

KATHRYN ARANO GAZAL

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EDUCATION

Ph.D. in Forest Economics and Management, Mississippi State University, Mississippi State, Mississippi, 2003.
Minor: Agricultural Economics
Dissertation: An Analysis of Forestry Investment Behavior of Nonindustrial Private Forest Landowners in Mississippi

M.S. in Forest Resources Management, University of the Philippines, Los Banos, Laguna, Philippines, 1998.
Minor: Environmental Science
Thesis: Economic Valuation of the Callao Caves National Park, Philippines

B.S. in Forestry, University of the Philippines, Los Banos, Laguna, Philippines, *Magna cum laude*, 1995.

PROFESSIONAL EXPERIENCE

Associate Professor, Forest Economics
West Virginia University, Morgantown, West Virginia, August 2010-present.

Assistant Professor, Forest Economics
West Virginia University, Morgantown, West Virginia, 2004-2010.

Postdoctoral Research Associate
Mississippi State University, Mississippi State, Mississippi, January-August 2004.

Graduate Research Assistant
Mississippi State University, Mississippi State, Mississippi, 1999-2003.

Guest Lecturer, International Forest Resource and Trade
Mississippi State University, Mississippi State, Mississippi, Fall 2003.

Research Fellow
Political Economy Research Center, Bozeman Montana, May-August, 2002.

Teaching Associate
University of the Philippines, Los Banos, Laguna, Philippines, 1995-1998.

Volunteer Worker, Survey on Wood Supply and Demand, Philippines
Orient Integrated Development Consultants, Inc., Manila, Philippines, 1994.

PUBLICATIONS

Refereed Journals

- Arano, K.G., Velikova, M. and **K.A. Gazal**. 2018. "Marcellus Shale play and the cointegration of natural gas markets in the Northeast", *International Journal of Energy Sector Management*, <https://doi.org/10.1108/IJESM-08-2017-0006>
- Fegel, T., D. McGill, **K. Gazal**, and D. Smaldone. 2018. Educational Preferences of West Virginia's Female Woodland Owners. *Journal of Extension*, [Online], 56(1) Article 1RIB3. Available at: <https://www.joe.org/joe/2018february/rb3.php>.
- Deng, J., **K.A. Gazal**, and S. Selin. 2017. Visitor impact estimates of Garrett County, MD. *Tourism Analysis* 22: 105-111.
- Gazal, K.A.**, I. Montague, R. Poudel and J. Wiedenbeck. 2016. The forest products industry in a digital age: factors affecting social media adoption. *Forest Products Journal* 66(5/6):343-353.
- Montague, I., **K.A. Gazal**, J. Wiedenbeck, and J. Shepherd. 2016. The forest products industry in a digital age: a look at ecommerce and social media. *Forest Products Journal* 66(1-2):49-57.
- Andrada, R., J. Deng, and **K.A. Gazal**. 2015. Exploring people's preferences on specific attributes of urban forests in Washington DC: A conjoint approach. *Journal of Horticulture and Forestry* 6(4): 200-209.
- Gazal, K.A.** and J. Wang. 2013. Export activities of central Appalachian hardwood products industry: the case of West Virginia. *Forest Products Journal* 62(7/8):607-612.
- McCuen, M.E., McGill, D.W., **Arano, K.G.** and S.F. Owen. 2013. West Virginia woodland welcome wagon: design, implementation, and evaluation in three priority areas. *Journal of Extension* (51(4), Article # 4RIB5
- Arano, K.G.** and B. Spong. 2012. Electronic commerce adoption in the hardwood industry. *Journal of Extension* 50(6), Article # 6HRIB4.
- Dhami, I., **Arano, K.G.**, Warner, T.A., Gazal, R.M. & Joshi, S. 2011. Phenology of trees and urbanization: a comparative study between New York City and Ithaca, New York. *Geocarto International* 26(7):507-526.
- Fortney, J., **K.G. Arano**, and M. Jacobson. 2011. An Evaluation of West Virginia's Managed Timberland Tax Incentive Program. *Forest Policy and Economics* 13(1):69-78.
- Deng, J. **K.G. Arano**, C. Pierskalla, and J. McNeel. 2010. Linking urban forests and tourism: a case of Savannah, Georgia. *Tourism Analysis* 15:167-181.
- Fortney, J. and **K.G. Arano**. 2009. Property Taxes and Forests in West Virginia: A Historical Review. *Small Scale Forestry* 9:67-80.
- Joshi, S. and **K.G. Arano**. 2009. Determinants of Private Forest Management Decisions: A Study on West Virginia NIPF Landowners. *Forest Policy and Economics* 11(2), 132-139.

- Carino, H.F., **K.G. Arano**, C.A. Blanche, and A.A. Patawaran. 2007. Impact of curve sawing on southern pine dimension lumber manufacturing: Part 2- sawtimber requirements and supply. *Forest Products Journal* 57(4):77-82.
- Carino, H.F., **K.G. Arano**, C.A. Blanche, and A.A. Patawaran. 2007. Impact of curve sawing on southern pine dimension lumber manufacturing: Part 3- mill profitability and rational investment. *Forest Products Journal* 57(4):83-87.
- Carino, H.F., **K.G. Arano**, C.A. Blanche, and A.A. Patawaran. 2007. Impact of curve sawing on southern pine dimension lumber manufacturing: Part 4-maximizing economic benefits. *Forest Products Journal* 57(4):88-94.
- Nelli, D., D.W. McGill, **K.G. Arano**, and S.T. Grushecky. 2007. Forestry consulting fees and services in West Virginia. *Northern Journal of Applied Forestry* 24(4): 252-257.
- Arano, K.G.** and I. A. Munn. 2006. Evaluating forest management intensity: a comparison among major forest landowner types. *Forest Policy and Economic* 9(3):237-248.
- Carino, F.C., **K.G. Arano**, C.A. Blanche, and M.A. Patawaran. 2006. Impact of curve sawing on Southern pine dimension lumber manufacturing: Part 1 – lumber volume and value yields. *Forest Products Journal* 56(7/8): 61-68.
- Arano, K.G.**, I.A. Munn, J.E. Gunter, S.H. Bullard, and M.L. Doolittle. 2004. Comparison between regenerators and non-regenerators in Mississippi: a discriminant analysis. *Southern Journal of Applied Forestry* 28(4):189-195.
- Arano, K.G.**, I.A. Munn, J.E. Gunter, S.H. Bullard and M.L. Doolittle. 2004. Modeling landowner participation in a proposed reforestation loan program. *Small-scale Forest Economics, Management and Policy* 3(2): 177-190.
- Arano, K.G.**, T.L. Cushing and I.A. Munn. 2002. Forest management expenses of Mississippi's non-industrial private forest landowners. *Southern Journal of Applied Forestry* 26(2): 93-98.
- Bullard, S.H., J.E. Gunter, M.L. Doolittle and **K.G. Arano**. 2002. Discount rates for non-industrial private forest landowners in Mississippi: how high a hurdle? *Southern Journal of Applied Forestry* 26(1): 26-31.

Peer-Reviewed Proceedings/Abstracts

- McDonald, B., **K.G. Arano**, B. Spong, D. McGill, and K. Piatek. 2010. Evaluation of industrial promoted agroforestry in Andrah Pradesh and Madyah Pradesh India. In: Mirko Medved (Ed.). *Small scale forestry in a changing world: opportunities and challenges and the role of extension and technology transfer*. Proceedings of the 2010 IUFRO 3.08 Small Scale Forestry Conference. June 6-12, 2010, Bled, Slovenia.
- Riley, A., D.W. McGill, **K.G. Arano**, K.B. Piatek, and J.F. McNeel. 2010. Forest landowner willingness to pay for nontimber forest products education in West Virginia. In: Mirko Medved (Ed.). *Small scale forestry in a changing world: opportunities and challenges and the role of extension and technology transfer*. Proceedings of the 2010 IUFRO 3.08 Small Scale Forestry Conference. June 6-12, 2010, Bled, Slovenia
- Fortney, J. and **K.G. Arano**. 2009. Property Taxes and Forests in West Virginia: A Historical Review. In: Piatek, K.B., B.D. Spong, S. Harrison, and D.W. McGil (Eds.). *Seeing the Forest Beyond the Trees: New possibilities and*

expectations for products and services from small-scale forestry. Proceedings of the 2009 IUFRO 3.08 Small-Scale Forestry Symposium. June 2009, Morgantown, WV, United States: West Virginia University, Division of Forestry and Natural Resources.

Arano, K.G., R.M. Gazal, I. Dhami and T. Warner. 2009. Urban heat island effect advances spring growth. IOP Conference Series: Earth and Environmental Science 6.

J. Deng and **K.G. Arano**. Linking Urban Forests and Urban Tourism. A Structural Equation Modeling Approach. In: Proceedings of the Joint Final Conference of Forest for Recreation and Tourism and 11th European Forum on Urban Forestry, Hameenlinna, Finland, May 28-31, 2008.

Nelli, D., D.W. McGill, **K.G. Arano**, and S.W. Grushecky. Survey of West Virginia Forestry Consultants: Services and Provided and Fees Charged to the Private Forest Land Owners in the State of West Virginia. In: Proceedings of the 15th Central Hardwood Forest Conference, Knoxville, TN, February 27-March 1, 2006.

Conference Proceedings/Abstracts/Presentations

Gabbert, C., **K.A. Gazal** and J.F. McNeel. 2018. Historical Contribution of the Forest Products Industry to West Virginia's Economy. Presentation given to 21st Central Hardwood Forest Conference, May 15-17, 2018, Bloomington, IN.

Gabbert, C., **K.A. Gazal** and J.F. McNeel. 2018. Historical Contribution of the Forest Products Industry to West Virginia's Economy: A look at 2006, 2010, and 2015 Data. Presentation given to the International Society of Forest Economics (ISFRE) 2018 Annual Conference, March 19-21, 2018, Gatlinburg, TN.

Coble, D., N. Poudel, W. Hubbard, T. Coble, **K. A. Gazal**, J. Gordon, and J. Ghannam. 2016. The Future of Forestry: SAF Evolving Forestry Survey. Presentation given on the 2016 Society of American Foresters (SAF) Convention, November 4, 2016, Madison, WI.

Gazal, K. A. 2016. WV's Managed Timberland Program - Explanation of Proposed Rule Changes," WV Forest Management Review Commission Meeting, September 20, 2016, Charleston, WV.

Montague, I., **K.A. Gazal**, and J. Wiedenbeck, J. 2016. Social Media Tips and Trends for the Forest Products Industry. Presentation given to the 2016 International Woodworking Fair (IWF), August 26, 2016, Atlanta, GA.

Gazal, K.A., K.G. Arano, and R.M. Gazal. 2016. Employment Impact of the Marcellus Shale Gas Boom in the Forest Industry in West Virginia: A Preliminary County Level Analysis. Abstract and presentation given to the International Society of Forest Resource Economics Conference, April 3-5, 2016, Raleigh, NC.

Gazal, K.A. 2015. Managed Timberland Tax. Presentation at the 30th Annual AB Brooks Forestry Symposium, February 2-4, 2015, Charleston, WV.

Arano, K.G., **K.A. Gazal**, and R.M. Gazal. 2015. Employment Impact of the Marcellus Shale Gas Boom in West Virginia: A Preliminary County Level Analysis. Abstract submitted to the Missouri Valley Economic Association 52nd Annual Meeting, October 22-24, 2015, Kansas City, MO.

Montague, I., **K. A. Gazal, K.A.** J. Wiedenbeck, and R. Poudel. 2015. The Forest Products Industry in a Digital Age: The Use and Effectiveness of Social Media as a Marketing Tool. Abstract submitted

to the 58th SWST International Convention and IUFRO 5.10 Forest Products Marketing and Business Management Meeting, June 12, 2015, Grand Teton National Park, WY.

Poudel, R., **K.A. Gazal**, and A. Collins. 2015. Economic Valuation of Wetlands in the United States. Abstract submitted to the 54th Meeting of the Southern Regional Science Association, March 26-28, 2015, Mobile, AL.

Montague, I., **K.A. Gazal**, J. Shepherd, and J. Wiedenbeck. 2014. The Use and Effectiveness of Social Media as a Marketing Tool in the North American Forest Products Industry. Abstract submitted to the International Society of Forest Resource Economics Conference, March 17-18, 2014, St. Louis, MO.

Arano, K.G. and D. Deng. 2012. Economic Impact Analysis of Tree Festivals: The Case of the National Cherry Blossom Festival, Washington, D.C. Abstract submitted to the 2012 Southern Forest Economics Workshop, March 20-21, 2012, Charlotte, NC.

McCuen, M.E. McGill, D.W., **Arano K.G.** and S. Owen. The West Virginia Woodland Welcome Wagon. 18th Central Hardwood Conference, March 26-28, 2012, Morgantown, WV.

Poudel, R. and **K.G. Arano**. 2011. Impacts of Anthropogenic Stresses on Biodiversity: A Case Study of Lumbini, Nepal. Abstract submitted to the National Conference on Environment and Biodiversity of India, December 30-31, 2011, New Delhi, India.

Oliver, M. and **K.G. Arano**. 2011. An Evaluation of Private Forest Landowners' Participation in Conservation Easements in West Virginia: Preliminary Results. Abstract submitted to the 2011 Southern Forest Economics Workshop, March 20-22, 2011, Little Rock, AR.

Arano, K.G., J. Wang, and M. Parsons. 2010. An Evaluation of Global Competitiveness of West Virginia's Forest Products Industry: Preliminary Results. Abstract submitted to the 2010 Southern Forest Economics Workshop, March 15-17, Pinehurst, NC.

K.G. Arano. 2009. Implications of Changing Urban Tree Phenology on Human Health Costs. I: Gunnar Tellnes and Merete Furuberg (Eds.). Book of Abstracts for the Conference on Ecology and Forests for Public Health. Sept. 18-21, 2009, Oslo, Norway.

Fortney, J. and **K.G. Arano**. 2009. An Evaluation of Forest Landowners' Participation in West Virginia's Managed Timberland Tax Incentive Program . Proceedings of the Southern Forest Economics Workshop 2009, Southern Forests and Evolving Markets for Alternative Products and Services, Chapel Hill, NC, March 8-10, 2009.

K.G. Arano. 2008. Electronic Commerce Adoption in West Virginia's Primary and Secondary Hardwood Industries: Preliminary Results. Proceedings of the Southern Forest Economics Workshop 2008, Forestland Ownership Change in the South: Implications for Management, Production, and Conservation, Savannah, GA, March 9-11, 2008.

Joshi S. and **K.G. Arano**. 2007. Forest Management Decisions of Nonindustrial Private Forest Landowners of West Virginia. In: Proc. Southern Forest Economics Workshop, March 4-6, 2007, San Antonio, Texas.

Arano, K.G. and S. Moss. 2007. A Comparison of Taxes Incurred During Production and Delivery of Hardwood Sawtimber in Kentucky, Maryland, Virginia, and West Virginia. Poster presented in the Southern Forest Economics Workshop, March 4-6, 2007, San Antonio, Texas.

Joshi S. and **K.G. Arano**. 2006. West Virginia forest landowners: a look at their characteristics and forest management decision. In: Proc. Southern Forest Economics Workshop, March 23-26, 2006, Knoxville, Tennessee.

Arano, K.G. and I.A. Munn. 2003. Forest Management Activities and Expenditures of Mississippi NIPF Landowners: 1998-2000 Data. In: Proc., 2003 Southern Forest Economics Workshop, March 17-18, 2003, New Orleans, Louisiana.

Arano, K.G. and I.A. Munn. 2003. Evaluating forest management intensity: a comparison among major landowner groups in Mississippi. In: Proc., 2002 Southern Economic Association Conference, November 24-26, 2002, New Orleans, Louisiana.

Arano, K.G., J.E. Gunter, S.H. Bullard, M.L. Doolittle and I.A. Munn. 2003. Factors affecting Mississippi's NIPF landowners' reforestation decisions. In: Proc., Global Initiatives and Public Policies: First International Conference on Private Forestry in the 21st Century, March 26-27, 2001, Atlanta, Georgia.

Arano, K.G., T.L. Cushing and I.A. Munn. 2001. Non-industrial private forest landowners' management expenditures in Mississippi, 1995-1997. In: Proc., 2000 Southern Forest Economics Workshop, March 26-28, 2000, Lexington, Kentucky.

Research Bulletins

Arano, K.G. and I. A. Munn. 2004. Non-industrial private forest landowners' forest management activities and expenditures in Mississippi: 1998-2000 Data. Forest and Wildlife Research Center, Bulletin FO249, Mississippi State University, Mississippi State, Mississippi. 13 pp.

Gunter, J.E., S.H. Bullard, M.L. Doolittle and **K.G. Arano**. 2001. Reforestation of harvested timberlands in Mississippi: behavior and attitudes of non-industrial private forest landowners. Forest and Wildlife Research Center, Bulletin FO172, Mississippi State University, Mississippi State, Mississippi. 25 pp.

Forestry Magazine/Information Sheet/Other Publications

Deng, J., Pierskalla, C., **Arano, K.G.** Andrada II, R. and Y. Zhang. 2012. Linking urban forests and tourism: aesthetic appeal and economic values. Final Project Report Prepared for National Urban Forestry and Community Advisory Council (NUCFAC).

F. Boettner, C. Donohue, M. Vanderberg, J. Deng, M. Strager, **K.G. Arano**, S. Lamont, S. Grushecky, R. Mcilmoil, and L. Fritz. Appalachian Assessment of Natural Assets: Forests. A Final Project Report Prepared for the Appalachian Regional Commission (ARC).

Deng, J., S. Selin, and **K.G. Arano**. 2010. Travel/Tourism Related Economic Analysis for Garrett County, Maryland. Report prepared for Garrett County Chamber of Commerce, McHenry, Maryland.

Nelli, D., D. McGill, **K. Arano**, and S. Grushecky. 2006. Consulting Forestry and Services in West Virginia. Appalachian Hardwood Center Information Sheet No. 1.

Moss, S. and **K.G. Arano**. 2006. A Comparison of Taxes Incurred During the Production and Delivery of Hardwood Sawtimber in Kentucky, Maryland, Virginia, and West Virginia. Commissioned by the West Virginia Forestry Association to conduct a research on taxation in the wood industry, 2005-2006.

Gunter, J.E. and **K.G. Arano**. 2002. Concentrations of Mississippi NIPF landowners not reforesting harvested timberland. *Tree Talk*, Fall:25.

FUNDING RECEIVED

The Use and Effectiveness of Social Media in the Consumer's Forest Products Purchasing Decision. (with Iris Montague). USDA Forest Service, \$10,000.00. 2017-2018.

Gazal, K. A., "Kaye C. Daniel Faculty Development Grant," Sponsored by Davis College of Agriculture, Natural Resources & Design, West Virginia University, \$664.00. July 1, 2016 - June 30, 2017.

Gazal, K. A., "Faculty Travel Grant," Sponsored by WVU Internal Grants Program, West Virginia University, \$800.00. January 1, 2016 - August 30, 2016.

Seasons in the Woods: Evaluating the Association of Pre-Seminar Participation and Outcomes (with co-PI with Dave McGill, A. Kedmenecz, D Friend, and S. Starcher). WVU Extension Service, \$2,000. 2015-2016.

The Use and Effectiveness of Social Media as a Marketing Tool in the U.S. Forest Products Industry. USDA Forest Service, \$4,824.60 (additional funding). 2014.

The Use and Effectiveness of Social Media as a Marketing Tool in the U.S. Forest Products Industry. (with Iris Montague). USDA Forest Service, \$41, 331. 2012-2014.

A Review of WV's Managed Timberland Program. WV Forestry Association and Appalachian Hardwood Center. \$9,800. 2013-2014.

Appalachian Assessment of Natural Assets: Forests (co-PI with F. Boettner, C. Donohue, M. Vanderberg, J. Deng, M. Starger, S. Lamont, S. Grushecky, R. Mcilmoil, and L. Fritz). Appalachian Regional Commission. \$149,911. 2010-2011.

2009 IUFRO 3.08 Small-Scale Forestry Symposium. (Co-PI with Dave McGill (PI), Kathryn Platek, and Ben Spong). USDA Forest Service. \$5000. 2009.

An Evaluation of the Domestic and Global Competitiveness of the West Virginia Forest Products Industry: Problems and Strategies (PI). USDA CSREES. \$38,699. 2008-2010.

Redesign of the Principles of Forestry Economics Course (PI). WVU Davis College of Agriculture, Forestry and Consumer Sciences Faculty Development Fund. \$3,952.50. 2008.

Risk Analysis in Forestry Investments – Simulation Model to be Used by Students. (PI with Stuart Moss). WVU Davis College of Agriculture, Forestry and Consumer Sciences Faculty Development Fund. \$1,500.00. 2008-2009.

Linking Urban Forests and Tourism: Aesthetic Appeal and Economic Values. (Co-PI, with Jinyang Deng (PI), Yaoqi Zhang and Chad Pierskalla). USDA Forest Service's Urban and Community Forestry Program. \$119,245. 2007-2010.

Factors Affecting Electronic Commerce Adoption in the Primary and Secondary Hardwood Industries in West Virginia (PI). West Virginia University Senate Research Grant. \$8,457. 2007-2008.

Effects of Elevated CO₂ and O₃ on Forest Growth and Wood Quality: Economic Implications (PI). USDA Forest Service. \$8,296. 2006-2008.

Urban Tree Phenology and Its Economic Implications (PI, with Rico Gazal, and Michael White). USDA Forest Service's Urban and Community Forestry Program. \$40,462. 2006-2008.

Internationalization of Forestry Education: Improving Global Competency of West Virginia University Students and Faculty (Co-PI, with Kathryn Piatek (PI) and Dave McGill. USDA CSREES International Science and Education Program. \$98,000. 2006-2009.

Promoting Production of Non-Timber Forest Products in West Virginia (Co-PI, with Dave McGill (PI) Joseph McNeel, and Kathryn Piatek). West Virginia Division of Forestry. \$36,268. 2006-2007.

Economics of Eastern hardwood management, production and utilization: The role of NIPF landowners in the Appalachian hardwoods of West Virginia (PI). McIntire-Stennis Grant. \$206,229. 2005-2009.

Evaluation of accelerated natural even-aged immature black cherry stands (Co-PI, with John Brooks (PI), Stuart Moss, Kathryn Piatek, and Eric Heitzman). Misc. grants contracts. \$32,000. 2005-present.

Study of WV Forestry Professionals: Services Provided to the Private Forestland Owners in the State of West Virginia (Co-PI with Dave McGill (PI), Dheeraj Nelli, and Shawn Grushecky). West Virginia University Extension Service Research Grant. \$2,000. 2005-2006.

PROFESSIONAL ACTIVITIES

- Presenter, International Woodworking Fair, Atlanta, GA, August 26, 2016.
- Presenter, International Society of Forest Economics Symposium, Raleigh, NC, April 3-5, 2016.
- Presenter, 30th AB Brooks Annual Forestry Symposium, Charleston, WV, February 2-4, 2015.
- Participant, Missouri Valley Economic Association 52nd Annual Meeting, Kansas City, MO, October 22-24, 2015.
- Participant, International Society of Forest Economics Symposium, St. Louis, MO, March 17-18, 2014.
- Participant, Southern Forest Economics Workshop, Auburn, AL, March-10-12, 2013.
- Participant, Allegheny SAF Winter Meeting, Clinton, NJ, February 15-17, 2012.
- Presenter and Participant, Southern Forest Economics Workshop, Charlotte, North Carolina, March 20-21, 2012.
- Participant and Session Moderator, 18th Central Hardwood Forest Conference, Morgantown, WV, March 26-28, 2012.
- Participant, WV Division SAF Summer Meeting, Morgantown, WV, September 4-5, 2012.
- Associate Editor, Southern Journal of Applied Forestry, 2011-present.
- Participant, Longitudinal Data Analysis Workshop, Marina del Rey, California, May 21-22, 2010.
- Presenter and Participant, Southern Forest Economics Workshop, Pinehurst, North Carolina, March 15-17, 2010.
- Paper presenter and Participant, International Conference on Ecology and Forests for Public Health, Oslo, Norway, September 18-20, 2009.

- Participant, co-author of paper presented, and member of scientific and organizing committee, 2009 IUFRO 3.08 Small-Scale Forestry Symposium, Morgantown, WV, June 7-19, 2009.
- Member of Peer Review Panel, USDA-CSREES FY 2009 International Science and Education Competitive Grants Program, Washington, D.C. March 17-18, 2009.
- Participant and co-author of paper presented, Southern Forest Economics Workshop, Chapel Hill, North Carolina, March 8-10, 2009.
- Participant, WVU Faculty Development Session: The 4 Aces of Effective Teaching, Morgantown, WV, February 24, 2009.
- Participant, LOGIC Model Workshop, CSREES, Washington, D.C, January, 31, 2008.
- Paper presenter and Participant, Southern Forest Economics Workshop, Savannah, Georgia, March 9-11, 2008.
- Participant, Society of American Foresters Leadership Academy, Potomac, Maryland, April 26-29, 2008.
- Participant, GLOBE Partner Development Workshop, Boulder, Colorado, August 3-9, 2008.
- Participant, NSF Day in West Virginia, Morgantown, West Virginia, December 4, 2007.
- Participant, Introduction to IMPLAN Professional Economic Impact Analysis Training, Stillwater, Minnesota, July 19-20, 2007.
- Participant, Colloquium on "Markets, Freedom, and the Environment (co-sponsored by the Political Economy Research Center and Liberty Fund Inc.), Nine Quarter Circle Guest Ranch, Big Sky, Montana, June 21-24, 2007.
- Participant and co-author of paper presented, Southern Forest Economics Workshop, San Antonio, Texas, March 4-6, 2007.
- Participant and co-author of paper presented, Southern Forest Economics Workshop, Knoxville, Tennessee, March 23-26, 2006.
- Participant, 15th Central Hardwood Forest Conference, Knoxville Tennessee, February 27, March 1, 2006.
- Participant, Write Winning Grants Workshop by Dr. Stephen W. Russell, West Virginia University, July 10, 2006.
- Paper Presenter, 2006 Area Tree Farm Meetings, West Virginia, February 22, 2006.
- Participant, Southern Economic Association Annual Meeting, Washington D.C., Nov. 18-21, 2005.
- Participant, USDA/CSREES Grantsmanship Workshop, Washington D.C., September 7-8, 2005.
- Participant, West Virginia Watershed Network Watershed Celebration Day, Elkins, West Virginia, September 24, 2005.
- Participant, Wood Biomass Conference, Morgantown, West Virginia, June 29-30, 2005.
- Participant, Timberland Investment Conference, Atlanta, Georgia, October 20-22, 2004.
- Paper Presenter and Participant, Southern Forest Economics Workshop, New Orleans, Louisiana, March 17-18, 2003.
- Paper Presenter and Participant, Southern Economic Association Conference, New Orleans, Louisiana, November 24-26, 2002.
- Paper Presenter and Participant, Global Initiatives and Public Policies: First International Conference on Private Forestry in the 21st Century, Atlanta, Georgia, March 26-27, 2001.
- Participant, Southern Forest Economics Workshop, Atlanta, Georgia, March 27-28, 2001.
- Paper Presenter and Participant, Southern Forest Economics Workshop, Lexington, Kentucky, March 26-28, 2000.
- Resource Person, Forest Biometry, Forest Inventory and Timber Harvesting, Review Class for Forestry Licensure Examination, Ifugao State College of Agriculture and Forestry, Ifugao, Philippines, 1997.
- Resource Person, Wood Identification, Review Class for Forestry Licensure Examination, Society of Filipino Foresters-Forest Resources Management Department, College of Forestry UPLB, College, Laguna, Philippines, 1997.
- Resource Person, Wood Identification, Review Class for Forestry Licensure Examination, Forest Resource Management Department, College of Forestry UPLB, College, Laguna, Philippines, 1996.
- Resource Person, Recent Developments in Forestry, Review Class for Forestry Licensure Examination, Forest Resources Management Department, College of Forestry UPLB, College, Laguna, Philippines, 1996.

- Assistant Coordinator, Review Class for Forestry Licensure Examination, Forest Resources Management Department, College of Forestry UPLB, College, Laguna, Philippines, 1996.
- Participant, Seminar on College Teaching, University of the Philippines, College, Laguna, Philippines, 1996.
- Participant, Seminar on Popular Writing, Institute of Forest Conservation, Philippines, 1995.

PROFESSIONAL MEMBERSHIPS

- Associate Editor, Forest Science (Applied Articles – Economics), 2012-present.
- Past President, Gamma Sigma Delta, WV Chapter, 2011-2012.
- Member, The West Virginia Consortium for Faculty and Course Development in International Studies (FACDIS), 2005-present.
- Member, Society of American Foresters, 2005-2013.
- Member, International Society of Forest Resource Economics (formerly SOFEW), 1999-present.
- Member, Xi Sigma Pi, the Forestry Honor Society, Mississippi State University Chapter, 2002.
- Member, Phi Kappa Phi Honor Society, International Chapter, 1995.
- Member, Gamma Sigma Delta Honor Society of Agriculture, 1995-present.

HONORS AND AWARDS

- 2013 Service to Gamma Sigma delta West Virginia Chapter Award of Merit, April 9, 2013.
- Outstanding Graduate Student, David M. Moehring Memorial Award, Mississippi State University, 2003-2004.
- Research Fellow, Political Economy Research Center (PERC), Bozeman, Montana, Summer 2002.
- Recipient of the Medal for Academic Excellence in Forestry, University the Philippines, 1995.
- Young Achievers Award, Municipality of Cabagan, Philippines, 1995.