Professor, Faculty Leader Program, Faculty of Marketing & International Business, Tec de Monterrey (ITESM), Queretaro, Mexico.
- Summer '08* Visiting Professor (Facultad invitado), Facultad de Economia, Division de Estudios de Postgrado, Universidad Nacional Autonoma de Mexico (UNAM), Mexico City.
- Apr '04 -* Faculty Research Associate, Regional Research Institute, West Virginia University.
- Oct -Nov '99  
& Sept-Dec '00* Visiting Professor, University of the Virgin Islands, St. Croix. Collaborated on various Experiment Station research projects as part of a sabbatical assignment.
- June '97* Resident writer, Blue Mountain Center, New York. Worked on a book.
- Aug '96* Consultant to IICA (Interamerican Institute for Cooperation on Agriculture), San Jose, Costa Rica, on a VOCA (Volunteers in Overseas Cooperative Assistance) sustainable development-related research project.
- Fall '91* Visiting Scholar, Henry Wallace Institute for Alternative Agriculture, Greenbelt, MD.
- May '78 -  
June '84* Graduate Research Assistant (May 1983 - June 1984 Research Associate), Department of Agricultural Economics, Mississippi State University.

### EDUCATION

- Ph.D. Agricultural Economics, Mississippi State University, 1983.
- M.S. Agricultural Economics, Mississippi State University, 1980.
- B.S. Agricultural Sciences, University of Agricultural Sciences, Bangalore, India, 1977.

## **PUBLICATIONS**

### **A. Books:**

- Rodriguez, I. and G. D'Souza. 2013. *Land as a Renewable Resource: Integrating Climate, Energy, and Profitability Goals Using NetLogo*. Scholars' Press. 152 pp.
- Mandal, M., J. Evans, and G.E. D'Souza. 2010. *New Advances in Risk Management of Niche Agricultural Products: Applications & Implications*. Saarbrucken, Germany: VDM Verlag. 132 pp.
- Amarasinghe, A. and G.E. D'Souza. 2010. *Economics of Health, Obesity and the Built Environment: Empirical Investigations and Policy Implications*. Saarbrucken, Germany: VDM Verlag. 145 pp.
- Evans, J. and G.E. D'Souza. 2009. *The Market for Grass-fed Beef in Appalachia: An Experimental Economics Approach to Determining Consumer Perceptions and Retail Potential*. Saarbrucken, Germany: VDM Verlag. 188 pp.
- D'Souza, G.E. and T.G. Gebremedhin, editors. 1998. *Sustainability in Agricultural and Rural Development*. Aldershot, UK and Brookfield, VT, USA: Ashgate Publishing Co. 245 pp.

### **B. Book Chapters and Reviews:**

- D'Souza, G. 2011. *Public Expenditures, Growth, and Poverty: Lessons from Developing Countries*. Shenggen Fan, editor. Washington, DC: IFPRI Press. Book review: *American Journal of Agricultural Economics* 93: 249-252.
- D'Souza, G. 2006. *India and Global Climate Change: Perspectives on Economics and Policy from a Developing Country*. M.A. Toman et al., eds. Washington, DC: RFF Press. 366 pp. Book review: *American Journal of Agricultural Economics* 88: 270-272.
- D'Souza, G. E., J. Ikerd, and L. Kemmet. 1998. "Sustainability and Size: Are Small Farms More Sustainable?" In *Sustainability in Agricultural and Rural Development*, G.E. D'Souza and T.G. Gebremedhin, eds. Aldershot, UK and Brookfield, VT, USA: Ashgate Publishing Co. pp 21-45.

### **C. Journal Articles:**

- Tawfeeq, M. and G. D'Souza. 2015. "Productivity of Industrial Capital and Labor, Kurdistan Region, Iraq (1995-2008)." *International Journal of Business and Economics Research* 4: 293-300.
- Rodriguez, I., G. D'Souza, and T. Griggs. 2013. "Can Spatial Dependence Enhance Industry Sustainability? The Case of Pasture-Based Beef." *Environmental Economics* 4: 93-102.
- Amarasinghe, A. and G. D'Souza. 2012. "Individual, Social, Economic, and Environmental Model: A Paradigm Shift for Obesity Prevention." *ISRN Public Health* vol. 2012, Article ID 571803, 10 pages, doi:10.5402/2012/571803.
- Evans, J., G. D'Souza, C. Brown, and M. Sperow. 2011. "Determining Consumer Perceptions of and Willingness to Pay for Appalachian Grass-fed Beef: An Experimental Economics Approach." *Agricultural & Resource Economics Review* 40: 233-250.
- Rodriguez, I., G. D'Souza and A. Collins. 2011. "Social Benefits of Niche Agricultural Products: A Conceptual Framework." *Environmental Economics* 2: 9-23.

- Amarasinghe, A., G. D'Souza, C. Brown, H. Oh, and T. Borisova. 2009. "The Influence of Socioeconomic and Environmental Determinants on Health and Obesity: A West Virginia Case Study." *Int. J. Environ. Res. & Public Health* 6, 2271-2287.
- Miller, D. and G. D'Souza. 2009. "Plastic Tanks Compare Well to Concrete Tanks in Trout Trial." *Global Aquaculture Advocate*. January/February. pp 53-54.
- Borisova, T., A. Collins, G. D'Souza, M. Benson, M. Wolfe, and B. Benham. 2008. "A Benefit-Cost Analysis of Total Maximum Daily Load Implementation." *Journal of the American Water Resources Association* 44: 1009-1023.
- Miller, D., G. D'Souza, and C. Conklin. 2008. "Using Aquaculture as a Post-Mining Land Use in West Virginia." *Journal of the International Mine Water Association* 27: 122-126.
- Evans, J., M. Sperow, G. D'Souza, and E. Rayburn. 2007. "Stochastic Simulation of Pasture-Raised Beef Production Systems and Implications for the Appalachian Cow-Calf Sector." *Journal of Sustainable Agriculture* 30: 27-51.
- Borisova, T., G. D'Souza, D. Miller, and W. Labys. 2007. "Remaining Competitive at the Regional level: Developing a Local Aquaculture Industry." *J. Aquaculture Econ & Mgmt* 11: 73-98.
- Borisova, T. P. Vantaram, G. D'Souza, D. Miller, and C. Zabriski. 2007. "Web-Based Tool for Economic Analysis of Fish Transportation Decisions." *World Aquaculture* 38: 34-71.
- Brown, C., J. Gandee, and G. D'Souza. 2006. "West Virginia Farm Direct Marketing: A County Level Analysis." *Journal of Agricultural and Applied Economics*, 38: 575-584.
- Bennett, B., G. D'Souza, T. Borisova, and A. Amarasinghe. 2005. "Willingness to Consume Genetically Modified Foods – The Case of Fish and Seafood." *Journal of Aquaculture Economics and Management* 9: 331-345.
- D'Souza, G., D. Miller, K. Semmens and D. Smith. 2004. "Mine Water Aquaculture as an Economic Development Strategy: Linking Coal Mining, Fish Farming, Water Conservation and Recreation." *Journal of Applied Aquaculture*. 15: 159-172.
- Crocker, D. and G. D'Souza. 2002. "Spatial Characteristics of Delisted CERCLIS Sites: An Application and Policy Implications for Brownfields Redevelopment." *Environmental Practice* 4: 19-30.
- Jones, K. and G. D'Souza. 2001. "Trading Poultry Litter at the Watershed Level: A Goal Focusing Application." *Agricultural and Resource Economics Review* 30: 56-65.
- Smearman, S., G. D'Souza, and V. Norton. 1997. "External Costs of Aquacultural Production in West Virginia." *Environmental and Resource Economics*. 10: 167-175.
- Teegerstrom, T., G. D'Souza, P. Osborne, and K. Jones. 1997. "To Contract or Not to Contract? A Decision Theory and Portfolio Analysis of Cattle Contract Grazing." *Agricultural and Resource Economics Review* 27: 205-215.
- D'Souza, G.E. and B.T. Walton III. 1997. "A Guide to Internet Resources in Sustainable Development." *Review of Agricultural Economics*: 19: 122-127.
- D'Souza, G.E. and J. Ikerd. 1996. "Small Farms and Sustainable Development: Is Small More Sustainable?" *Journal of Agricultural and Applied Economics* 28: 73-83.
- Magadlela, A.M., M.E. Dabaan, W.B. Bryan, E.C. Prigge, J.G. Skousen, G.E. D'Souza, B.L. Arbogast and G. Flores. 1995. "Brush Clearing on Hill Land Pasture with Sheep and Goats." *Journal of Agronomy and Crop Sci.* 174: 1-8.

- Fiske, W.A., G.E. D'Souza, J.J. Fletcher, T.T. Phipps, W.B. Bryan, and E.C. Prigge. 1994. "An Economic and Environmental Assessment of Alternative Forage-Resource Production Systems: A Goal-Programming Approach." *Agricultural Systems* 45: 259-270.
- D'Souza, G.E., D. Cyphers, and T.T. Phipps. 1993. "Factors Affecting the Adoption of Sustainable Agricultural Practices." *Agricultural & Resource Economics Review* 22: 159-165.
- Onafowora, O.A., G.E. D'Souza, and D. Colyer. 1990. "Modeling State Agriculture: An Application and Some Implications." *Northeastern Journal of Agricultural & Resource Economics* 19: 132-44.
- D'Souza, G.E. 1990. "The Purchase-Versus-Lease Decision Revisited after the 1986 Tax Reform Act." *Journal of Agribusiness* 8: 59-71.
- D'Souza, G.E., E.W. Maxwell, W.B. Bryan, and E.C. Prigge. 1990. "Economic Impacts of Extended Grazing Systems." *American Journal of Alternative Agriculture* 5: 120-25.
- D'Souza, G.E., A. Hoque, and C.E. Bohac. 1989. "Fuel From Crops: Economic and Environmental Issues." *Journal of Soil and Water Conservation* 44: 274-78.
- D'Souza, G.E., R.F. Romero, and D.K. Smith. 1988. "The Investment Potential of Warm-Season Grasses for Hill-Land Beef Producers." *Northeastern J. of Agri. & Resource Economics* 17: 56-63.
- D'Souza, G.E. 1988. "Structure of the U.S. Soybean Processing Industry in the 1990s." *Agribusiness: An International Journal* 4: 11-23.
- D'Souza, G.E. and T.D. Phillips. 1983. "Spatial Characteristics of the U.S. Soybean Processing Industry." *Midsouth Journal of Economics* 7: 309-17.
- Allen, A.J., G.E. D'Souza, W.L. Bateman, T.D. Phillips, and E.A. Stennis. 1982. "An Analysis of the Tennessee-Tombigbee Waterway....." *Midsouth Journal of Economics* 6: 113-24.

#### **D. On-line Decision Tools:**

- BEFERGYONET (Beef, Energy, NetLogo) Model, Center for Connected Learning and Computer-Based Modeling, Northwestern University, Evanston, IL. 2012: <http://ccl.northwestern.edu/netlogo/models/community/>. Developed by I. Rodriguez, then Ph.D. student, under the direction of G. D'Souza, T. Griggs, and E. Rayburn.
- Rainfall Option Calculator, 2010: <http://www.gatorquant.net/>. Developed by M. Mandal, then Ph.D. student, under the direction of G. D'Souza.
- Pasture-Based Beef Systems for Appalachia: Web-based Beef Cattle Budgeting Tool, 2009: <http://webtest.wvu.edu/users/vkomarne/tanya0725/>. Developed by V. Komarne and T. Borisova, then post-docs, under the direction of G. D'Souza.

#### **E. Proceedings Papers:**

- D'Souza, G. 2013. "A Niche in the Market: Appalachian Pasture-Raised Beef." in *Solution-Led Science*. B. Jimenez-Cisneros and M. Ann Tutwiler, eds. www.researchmedia.eu. Research Media Ltd., Bristol, England. pp 65-67.
- Quevedo, E., G. D'Souza, and J. Evans. 2009. "Market and Financial Feasibility of Greenhouse Products in Queretaro, Mexico." In *Proceedings of the 3<sup>rd</sup> International Workshop on Greenhouse Production Techniques*, Universidad Autonoma de Queretaro, Mexico.

- Baer, A. and G. D'Souza. 2007. "An Economic Assessment of Organic Farming: Implications for Sustainable Development of Rural Areas." In *Proceedings of the International Conference on 21<sup>st</sup> Century Challenges to Sustainable Agri-Food Systems*, Bangalore, India, March 15-17.
- Evans, J. and G. D'Souza. 2006. "Economics of Pasture-Raised Beef: An Application of @RISK and Stochastic Modeling." In *Proceedings of the IASTED International Conference on Environmental Modeling and Simulation*, St. Thomas, US Virgin Islands, November 29-December 1. pp 77-82.
- Bennett, B. and G. D'Souza. 2004. "Consumer Attitudes toward GM Fish: Industry and Policy Implications." In *Proceedings of the IASTED International Conference on Environmental Modeling and Simulation*, St. Thomas, US Virgin Islands, November 22-24. pp 113-116.
- Bendapudi, R. and G. D'Souza. 2000. "U.S. Conservation Policies and Sustainable Development Principles: Consistency or Contradictory?" In *Proceedings, World Congress on Managing and Measuring Sustainable Development*, Aug. [<http://members.home.net/gdufour99/DSouza.html>]
- D'Souza, G.E. 1994. "Toward a Microeconomic Framework for Sustainable Agriculture: Review & Synthesis." In *Sustainable Agr: Conceptual and Methodological Issues*, Symposium Proc., AAEA annual meeting, San Diego, Aug. Publ. by Tenn. State U., Nashville. pp. 11-31.
- D'Souza, G.E., A.M. Vanderpool, A. McCauley, C.M. Gempesaw, and J.R. Bacon. 1994. "Aquaculture Market Development in a Non-Traditional Area: Survey Results and Strategies." In *Proc., 7<sup>th</sup> Int'l Conf. of the International Inst. of Fisheries Econ. & Trade*, Keelung, Taiwan, July 18-21.
- Prigge, E.C., W.B. Bryan, E.S. Goldman, and G.E. D'Souza. 1993. "Early and Late Season Grazing of Hay Fields Overseeded with Red Clover." In *Proc., XVII Int'l Grassland Congress*, pp.663-664.
- Lasat, M., W.B. Bryan, E.C. Prigge, T. Pasha, and G.E. D'Souza. 1990. "Effect of Grazing Height and Intensity on Composition and Productivity of Native Pastures." In *Proceedings of the Amer. Forage Grasslands Conf.*, Blacksburg, VA, 6-9 June. pp. 133-36.

#### **F. Technical Reports and Working Papers:**

- Lies, G., de Salinas, L. S., D'Souza, G. 2016. "Innovative Ventures for Student Mobility of the Americas." 42nd ed., vol. 22, pp. 92-100. Asuncion, Paraguay: *Population and Development*. [[http://revistascientificas.una.py/index.php/RE/article/view/867/pdf\\_165](http://revistascientificas.una.py/index.php/RE/article/view/867/pdf_165)].
- Rodriguez, I., G. D'Souza, and T. Griggs. 2013. "Can Spatial Dependence Enhance Industry Sustainability? The Case of Pasture-Based Beef." Regional Research Institute (RRI) Working Paper #2013-04. West Virginia University. 22 pp. [<http://rri.wvu.edu/wp-content/uploads/2012/11/wp2013-04RodriguezDSouzaGriggs.pdf>].
- Rodriguez, I., G. D'Souza, A Collins, and T. Phipps. 2011. "Social Benefits of Niche Agricultural Products." RRI Research Paper #2011-06. West Virginia University. 30 pp. [<http://rri.wvu.edu/research-2/working-papers-2>].
- Amarasinghe, A. and G. D'Souza. 2010. "Obesity Prevention: A Review of the Interactions and Interventions, and some Policy Implications." RRI Research Paper #2010-2. WVU. 38 pp. [<http://rri.wvu.edu/research-2/working-papers-2>].
- Miller, D. and G. D'Souza. 2008. "Economic Analysis of an Alternative Raceway System." Northeast Regional Aquaculture Center (NRAC) paper. [<http://nrac.umd.edu/Project%20Reports.cfm>].

- Borisova, T., A. Collins, G. D'Souza, M. Benson, M. Wolfe, and B. Benham. 2007. "A Benefit-Cost Analysis of TMDL Implementation." WVU Div of Resource Mgmt RESMWP 07-02. 34 pp.
- Amarasinghe, A., C. Brown, G. D'Souza, and T. Borisova. 2006. "The Impact of County Level Factors on Obesity in West Virginia." RRI Research Paper #2006-14. West Virginia University. 28 pp.
- Amarasinghe, A., G. D'Souza, C. Brown, and T. Borisova. 2006. "A Spatial Analysis of Obesity in West Virginia." RRI Research Paper #2006-13. West Virginia University. 38 pp.
- Amarasinghe, A., G. D'Souza, C. Brown, and H. Oh. 2006. "The Influence of Socioeconomic and Environmental Factors on Health and Obesity in Rural Appalachia." RRI Research Paper #2006-12. West Virginia University. 33 pp.
- Borisova, T., G. D'Souza, B. Benham and E.F. Dukes. 2005. "Developing a Roadmap for Public Involvement in TMDL Implementation Plan (IP) Development: A Review and Synthesis of Literature." WVU Div. of Resource Management RESMWP 05-05. March. 25pp.
- Borisova, T., G. D'Souza, N. Khandelwal, B. Benham, and M.L. Wolfe. 2005. "Analysis of Sediment Reduction Strategies for Abrams Creek Benthic TMDL Using PredICT Software." WVU Division of Resource Management Paper RESMWP-05-06. April. 8pp.
- Evans, J. and G. D'Souza. 2005. "Changes in Water Quality due to Alternative Agricultural Practices and Products." WVU Div. of Resource Management Paper RESMWP-05-07. March. 25pp.
- Borisova, T., G. D'Souza, D. Miller, and C. Zabriskie. 2004. "Optimum Shipment Patterns for West Virginia Aquaculture Products - PART I: Growers." WVU Division of Resource Management Paper RESMWP-04-01. June. 31 pp.
- Borisova, T., G. D'Souza, D. Miller, and C. Zabriskie. 2004. "Optimum Shipment Patterns for West Virginia Aquaculture Products - PART II: Processors." WVU Division of Resource Management Paper RESMWP-04-02. June. 30 pp.
- Baer, Alexander and Gerard D'Souza. 2004. "To Market, To Market, To Sell Some Organic Produce: The Economics of Organic Farming During the Transition Phase." WVU Division of Resource Management Paper RESMWP-04-05. 17 pp.
- D'Souza, G. 2003. *The Agriculture Sector in the US Virgin Islands* – a series of 3 monographs describing production and consumption trends; structural characteristics; and business management tools. Agricultural Experiment Station, University of the Virgin Islands, St. Croix.
- Valencia, E., L.E. Sollenberger, and G. D'Souza. 2002. *Pasture Production and Economics* – a series of 2 monographs describing pasture establishment; and pasture management. Agricultural Experiment Station, University of the Virgin Islands, St. Croix.
- Gandee, J. and G. D'Souza. 2002. "Agriculture in the West Virginia Economy." Div of Reso. Mgmt., West Virginia University. [<http://www.caf.wvu.edu/gdsouzawww/agricultureinWVeconomy.pdf>].
- Godfrey, R.W. and G.E. D'Souza. 2001. "Hair Sheep Production in the US Virgin Islands: Management Practices and Economic Analysis." Agr Expt. Sta. Bulletin. Univ of the Virgin Islands, St. Croix.
- San, N., D. Miller, G. D'Souza, D. Smith, and K. Semmens. 2001. "West Virginia Trout Enterprise Budgets." Version 2. Pub. #AQ01-1. WVU Extension Service, Morgantown, WV.

- Crocker, D., G. D'Souza, T. Phipps, and P. Schaeffer. 1998. "Role of Brownfields in Sustainable Land Use: A Spatial Econometrics Approach." R.M. Publication No. 98-03, Division of Resource Management, WVU, Nov. [<http://www.geocities.com/CapitolHill/6338/bfields.html>].
- Jones, K., G. D'Souza, A. Collins, T. Phipps, and D. Bhumbra. 1998. "Trading Poultry Litter at the Watershed Level in West Virginia: A Goal Focusing Application." R.M. Publication No. 98-01, Division of Resource Management, West Virginia University, April.
- D'Souza, G.E. 1997. "Sustaining West Virginia Agriculture in a Changing Environment." *1996 Annual Report*, W.Va. Agr. & For. Expt. Sta., Morgantown. p. 22.
- D'Souza, G.E. and B. Walton. 1996. "A Guide to INTERNET Resources in Sustainable Development." ARE Program, Division of Resource Management, West Virginia University, Version 4, May 3.
- D'Souza, G.E. 1995. "Environmental Quality and Natural Resource Use in West Virginia: A Summary of Research in Sustainability." *1994 Annual Report*, WV Agr. & For. Expt. Sta. pg.12-14.
- D'Souza, G., A. Vanderpool, A. McCauley, C. Gempesaw, II, and J. Bacon. 1993. "The Marketing Potential of Aquaculture Products in WV: A Survey of Consumer, Restaurateur, and Wholesaler Attitudes. R.M. Pub. 93-01, Div. of Reso. Mgmt., West Virginia Univ, July.
- D'Souza, G.E. 1993. "A Market Assessment of the Fertilizer By-Product from E-Beam Flue Gas Desulfurization." Proj. report, Science Applications International Corp, McLean, VA.
- D'Souza, G.E. and D. Cyphers. 1993. "Sustainable Agriculture Adoption: Effects of Groundwater Contamination and Other Factors." *1992 Ann. Report*, WV Agr. & For. Expt. Sta. p.7.
- Collins, A.R., D.A. Fritsch, G.E. D'Souza, and R.G. Diener. 1992. "The Economics of Composting Poultry Litter." Coop. Extn. Svc. Report, WVU, August.
- D'Souza, G.E. 1991. "Towards a Framework for the Microeconomic Analysis of Sustainable Agriculture." R.M. Pub. 91\_12, Div. of Reso. Mgmt., WVU, December.
- Cyphers, D., G.E. D'Souza and T.T. Phipps. 1991. "Alternative Agriculture Adoption: Effects of Ground Water Contamination and Other Factors." R.M. Pub. 91-11, Div. of Reso. Mgmt., WVU, Dec.
- D'Souza, G.E. 1991. "The Aquaculture Alternative for Cool, Hill Country." R.M. Pub. 91/5, WVU, Aug.
- D'Souza, G.E. 1990. "The Purchase-Versus-Lease Decision: A Model, an Illustration, and the Impacts of Tax Policy." R.M. Pub. 90/5, Div. Reso. Mgmt., WVU, May.
- Onafowora, O.A., D. Colyer and G.E. D'Souza. 1990. "Impacts of External Factors on WV Agriculture: A Disaggregated Econometric Analysis." R.M. Pub. 90/3, Div. Reso. Mgmt., WVU, April.
- D'Souza, G.E. and E.W. Maxwell. 1989. "Impacts of Extending the Grazing Season on Beef Cow/Calf Profitability in West Virginia." *1988 Annual Report*, W. Va. Agr. & For. Expt. Sta., Morgantown. 66. (Co-author of other reports in same publication, pp. 20-21; 22-23; 51-52; 55-56; and 58).
- D'Souza, G.E., M.B. Materu, D.K. Smith, A. Hoque, and G.W. Zinn. 1988. "Agriculture in the Economic Development of WV: An I-O Analysis." Misc. Pub. 20. WV Agr. & For. Expt. Sta., April.

- D'Souza, G.E. 1986. "Alternatives in Financing Assets: The Business and Personal Purchase Versus Lease Decision." Misc. Pub. 18. WV Agr. & For. Expt. Sta., Morgantown, December.
- D'Souza, G.E. and D.K. Smith. 1986. "Model for Evaluating the Economic Potential of Warm-Season Grasses for Livestock Feeding." *Annual Report*, WV Agr. & For. Expt. Sta., Morgantown. 29-32.
- D'Souza, G.E. and G.V. Eagan. 1986. "Evaluating the Financial Health of Your Farm." Extension Fact Sheet 201. W. Va. Coop. Extn. Svc., Morgantown, October.
- D'Souza, G.E. and J.H. Clarke. 1986. "Agriculture in the West Virginia Economy." Misc. Pub. 16. W. Va. Agr. & For. Expt. Sta., Morgantown, October.
- D'Souza, G.E., T.D. Phillips, and W.J. Free. 1984. "The U.S. Soybean Processing Industry: Optimum Size, Number and Location." TVA Bul. Y193, Southern Coop. Series Bul. 312, Jan. 1986. (Related paper on this topic by same authors: Agr. Econ. staff paper 65, Miss. State, February).
- D'Souza, G.E. and C.E. Bohac. 1985. "Agricultural Fuel Crops: 201-County Tennessee Valley Region - Policy Assessment." TVA/ONRED/AWR-85/10. Chattanooga, TN, October.
- Madewell, C.E., G.E. D'Souza, Y. Esensoy, J. Broder and G.S. Simpson. 1983. "Agricultural Fuel Crops: 201-County Tennessee Valley Region." Circ. Z-158. TVA, Muscle Shoals, AL, December.
- D'Souza, G.E., A.J. Allen, W.L. Bateman, T.D. Phillips, and E.A. Stennis. 1980. "The Impact of the Tennessee-Tombigbee Waterway System on the Mississippi Grain Economy." Agr Econ Staff Paper 49, Miss. State Univ., September. (Related papers: AEC Tech. Pub. 24 & Staff Paper #58).

**G. Conference Papers:**

- Shultz, C. and G. D'Souza (presenter). "Fresh Water: A Global Perspective." Invited presentation, 4<sup>th</sup> International Congress on Environmental Quality and Sustainability, Faculty of Economic Sciences, Universidad Nacional de Asuncion (UNA), Paraguay, October 16, 2014.
- D'Souza, G. "Economic Models and Perspectives on Sustainable Development." Invited presentation, 3<sup>rd</sup> International Congress on Environmental Quality and Sustainability, Faculty of Economic Sciences, Universidad Nacional de Asuncion (UNA), Paraguay, October 1, 2013.
- Quevedo Martinez, E., G. D'Souza and J. Evans. "Market and Financial Feasibility of Greenhouse Products in Queretaro, Mexico." Presented at the 3<sup>rd</sup> National Workshop on Greenhouse Production, University Autonoma de Queretaro, Mexico, October 29, 2009.
- Evans, J., G. D'Souza, C. Brown, A. Collins, E. Rayburn, and M. Sperow. "Determining Consumer Perceptions of and Willingness to Pay for Appalachian Grass-Fed Beef: An Experimental Economics Approach." Selected paper, presented at the American Agricultural Economics Association annual meeting, Orlando, FL, July 27-29, 2008.
- Miller, D. and G. D'Souza. "Economic Analysis of an Alternative Raceway System." Selected paper, annual meeting of the US Trout Farmers Association, Milwaukee, WI, Sept 17-20, 2008.
- Collins, A., M. Benson, T. Borisova, and G. D'Souza. "An Economic Valuation of Improved Water Quality in Opequon Creek." Selected paper, presented at the 8<sup>th</sup> annual Mid-Atlantic NPS/TMDL/WQM training workshop, Ocean City, MD, May 21, 2007.



- Baer, A. and G. D'Souza. "An Economic Assessment of Organic Farming: Implications for Sustainable Development of Rural Areas." Selected paper, presented at the International Conference on "21st Century Challenges to Sustainable Agri-Food Systems, Biotechnology, Environment, Nutrition, Trade and Policy, Bangalore, India, March 15-17, 2007.
- Semmens, K., Y-H Wang, R. Turton, T. Borisova, G. D'Souza, and D. Miller. "Application of a Raceway Design Simulation System...in WV." Selected paper, presented at the Aquaculture America annual meeting, San Antonio, TX, February 26 – March 2, 2007.
- Collins, A., M. Benson, T. Borisova, and G.D'Souza. "Differences among Watershed Sub-Populations in Willingness to Pay for Water Quality Improvements: The Impact of TMDL Development." Selected paper, presented at the AAEE annual meeting, Long Beach, CA, July 26, 2006.
- Amarasinghe, A., G. D'Souza, C. Brown, and T. Borisova. "A Socio-Economic and Spatial Analysis of Obesity in Appalachia." Selected paper, presented at the American Agricultural Economics Association annual meeting, Long Beach, CA, July 26, 2006.
- Collins, A., M. Benson, T. Borisova, and G. D'Souza. "The Impact of Watershed Location and TMDL Development on Willingness to Pay for Water Quality Improvements." Selected paper, presented at the Northeast Agricultural Economics Assoc. annual meeting, Mystic, CT, June 11-14, 2006.
- Borisova, T., M. Benson, A. Collins, G. D'Souza, and B. Benham. "Benefits From Improved Water Quality: An Economic Valuation Study on the Opequon Watershed, WV & VA", Selected paper, presented at the USDA-CSREES Natl. Water Conference, San Antonio, TX, February 5-9, 2006,
- D'Souza, G. and A. Baer. "To Market, To Market, To Sell Some Organic Products: An Economic Assessment of Organic Farming." Selected paper, presented at the 15<sup>th</sup> IFOAM Organic World Congress, Adelaide, Australia. Sept 20-23, 2005. (Published in conference proceedings).
- Amarasinghe, A., G. Gebremariam, G. D'Souza, and T. Phipps. "A Dynamic Optimization Approach in Evaluating Investment Benefits for Wetlands Restoration." Selected paper, NAREA annual meeting, Annapolis, MD, June 12-15, 2005. Abstract: *Agr & Reso Econ Review* 34(2005): 285.
- Bennett, B. and G. D'Souza. "Willingness to Consume Genetically Modified Fish: Industry and Policy Implications." Selected paper, accepted for presentation at the World Aquaculture Society annual conference, Bali, Indonesia, May 9-13, 2005.
- Borisova, T., K. Semmens and G. D'Souza. "Economic Analysis of Production of Female Green Sunfish x Male Bluegill Hybrids in WV." Selected paper, presented at the Aquaculture America conference, New Orleans, LA, January 17-20, 2005.
- Miller, D., K. Semmens and G. D'Souza. "Trout Culture as a Post-Mining Land Use in WV: A Case Study." Selected paper, Aqua America conference, New Orleans, January 17-20, 2005.
- D'Souza, G. and D. Miller. "Economics of Mine Water Aquaculture." Selected paper, presented at the Amer. Society of Mining & Reclamation annual meeting, Morgantown, WV, April 20-22, 2004.
- Evans, J., G. D'Souza, M. Sperow, and E. Rayburn. "An Economic Analysis of Pasture-Raised Beef Systems in Appalachia." Selected paper, accepted for presentation at the American Agricultural Economics Association annual meeting, Denver, CO, August 1-4, 2004.
- Borisova, T., G. D'Souza, D. Miller, and C. Zabriskie. "A Geographic Analysis of the Marketing Strategies for the WV Aquaculture Industry." Selected paper, presented (by co-author) at the SOFOR GIS Conference, Athens, GA, December 16-17, 2004.

- Bennett, B. and G. D'Souza. "Consumer Attitudes toward GM Fish: Industry and Policy Implications." Selected Paper, presented at the IASTED International Conference on Environmental Modeling and Simulation, St. Thomas, US Virgin Islands, November 22-24, 2004.
- Gandee, J., C. Brown and G. D'Souza. "A Spatial and Demographic Analysis of Farm Direct Marketing." Selected paper, accepted for presentation at the International Food and Agribusiness Management Association annual conference, Montreux, Switzerland, June 12-15, 2004.
- Evans, J. and G. D'Souza. "The Economics of Pasture-Raised Beef in the US: Implications for Industry, Trade, and Biotechnology." Selected paper, accepted for presentation at the International Consortium on Agricultural Biotechnology Research, Ravello, Italy, July 8-11, 2004.
- Gandee, J., C. Brown, and G. D'Souza. "A Spatial and Demographic Analysis of Direct farm Marketing: Industry and Policy Implications." Selected Paper, 14<sup>th</sup> annual International Food & Agribusiness Management assoc. (IAMA) annual conference, Montreux, Switzerland, June 12-15, 2004.
- Gandee, J., G. D'Souza, and C. Brown. "The Role of Spatial and Demographic Characteristics in Direct Farm Marketing: An Econometric Approach." Selected paper, American Agricultural Economics Association annual meeting, Montreal, Canada, July 27-30, 2003.
- Bennett, B., G. D'Souza, R. Rosenberger and D. Smith. "Genetically Modified Fish and Seafood: Consumer Attitudes, Marketing Strategies & Policy Implications." Selected Paper, 7<sup>th</sup> Int'l Conf on Public Goods & Public Policy for Ag Biotechnology, Ravello, Italy, June 29-July 3, 2003.
- D'Souza, G., D. Miller, K. Semmens, and D. Smith. "Mine Water Aquaculture as an Economic Development Strategy..." Selected paper, special session on the Economic Impacts of Aquaculture at the Aquaculture America conference, Louisville, KY, February 2003.
- Bendapudi, R., G. D'Souza and A. Collins. "The Impact of Urbanization on Land Use Decisions and Sustainability: The Case of the Conservation Reserve Program." Selected paper, presented (by co-author) at the NAREA Land Use Policy Workshop, Camp Hill, PA, June 11-13, 2002.
- Godfrey, R. and G. D'Souza. "Development of an Enterprise Budget for Hair Sheep Production in the US Virgin Islands." Selected paper, presented at the American Society of Animal Science, Northeast section annual meeting, Baltimore, MD, July 24 - 28, 2000.
- Crocker, Donald and G. D'Souza. "Spatial Characteristics of Brownfields: Implications for Sustainable Land Use." Selected paper, NAREA annual meeting, Morgantown, WV, June 27-29, 1999. (Abstract in *Agr. & Reso. Econ. Rev.* 28(1999): 235).
- Jones, K. and G. D'Souza. "Trading Poultry Litter at the Watershed Level: A Goal Focusing Application." Selected paper, AAEA annual meeting, Salt Lake City, UT, August 2-5, 1998. (Abstract in *Amer. J. Agr. Econ.* 80(1998): 1188).
- Smearman, S.C., G.E. D'Souza, and V.J. Norton. "External Costs of Aquaculture Production: An Application to West Virginia." Selected paper, presented at NAREA annual meeting, Sturbridge, MA, June 22-24, 1997. (Abstract in the *Agr. & Reso. Econ. Rev.* 27(1997): 261)
- D'Souza, G.E. and T. Teegerstrom. "Contract Grazing of Beef Cattle: A Decision Theory and Portfolio Analysis." Presented at EUNITA Seminar, "Risk Management Strategies in Agriculture: State of the Art and Future Perspectives," Wageningen, The Netherlands, January 7-10, 1996.

- D'Souza, G. and J. Ikerd. "Small Farms and Sustainable Development: Is Small More Sustainable?" Invited paper, presented at the SAEA annual meeting, Greensboro, N.C., February 3-7, 1996.
- Smearman, S.C., L.A. Blanciforti, G.E. D'Souza, and C.M. Gempesaw. "Consumer Preferences for Farm-Raised Trout: An Application to West Virginia." Selected paper, NAREA annual meeting, Newark, DE, June 27-29, 1994. (Abstract in the *Agr. & Reso. Econ. Rev.* 23(1994): 249).
- Teegerstrom, T. and G.E. D'Souza. "Contract Grazing of Beef Cattle: A Decision Theory/Portfolio Comparison." Selected paper, AAEA annual meeting, San Diego, Aug. 7-10, 1994. (Abstract in the *Amer. J. Agr. Econ.* 76(1994): 1263).
- D'Souza, G.E. "Toward a Microeconomic Framework for Analyzing Sustainable Agriculture: A Review and Synthesis." For symposium, "Sustainable Agriculture: Conceptual and Methodological Issues," Amer. Agr. Econ. Assoc. annual meeting, San Diego, Aug. 7-10, 1994.
- Bryan, W.B., E.C. Prigge, D. Flaherty, and G.E. D'Souza. "Buffer Grazing in the Appalachian Hills." Selected poster, Int'l Grassland Congress, New Zealand and Australia, Feb. 1993.
- Cyphers, D. and G.E. D'Souza. "Alternative Agriculture Adoption: Effects of Ground Water Contamination and Other Factors." Amer. Agr. Econ. Assoc. annual meeting, Baltimore, MD, Aug. 9-12, 1992. (Abstract in the *Amer. J. Agr. Econ.* 74 (1992): 1304).
- Shang, J., G.E. D'Souza, and V.J. Norton. "An Estimation of Geographic Differences in Beef Cattle Supply Response." Amer. Agr. Econ. Assoc. annual meeting, Baltimore, MD, Aug. 9-12, 1992. (Abstract in the *Amer. J. Agr. Econ.* 74 (1992): 1304).
- D'Souza, G.E., V. J. Norton, and J. Shang. "Geographic Differences in Beef Cattle Supply Response: An Alternative Approach." Selected poster, accepted for presentation at the XXI International Conf. of Agr. Economists, Tokyo, Aug. 22- 29, 1991.
- D'Souza, G.E. "Production Economics in the Sustainability Era." Symposium, NAREA annual meeting, New Hampshire, June 17-19, 1991. (Abstract in the *NE J. Agr. & Res. Econ.* 20(1991): 214).
- D'Souza, G.E. "The Purchase-Versus-Lease Decision Revisited after the 1986 Tax Reform Act." Midwest Business Econ. Assoc. annual meeting, Chicago, IL, Apr. 3-5, 1991.
- Bryan, W.B., E.C. Prigge, and G.E. D'Souza. "A Comparison of Conventional and Innovative Systems for Beef Cow/Calf Production." Selected paper, presented (by a co- author) at the N.E. Branch meetings of the American Society of Agronomy, Durham, NH, July 8-11, 1990.
- D'Souza, G.E. "The Purchase-Versus-Lease Decision: A Model, an Illustration, and the Tax Policy Impacts." Southern Reg. Sci. Assoc. annual meeting, Washington, D.C., Mar. 22-24, 1990.
- D'Souza, G.E. "Fuel from Crops: Economic Issues and Potential Environmental Impacts." Southern Regional Sci. Assoc. annual meeting, Chapel Hill, NC, Apr. 27-29, 1989.
- D'Souza, G.E. "Development of Water Supply Sources for Livestock: The Economic Framework." Workshop on pasture management, Jackson's Mill, WV, Nov. 15, 1988.
- D'Souza, G.E., D.K. Smith, and R.F. Romero. "An Economic Analysis of Alternative Beef-Cattle Grazing Systems." Amer. Agr. Econ. Assoc. annual meeting, Knoxville, TN, July 31 - Aug. 3, 1988. (Abstract in the *Amer. J. Agr. Econ.* 70(1988): 1185).

- Maxwell, E.W., G.E. D'Souza, W.B. Bryan, and E.C. Prigge. "Economics of Four Grass Meadow Production Systems for Beef Cow/Calf Enterprises." Presented by a co-author at the American Society of Agronomy, N.E. Branch annual meeting, West Virginia University, June 26-29, 1988. (Abstract in the *N.E. Branch Amer. Soc. Agron. Abstr.* (1988): 6).
- D'Souza, G.E., D.K. Smith, and M.B. Materu. "Agriculture and Economic Development of WV: An Input-Output Analysis." SRSA annual meeting, Morgantown, WV, Apr. 14-16, 1988.
- D'Souza, G.E. and A. Hoque. "Renewable Energy Sources: Economic and Environmental Issues, and Policy Alternatives." International Atlantic Economic Conference, Boston, Aug. 28-31, 1986.
- D'Souza, G.E. and T.D. Phillips. "Interregional Competition in Soybean Processing in the 90s." Selected paper, SAEA annual meeting, Biloxi, MS, Feb. 4-6, 1985. Abstract in the *SJAE* 17(1985): 202.
- D'Souza, G.E. and T.D. Phillips. "Spatial Characteristics of the U.S. Soybean Processing Industry." Midsouth Academy of Economists annual meeting, Jackson, MS, Feb. 17-19, 1983.
- D'Souza, G.E., A.J. Allen, W.L. Bateman, T.D. Phillips, and E.A. Stennis. "Impact of the Tennessee-Tombigbee Waterway System on the Mississippi Grain Economy." Southern Agr. Econ. Assoc. annual meeting, Atlanta, GA, Feb. 1-4, 1981. (Abstract: *Southern J. Agr. Econ.* 13(1981): 173).

## GRANTS & CONTRACTS

- 2014-16: "Innovative Ventures for Student Mobility in the Americas." Partners of the Americas Foundation and Santander Bank, under President Obama's 100,000 Strong in the Americas Innovation Fund. \$24,500. PI (with L. Rosa, UNA, Paraguay, and George Lies, WVU-IP). [Study abroad related].
- 2012-15: "E\*Quad Energy Entrepreneurship Program." Claude Worthington Benedum Foundation. \$159,000. Co-PI (with F. Holehouse). [Teaching-related grant].
- 2000-13: "Pasture-Based Beef Systems for Appalachia: Systems Analysis." USDA-ARS, Multi-state cooperative research agreement. Project Co-PI (since July 2011). \$4.6 million in total project funding, including \$534,797 in 2011-12 funding.
- 2008-11: "Integrating tropical legumes with condensed tannins into ruminant grass-based diets for sustainable production." USDA, SARE. Co-investigator (with E. Valencia, PI). \$81,000.
- 2008-10: "Aquaculture Product and Marketing Development." USDA, CSREES. Co-Investigator (with K. Semmens, PI). Cumulative project funding: \$486,145.
- 2007-09: "West Virginia - Queretaro Partnership for Greenhouse Technology for Rural Semiarid Regions of Mexico." USAID-HED. Co-investigator (with V. Mucino, PI). \$64,837 funding for my task.
- 2006-10: "Effective Strategies for Reducing Nutrient Loads from the Opequon Watershed." National Fish and Wildlife Foundation (sub-contract through Va Tech, C. Heatwole, Project Coordinator). PI/PD for WVU. \$1 million total funding (\$100,542 to WVU).
- 2006-08: "Economic Analysis of an Alternative raceway Material." Northeastern Regional Aquaculture Center. PI/PD (with D. Miller, co-PI). \$73,996. [US Patent awarded to co-PI Miller in 2010].

- 2005: "Public Participation in Watershed Management and the TMDL Process." Mid-Atlantic Regional Water Quality Project (through U. of MD). PI/PD (T. Borisova *et al.*, co-PIs). \$30,000.
- 2003-06: "Aquaculture Systems Analysis: Models, Applications, and Implications..." Canaan Valley Institute research grant. PI/PD (with D. Miller, co-PI). \$122,030.
- 2002-09: "Mid-Atlantic Water Quality Coordination Project." USDA, CSREES (sub-contract through Univ. of Maryland). Co-PI (with Tom, Basden, PI). \$100,000.
- 2002-05: "Comparison of Organic Farming Systems Using Off-Farm Nitrogen with and without Animals." USDA-SARE Grant. Co-PI (with J. Kotcon, PI). \$149,968.
- 2002-03: Mid-Atlantic Greenhouse and Nursery Survey. Farm Credit of the Virginias. Co-PI (with D. Smith and S. Verlinden). \$20,000.
- 2002-05: "Vegetation Management Effects on Ecological and Economic Stability of Tree Crop-Livestock Systems." USDA/T-STAR Tropical-Sub-Tropical Agriculture Research project. Economics consultant to project (E. Valencia and C. Ramcharan, PIs). \$8,000 during '03-04 to RM Division.
- 2001-02: West Virginia Farm Management Risk Management Assessment. WV Dept of Agriculture. Co-investigator (with T. McConnell, PI). \$7,000 for FY 02 to Div of Resource Management.
- 1999-02: "Transition Methods to Convert from Conventional to Organic Agricultural Systems." USDA NRI-CGP Agricultural Systems Program. Co-investigator (with J. Kotcon, PI). \$103,329.
- 1999-02: "Systems of Transition from Conventional to Organic Agricultural Production." USDA-SARE Grant. Cooperator (with J. Kotcon, Project Coordinator). \$217,247.
- 1998-01: "Aquaculture Food and Marketing Development Project." USDA-CSREES Special Grant. Co-investigator (with K. Semmens, PI). Cumulative project funding: \$2.7 million.
- 1998-01: "Cow-Calf Production Systems in Appalachia." USDA NRI-CGP Agricultural Systems Program. Co-PI (with W. Bryan, E. Prigge, and E. Rayburn). \$210,000.
- 1993-94: Co-investigator (with John Holmgren, PI) of an \$86,353 contract from Science Applications International Corp., McLean, VA for research on "E-Beam Scrubbing of Industrial Flue Gases."
- 1988-93: Co-investigator (with W. Bryan and E. Prigge) of a grant from the USDA/SARE program for pasture research. Cumulative funding: \$91,664.
- 1992-93: Co-PI (with A. Vanderpool) of a \$3,615 grant from the WVU Extn. Svc. and the Conservation Fund's Freshwater Inst. (through U. of Delaware) for aquaculture market research.
- 1991-92: \$6,000 scholarship from the Wallace Institute for Alternative Agriculture (near Washington, D.C.) to conduct research on conceptual issues pertaining to the economics of sustainability.
- 1983-84: PI of a \$40,000 one-year personal services contract from the Tennessee Valley Authority for work on a renewable energy and a grain marketing research project.

## **OTHER RESEARCH PROJECTS**

2010-15: State Project WV 623, "Niche Products: Feasibility, Sustainability, and Implications for WV." PI (co-investigators: C. Brown, T. Gebremedhin, and B. Maumbe).

2005-10: Regional Project NC1033 - "Influence of Food Environments on Food Patterns and Population Health." Co-investigator for West Virginia (with C. Brown and C. Fitch).

2004-09: State Project #WV 447 - "Productivity, pest management and soil quality in organic farming systems." Co-investigator (with J. Kotcon, PI).

2004-05: "Obesity, Technology, and Policy: Exploring the Connections and Implications for Sustainable Development of Appalachia." WVU Regional research Institute. \$10,000 award.

2002-07: Regional Project NE-1012 (WV 425): "Sustaining Local Food Systems in a Globalizing Environment: Forces, Responses, Impacts." Co-investigator for West Virginia (with C. Brown).

1999-05: State Project #WV 411, "Implications of the New Agriculture for West Virginia." Principal Investigator (co-investigators: A Collins, J. Fletcher, T. Phipps, K. Semmens, & D. Smith).

1997-02: Regional Project #NE-185 (WV 395), "Commodities, Consumers, and Communities: Local Food Systems in a Globalizing Environment." Co-investigator for West Virginia (with D. Smith).

1994-99: State project WV 375, "Conceptual & Empirical Investigations into Sustainability with Implications for WV Agriculture." PI (co-investigators: J. Fletcher and T. Phipps).

1991-96: State project WV 353, "Increasing the Productivity of Forage-Livestock Systems." Co-PI (with W. Bryan and E. Prigge).

1991-92: Co-PI (with A. Collins) of a six-month, \$13,496 grant from the WV Cooperative Extension Service to conduct a poultry-litter composting feasibility study for WV.

1989-94: State project WV 339, "Technology, Profitability and Ecology: Interactions at the Farm Level and Implications for WV Agriculture." PI (co-investigators: J. Fletcher and T. Phipps).

1984-89: State project WV 298, "Economics of Beef and Sheep Production Systems in West Virginia." P.I. beginning in July 1984 (original PI: R.O. Burton, Jr.).

## **COURSES TAUGHT**

- Undergraduate: *Introductory Agricultural & Agribusiness Economics* (currently); *Agribusiness Finance* (currently); *Introductory Econometrics*; *Freshman Orientation*; *Farm Planning*; *Farm Management*; *Aquaculture Seminar*; *WV Agribusiness Travel Course*; *Paraguay Study Abroad*.
- Graduate: *Advanced Production Seminar*; *Production Economics*; *Quantitative Methods*.

## **MENTORSHIP**

- Faculty Advisor: Sigma Alpha, Professional Agricultural Sorority, 60 WVU students, 2016 – current.
- Professional Association (NAREA), CAM (Career Advancement & Mentorship) mentor to an assistant professor from Univ of Maine, 2015-16.

## NEW CURRICULUM DEVELOPMENT

*E\*Quad* (Energy, Environment, Economics, and Entrepreneurship): BS degree program, co-developed in 2013 with Prof. Fonda Holehouse, funded by a \$159,000 grant from the Claude Worthington Benedum Foundation. <http://resourceeconomics.wvu.edu/r/download/170155>

## COMMITTEES AND SERVICE

- Student committees: Chair(ed) over 40 M.S. and Ph.D. graduate student committees, and serve(d) as a member on over 50 others [a 1997 MS thesis directed was selected by the ARE program for Honorable Mention; and three theses directed (1998, 2003, 2004) were selected as Outstanding MS Theses]. Also advise undergraduate students, and initiated a WVU undergraduate student club (APICS, Operations Management Society), and serve as its Faculty Advisor.
- Graduate Program Coordinator, WVU ARE Program, 1995-99: responded to inquiries; coordinated application reviews and GRA offers; assisted in recruiting; served as advisor to all incoming students.
- Committees Chaired: WVU Senate Library Committee for 1999-2000 (appointed); Division Promotion & Tenure committee for 1999-2000; 2006-07; 2007-08 (elected); Davis College Promotion & Tenure committee for 2000-01; 2008-09; 2012-13 (elected); Davis College Information & Technology committee for 2000-01 (appointed); and Division Curriculum committee for 2005-09 (appointed).
- Committee memberships: Professional association (Sigma Xi, Gamma Sigma Delta; Association for Environmental Studies & Sciences; Northeastern Agricultural & Resource Economics Association); dean search; faculty search; course and curriculum committees; international programs advisory committee; steering committees; and external evaluator for promotion and tenure. Also served as a reviewer for several refereed journals; funding agencies; and book publishers including Harcourt, Greenwood, Prentice-Hall, Thompson/South-Western, and Routledge.
- Community service: volunteer in Habitat for Humanity, Literacy Volunteers, and local watershed groups; assisted with flood recovery efforts and Special Olympics; elected to County Council of Schools; and career guest lecturing to area grade schools.

## EDITORIAL BOARDS

- *The Scientific Pages of Agricultural Technologies*, 2016 – current.
- *Poblacion y Desarrollo (Population and Development)*, 2016 – current.
- *Agricultural and Resource Economics Review*, 1993-96

## INTERNATIONAL EXPERIENCE

- Personal or business visits to Latin America (Mexico and Costa Rica); the Caribbean (U.S. Virgin Islands; Puerto Rico); Asia & Middle East (India & Dubai); Europe (Italy; Netherlands; Great Britain; Germany); and the South Pacific (Australia; New Zealand; W. Samoa; Hawaii).
- Initiated an International Academic Exchange Program between WVU and UNA, Paraguay, 2014 – current.

## AWARDS AND HONORS

- Fellow, *Agricultural & Resource Economics Review*, 2014
- Invited scholar, Centro de Análisis e investigación en Gestión Ambiental y Social (Center for the Analysis and Investigation of Environmental and Social Management), Universidad Nacional de Asuncion, Paraguay, 2014.
- Fulbright Senior Specialist, Paraguay, October 2013.
- Faculty advisor, APICS (Association for Operations Management), WVU student chapter, 2011.
- Gamma Sigma Delta Outstanding Service Award, 2006-07.
- Inducted into Sigma Xi, Scientific Research Society, 2004.
- Outstanding Research Award, Division of Resource Management, West Virginia University, 2003-04.
- Member, Northeastern Agricultural & Resource Economics Association Board of Directors, 2000-03 (elected position).
- President, Gamma Sigma Delta, Agricultural Honor Society, WVU Chapter, 2001.
- Gamma Sigma Delta Senior Faculty Certificate of Merit, 2000.
- Member, WVU Faculty Senate, 1998-01 (elected position), re-elected for 2005-08; and member, Senate Executive committee, 2000-01 (elected position).
- Selected as one of two participants from the WVU Davis College in the annual U.S. Land Grant University ESCOP/ACOP Leadership Development Program, 2001-02.
- Served on USDA NRI competitive grants review panels, 1998 and 2000.
- Outstanding Teaching Award, WVU Division of Resource Management [20 faculty], 96-97 and 97-98.
- Invited speaker, Alpha Tau Alpha Spring Symposium, 1998.
- Honorary FFA Member, 1998.
- Who's Who in America; Who's Who in American Finance and Industry; Who's Who in the World; and International Directory of Distinguished Leadership, 9<sup>th</sup> (millenium) edition.
- The *Science Guide's* "4 Test Tube Award" for excellence in scientific web publishing, 1997.
- Member, EU-Pacific Region Agricultural Project Expert Data Working Group for South Pacific region, 1995.
- Who's Who Among Students in American Universities and Colleges, 1983-84.
- Outstanding Doctoral Student Award, Dept. of Agricultural Economics, Miss. State University, '82-83.