

Michael G. Jacobson

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EDUCATION

- 1997** Ph.D. North Carolina State University, Major: Forest Economics (Dept. of Forest Resources)
1990 Master of Environmental Management (M.E.M), Duke University (School of Forestry and Environmental Studies)
1984 B.A. in Economics, University of Connecticut

CURRENT APPOINTMENTS

- 2012-** Professor of Forest Resources, Department of Ecosystem Science and Management, Pennsylvania State University
2024- Affiliate professor, University Mohammed VI Polytechnic (UM6P). Morocco
2020- Honorary Professor, School of Agricultural, Earth and Environmental Sciences, University of Kwazulu-Natal
2018- Affiliate Professor, African Studies, Pennsylvania State University
2018- Director, Penn State Water-Energy-Food Nexus Initiative in Africa
2018- Global Fellow, College of Agricultural Sciences, Pennsylvania State University
2007- Extraordinary Professor, Department of Forest and Wood Science, Faculty of Agrisciences, Stellenbosch University, South Africa

PREVIOUS APPOINTMENTS

- 2015-19** Chair, Forest Ecosystem Management Program, Department of Ecosystem Science and Management, Pennsylvania State University
2011-15 Affiliate Professor, School of International Affairs, Pennsylvania State University
2007-12 Associate Professor of Forest Resources, School of Forest Resources, Pennsylvania State University
1999-07 Assistant Professor of Forest Resources, Pennsylvania State University
1997-99 Assistant Professor, University of Florida, Gainesville, FL
1993-97 Graduate Assistant, North Carolina State University, Raleigh, NC
1992-93 Director of Information, Tropical Forest Foundation, Alexandria, VA
1990-92 Research Associate, World Bank, Agriculture Department, Washington, DC
1998-90 Graduate Assistant, Duke University, Durham, NC
1986-88 Agroforestry Technician/Extension Agent, U.S. Peace Corps, Lesotho, Africa

SELECTED COUNTRY-BASED FORESTRY EXPERIENCE

- Bangladesh** Nontimber forest products livelihoods. UNDP Project Chittagong Hills (2008)
Costa Rica Protected area study. The Nature Conservancy (2005)
Egypt Masterclass in Nexus WEF in Development: Water-Energy-Food-Ecosystems in the South Mediterranean (2023)
Ethiopia Multiple projects including Forestry Ministry Training (1998) and collaboration with University Gondar and World Vision on water energy food nexus projects (2019-2020)
France Agroforestry demonstration tour of eastern France. INRA (2010)
Germany Guest professor at University of Freiburg- linking water energy food nexus to Universal Basic Income strategies (2022)
Ghana MIASA fellowship on rural transformation at the University of Ghana (2020)

Guinea	Natural resources curriculum development at Université de Guinee. (OICI) (2006)
India	Evaluation of bioenergy projects with ICRAF (2016); Research on dryland agroforestry in W. Rajasthan with University of Jodhpur January 2026
Indonesia	Multiple projects including Forest certification review for World Bank and IFC (2006) Forest tree seed supply review for ICRAF and Winrock International (2005)
Kazakhstan	Forest sector review. U.S. Agency for International Development (USAID) (1996). Recent projects with S. Seifullin Kazakh Agro Technical University
Kenya	Multiple projects including sabbatical (2015), bioenergy development for ICRAF, Ecozoom Ltd. and Gatsby Foundation (2015-2017); NSF Accelnet SustainFood project Collaborative Learning School (May 2026)
Lesotho	Agroforestry Peace Corps Volunteer (1986-1988)
Liberia	Forest concession assessment for Liberia Environmental Protection Agency (2019)
Malawi	Multiple projects including Fertilizer trees evaluation for soil replenishment, bioenergy and fuelwood. ICRAF (2014) and Rural Livelihoods Consortium to examine forest enterprises. USAID. (2005)
Morocco	Phosphate mine reclamation (with trees and grasses), community development and income opportunities. OCP Foundation (2015 and 2016), Student embed course trip 2017. USAID Morocco Climate Action Consultative Workshop (2023). Sabbatical at UM6P 2025-2026
Mozambique	Natural product enterprises development. Ford Foundation (2007–2009)
Namibia	Case studies on water energy food nexus operationalization (2022)
Nigeria	Co-led workshop on Water-Energy-Food Nexus in sub-Saharan Africa. IITA (2018)
Portugal	COST Action CA20138 Network on water-energy-food nexus for a low-carbon economy in Europe and beyond – NEXUSNET. 1st training school entitled “Nature and people in the Nexus” (2023).
South Africa	Multiple projects including Sabbatical (2007) with Stellenbosch University, Carnegie Diaspora Fellowship (2017 and 2018), and Agroforestry evaluation for German Development Agency (GTZ) (2003 and 2004)
Tanzania	Research on dryland agroforestry in Dodoma and Singida with TAFORI. February 2026
Tunisia	Role of drought indicators in the context of water energy food nexus. 5th MEDITERRANEAN WATER FORUM. Tunis (March 2024)
Turkey	Workshops with policy makers and farmers on disaster and drought risk and resilience indicators (Belmont Forum DR3 project)
Uganda	NSF AccelNet Collaborative Learning School (2023) and multiple projects including courses for FAO Sawlog Production Grant Scheme (SPGS) (2013) and Borlaug Fellowship to Makerere University (2008 and 2014)
Ukraine	Western Ukraine and Crimea Forest evaluation. USDA Forest Service. (2006-2007)
Zambia	Multiple projects including USAID PEER: Adoption and Scale-Up of Charcoal Alternatives (2019) and Impact of fertilizer tree adoption - CGIAR SPIA (2017)
Zimbabwe	NSF AccelNet SUSTAINFOOD project workshop with RUFORUM and Bindura University (2022); Research on dryland agroforestry in Binga with NUST. March 2026

HONORS, AWARDS AND DISTINCTIONS

2020	W. LaMarr Kopp International Faculty Achievement Award, Penn State
2020	Merian Institute for Advanced Studies (MIASA) fellowship at the University of Ghana
2019-20	LEAD 21- Leadership for the 21-century
2019	Carnegie Diaspora Fellowship Award, South Africa
2019	World Agroforestry Congress. Scientific Panel Co-Chair, France
2017	Carnegie Diaspora Fellowship Award, South Africa

2009-13	President, Association for Temperate Agroforestry (2009-2013)
2005-13	Small Scale Forestry Journal, Board of Editors
2002-05	Society of American Foresters Forest Science and Technology, Board Chair
2001-09	IUFRO Extension and Knowledge Exchange Working Party Co-Chair
2001-02	Northeast Extension Foresters Committee Chair
1996	Gene Namkoong Fellowship Award, North Carolina State University

PROFESSIONAL & SCHOLARLY SOCIETIES

Association of Temperate Agroforestry
 International Union *for* Agroforestry
 IUFRO Working Group 3.08. Small-scale forestry
 Society of American Foresters
 International Society of Tropical Foresters
 Forest History Society
 Pennsylvania Forestry Association (1999–present)
 Association of National Resource Extension Professionals

JOURNAL ARTICLES

- Konak, A, N. Balta-Ozkan, E. Shrimpton, **M. Jacobson**, D. Winstead, A. Nardocci, T. Sarmah, E. Mendiondo. 2026. Operationalizing Vulnerability and Resilience Interdependencies in Drought Risk Management. *Sustainability Science* <https://doi-org.ezaccess.libraries.psu.edu/10.1007/s11625-026-01859-z>
- Winstead, D, and **M. Jacobson**. 2026. Modeling neglected and underutilized crops for future food resilience: a regional MaxEnt workflow. *Plant-Environment Interactions* <https://doi.org/10.1002/pei3.70115>
- Tebkew, M., Z. Asfaw, A. Worku, M. Jacobson, H. Atinkut, 2025. Comparative financial profitability of agroforestry and cereal monocropping practices in Northwestern Ethiopia. *Science of The Total Environment*. <https://doi.org/10.1016/j.scitotenv.2025.180164>.
- Johnson, J., **M. Jacobson**, S. Cole, M. Syapwaya, A. Kaminski, , H. Karsten, J. Stauffer, L. Jensen, M. Lundeba. 2025. An Assessment of Social and Ecological Factors Influencing the Management and Productivity of Smallholder Aquacultural Systems in Northern Province, Zambia. *Aquaculture Research*. <https://doi.org/10.1155/are/9635984>
- Sarmah, T., N. Ozkan, A. Konak, E. Shrimpton, K. Sass, M. Macedo, E. Mendiondo, A. Nardocci, D. Huo, **M. Jacobson**, 2025. Usability of Agricultural Drought Vulnerability and Resilience Indicators in Planning Strategies for Small Farms: A Principal Component Approach. *Climate Services*, <https://doi.org/10.1016/j.cliser.2025.100569>
- Boubal, Z., L. El Gueddari, N. Ullah, S. Khiri, W. Janati, N. Merghoub, H. Lgaz, A. Chafik, **M. Jacobson**, E. El maiden. 2025. Exploring the Biochemical Properties and Cosmetic Potential of Camel Hump Fat: Influence of Biological and Physiological Factors. *Food and Humanity*. <https://doi.org/10.1016/j.foohum.2025.100731>.
- Khiri, S.; Ullah, N.; Boubal, Z.; Janati, W.; Amalich, S.; Lgaz, H.; **Jacobson, M.G.**; Elmaaiden, E. 2025. Transforming essential oil extraction wastes: Sustainable valorization approaches for agricultural, industrial, and cosmetic applications. *Biomass Bioenergy* , 201, 108109. [10.1016/j.biombioe.2025.108109](https://doi.org/10.1016/j.biombioe.2025.108109)
- Konak, A., E. Shrimpton, N. An, M, Turp, B. Bilgin, **M. Jacobson**, N. Balta-Ozkan. (submitted April 18, 2025) Drought Impacts and Adaptation Strategies Among Small Farmers in Türkiye: A Fuzzy Cognitive Mapping Approach to Drive Policy, Environmental Hazards

- Boubal, Z., Khiri, S., Ullah, N. **M. Jacobson**, E. El Maaiden 2025. Valorization of Camel Bioproducts and Wastes: Applications in Cosmetics, Pharmaceuticals, Food, Bioenergy, and Sustainable Economy. *Waste Biomass Valor.* <https://doi.org/10.1007/s12649-025-03180-9>
- Wahlstrom, M., **M. Jacobson**, M. Langholtz, T. Volk, Busch. 2025. Mobilizing mine lands for biobased decarbonization strategies. *Biofuels, Bioproducts and Biorefining.* <https://doi.org/10.1002/bbb.2766>
- Khiri, S., A. El-Mrabet, Z. Boubal, N. Ullah, A.Ullah, W. Janati, L. El Gueddari, ..., **M. Jacobson**, and E. El Maaiden. 2025. Valorization of residual biomass from essential oil extraction of *Ammodaucus leucotrichus*: A step towards sustainable cosmetic and pharmaceutical applications. *Biomass and Bioenergy.* <https://doi.org/10.1016/j.biombioe.2025.107820>
- Khiri, S., A. El-Mrabet, N. Ullah, H. Targmoussi, Z. Boubal, L. Gueddari, ... **M. Jacobson**, and E. El Maaiden. 2025. Novel approaches to exploring nutritional potential and applications of residual biomass after essential oil extraction: case study of *Ammodaucus leucotrichus*. *Biomass Conversion and Biorefinery*, 1-11. <https://doi.org/10.1007/s13399-025-06753-9>
- Ono-Raphel, J.G., L. du Preez, A. Cherry, and **M. Jacobson**. 2025. Improving Smallholder Maize Production in KwaZulu-Natal, South Africa. *Food Energy Secur*, 14:70053. <https://doi.org/10.1002/fes3.70053>
- Djenontin, I, B.Daher, J. Johnson, K. Adule, B. Hishe, P. Kekirunga, V. King, E. Mullaney, P. Nimushaba, **M. Jacobson**, A. Huber-Lee, E. Kayendeke, A. Konak, V. Morrone, E. Obonyo, L. Sanya, L.Schmitt Olabisi, S. Ulloa Jiménez, C. Scott. 2025. Coproducing water-energy-food Nexus actionable knowledge: Lessons from a multi-actor collaborative learning school In Uganda. *Environmental Science & Policy*, <https://doi.org/10.1016/j.envsci.2025.104028>
- S. Cissé, B., B. El Amine, S. Anuga, M. Metougui, B. Gerard, M. Jacobson, and N. Chirinda, 2024. A 4R Framework for Climate Finance: A Pathway for Effective Climate Finance Allocation, *Growing Africa* 3(2):20-24. <https://doi.org/10.55693/ga32.JMLR2841>
- Johnson, J. W., **M. Jacobson**, S. Cole, A. Kaminski, H. Karsten, M. Syapwaya, M. Lundeba. 2024. Strategies for feeding tilapia in smallholder aquaculture systems: a study of aquaculture feed access and availability in two districts of Northern Province, Zambia. *Agroecology and Sustainable Food Systems*, 1–29. <https://doi.org/10.1080/21683565.2024.2421951>
- Winstead, D., and **M. Jacobson**, M. 2024. Storable, neglected, and underutilized species of Southern Africa for greater agricultural resilience. *Plant-Environment Interactions*, 5, e70004. <https://doi.org/10.1002/pei3.7000425756265>
- Tebkew, M., Asfaw, Z., Worku, A. and **M. Jacobson**. 2024. Contribution of agroforestry practices to income and poverty status of households in Northwestern Ethiopia. *Discov Agric* 2, 48. <https://doi.org/10.1007/s44279-024-00062>
- Sass, K, A. Konak, M. de Macedo, M. Benso, E. Shrimpton, N. Ozkan, T. Sarmah, E. Mendiondo, G. da Silva, P. da Silva, A. Nardocci, and **M. Jacobson** 2024. Enhancing drought resilience and vulnerability assessment in small farms: A global expert survey on multidimensional indicators. *International Journal of Disaster Risk Reduction.* <https://doi.org/10.1016/j.ijdr.2024.104616>.
- Thomchick, E, **M. Jacobson**, K. Ruamsook. 2024. Bioeconomy bright spots, challenges, and key factors going forward: Perceptions of bioeconomy stakeholders. *EFB Bioeconomy Journal.* <https://doi.org/10.1016/j.bioeco.2024.100068>.
- de Macedo, M. B., Benso, M. R., Sass, K. S., Mendiondo, E. M., da Silva, G. J., da Silva, P. G. C., Shrimpton, E., Sarmah, T., Huo, D., **Jacobson, M.**, Konak, A., Balta-Ozkan, N., and Nardocci, A. C. 2024. Brief communication: Lessons learned and experiences gained from building up a global survey on societal resilience to changing droughts, *Nat. Hazards Earth Syst. Sci.*, 24, 2165–2173, <https://doi.org/10.5194/nhess-24-2165-2024>,
- Winstead, D., Di Gioia, F., Jauregui, M., & **Jacobson, M.** 2024. Nutritional properties of raw and cooked *Azolla caroliniana* Willd., an aquatic wild edible plant. *Food Science & Nutrition* 12(3): 2050–2060 <https://doi.org/10.1002/fsn3.3904>

- Neupane, K., Regmi, A., Grab, L., **Jacobson, M. G.**, & Kelsey, T. W. 2024. Economic impact of All-Terrain Vehicles (ATVs) on local economies: a literature review. *Review of Economic Assessment*, 3(1), 25. <https://doi.org/10.58567/rea03010003>
- Cialdella, N., **Jacobson, M.** & Penot, E. 2023. Special Issue: Economics of Agroforestry: Links Between Nature and Culture. *Agroforestry Systems* Vol 97(3)
- Cialdella, N., **Jacobson, M.** & Penot, E. Economics of agroforestry: links between nature and society. *Agroforest Syst* 97, 273–277 (2023). <https://doi.org/10.1007/s10457-023-00829-z>
- Frey, G., J. Chamberlain, **M. Jacobson**. 2023. Producers, production, marketing, and sales of non-timber forest products in the United States: a review and synthesis. *Agroforestry Systems*. doi.org/10.1007/s10457-021-00637-3
- Winstead, D., **M. Jacobson**, G., Di Gioia Francesco. 2023. Valorizing staple Native American food plants as a food resilience resource. *Frontiers in Sustainable Food Systems*. <https://doi.org/10.3389/fsufs.2023.1117805>
- Winstead, D., **M. Jacobson**. 2022. Food resilience in a dark catastrophe: A new way of looking at tropical wild edible plants. *Ambio*. <http://dx.doi.org/10.1007/s13280-022-01715-1>
- Winstead, D., **M. Jacobson**. 2022. Forest Resource Availability After Nuclear War or Other Sun-Blocking Catastrophes. *Earth's Future*. <https://doi.org/10.1029/2021EF002509>
- Neupane, K.; Regmi, A.; Grab, L.; Jacobson, M. G.; Kelsey, T. W. Economic impact of All-Terrain Vehicles (ATVs) on local economies: a literature review. *Review of Economic Assessment*, 2022, 3, 25. <https://doi.org/10.58567/rea03010003>
- Luppold, W., M. Bamgardner and **M. Jacobson**. 2022. An Analysis of U.S. Hardwood Log Exports from 1990 to 2021. *Forest Products Journal*. <https://doi.org/10.13073/FPJ-D-22-00035>
- Naidoo, D., Nhamo, L., Mpandeli, S., Sobratee, N., Senzanje, A., Liphadzi, S., Slotow, R., **Jacobson, M.**, Modi, A. T., Mabhaudhi, T. 2021. Operationalizing the water-energy-food nexus through the theory of change. *Renewable and Sustainable Energy Reviews*. doi.org/10.1016/j.rser.2021.111416
- Chahal, A., J. Tripathi, D. Ciolkosz, S. Wurzbacher, and **M. Jacobson**. 2021. Perceptions of Debarking Small Diameter Stems in the Wood Products Community. *Forest Products Journal*. [doi:10.13073/FPJ-D-20-00074](https://doi.org/10.13073/FPJ-D-20-00074)
- Boleman, P., **Jacobson, M.** 2021. Nitrogen credit trading as an incentive for riparian buffer establishment on Pennsylvania farmland. *Agroforestry Systems*. doi.org/10.1007/s10457-021-00595-w
- Chahal, A., D. Ciolkosz, V. Puri, J. Liu, and **M. Jacobson**. 2021. Mechanical characteristics of wood-bark interface of shrub willow. *Industrial Crops and Products*. doi.org/10.1016/j.indcrop.2020.113236
- Bolkas, D., B. Naberezny, **M. Jacobson**. 2021. Comparison of sUAS photogrammetry and TLS for detecting changes in soil surface elevations following deep tillage. *Journal of Surveying Engineering*. [doi.org/10.1061/\(ASCE\)SU.1943-5428.0000346](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000346)
- Jacobson, M.**, D. Ciolkosz. 2020. Plantation Forestry and Pellet Production in Kenya. *Biomass and Bioenergy*. doi.org/10.1016/j.biombioe.2020.105519
- Chahal, A., D. Ciolkosz, V. Puri, J. Liu, **M. Jacobson**. 2020. Factors affecting wood-bark adhesion for debarking of shrub willow. *Biosystems Engineering*. doi.org/10.1016/j.biosystemseng.2020.05.019
- Jacobson, M.**, Ham, C. 2020. The (un)broken promise of agroforestry: a case study of improved fallows in Zambia. *Environ Dev Sustain*. <https://doi.org/10.1007/s10668-019-00564-5>
- Jiang, W., Zipp, K., Langholtz, **M.**, **Jacobson, M.** 2019. Modeling Spatial Dependence and Economic Hotspots in Landowners' Willingness to Supply Bioenergy Crops in the Northeastern United States. *GCB Bioenergy*. doi.org/10.1111/gcbb.12617
- Jiang, W., Carter, D., Fu, H., **Jacobson, M.**, Zipp, K., Jin, J., Yang, L. 2019. The Impact of the Biomass Crop Assistance Program on the United States Forest Products Market: An Application of the Global Forest Products Model. *orests*. <https://doi.org/10.3390/f10030215>
- Toth G, Nair PK, **Jacobson M**, Widyaningsih Y, Duffy C. 2019. Malawi's Energy Needs and Agroforestry: Impact of Woodlots on Fuelwood Sales. *Energy for Sustainable Development* doi.org/10.1016/j.esd.2019.02.006

- Jiang, W. **Jacobson, M.** Langholtz, M., 2018. A Sustainability Framework for Assessing Studies about Marginal Lands for Planting Perennial Energy Crops. *Biofuels, Bioproducts & Biorefining-Biofr.* doi.org/10.1002/bbb.1948
- Jiang, W., Zipp, K., **Jacobson, M.**, 2018. Economic Assessments of Landowner's Willingness to supply Dedicated Energy Crops on Marginal Lands. *Biomass and Bioenergy.* 113:22-30
- Jacobson, M.** Y. Shr, F. Delemans, C. Magaju, R. Ciannella. 2018. Using a choice experiment approach to assess production tradeoffs for developing the croton value chain in Kenya. *Forest Policy and Economics.* doi.org/https://doi.org/10.1016/j.forpol.2017.09.015
- De Stefano A., **M. Jacobson.** 2018. Soil carbon sequestration in agroforestry systems: meta-analysis. *Agroforestry Systems.* 92(2):295-299 <https://doi.org/10.1007/s10457-017-0147-9>
- Frey, G.; Blatner, K., **Jacobson, M.** Downes, C., Sills, E., Mercer, D. Alexander, S. Chamberlain, J., Gold, M., Godsey, L., Emery, M., Coffin, A., Barlow, R., Lohr, L. 2018. Economics of nontimber forest products. In: Chamberlain, J.L.; Patel-Weyand, T.; Emery, M. eds. Assessment of nontimber forest products in the United States under changing conditions. Gen. Tech Rep. SRS-232. Asheville, NC: USDA Forest Service, Southern Research Station.
- Woodbury, P., A. Kemanian, **M. Jacobson,** and M. Langholtz. 2017. Improving water quality in the Chesapeake Bay using payments for ecosystem services for perennial bioenergy feedstock production. *Biomass and Bioenergy.* doi.org/10.1016/j.biombioe.2017.01.024
- Toth G, Nair PK, **Jacobson M,** Y. Widyaningsih and C. Duffy. 2017. Malawi's Energy Needs and Agroforestry: Adoption Potential of Woodlots. *Human Ecology.* 45(6): 735-746
- Ciolkosz, D., **M. Jacobson,** M. Heil, W. Brandau. 2017. An assessment of farm scale biomass pelleting in the Northeast. *Renewable Energy.* <https://doi.org/10.1016/j.renene.2017.02.025>
- Chamberlain, J, Frey, G., Ingram, D., **Jacobson, M,** Downes, M., 2017. Forest Ecosystem Services: Provisioning of Non-Timber Forest Products. In: Sills, E et al, eds. Trees at work: economic accounting for forest ecosystem services in the U.S. South. Gen. Tech. Rep. SRS-226. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 65-93. Chapter 5.
- Bomuhangi A, Nabanoga G, Namaalwa J, **Jacobson M** and Gombya-Ssembajjwe W 2016. Gendered decision making and adaptation to climate change in Mt. Elgon Region, Eastern Uganda, *International Research Journal of Environmental Sciences and Studies.* Vol. 1 (1), pp: 1-23
- Bomuhangi A, Nabanoga G, Namaalwa J, **Jacobson M** and Abwoli B. 2016. Local communities' perceptions of climate variability in the Mt. Elgon region, Eastern Uganda. *Cogent Environmental Science Journal.* doi.org/10.1080/23311843.2016.1168276
- Grebner, D. **M. Jacobson,** and M. Fayvan. 2014. Forest ecosystem services and the scourge of invasive species. *Journal of Forestry.* doi.org/10.5849/jof.14-040
- Jacobson, M.** and S. Kar. 2013. Extent of agroforestry extension programs in United States. *Journal of Extension.* 51 (4)
- Kar, S. and **Jacobson, M.** 2012. Market constraints in NTFP trade: Household perspectives in Bangladesh, *International Forestry Review.* 14(1): 50-61. <http://www.jstor.org/stable/24310538>
- Burkhart, E. **M. Jacobson,** and J. Finley. 2012. A case study of stakeholder perspective and experience with wild American ginseng (*Panax quinquefolius*) conservation efforts in Pennsylvania, U.S.A.: limitations to a CITES driven, top-down regulatory approach. *Biodiversity and Conservation.* 21:3657-3679 doi.org/10.1007/s10531-012-0389-9
- Kar, S., and **M. Jacobson.** 2012. Non-timber forest products (NTFP) income contribution to household economy and related socio-economic factors: Lessons from Bangladesh. *Forest Policy and Economics.* 14(1):136-142 doi.org/10.1016/j.forpol.2011.08.003
- Kelso, A. and **M. Jacobson.** 2011. Community Assessment of Agroforestry Opportunities in GaMothiba, South Africa. *Agroforestry Systems.* doi.org/10.1007/s10457-011-9384-5

- Fortney, K. Arano, **M. Jacobson**, 2011. An Evaluation of West Virginia's Managed Timberland Tax Incentive Program. *Forest Policy and Economics*. 13(1):69-78. doi.org/10.1016/j.forpol.2010.08.002
- Greene, J., S. Daniels, M. Kilgore, T. Straka, and **M. Jacobson**. 2010. Effectiveness of financial incentive programs in promoting sustainable forestry in the West. *Western Journal of Applied Forestry*. 25(4):186-193.
- Daniels, S., M. Kilgore, **M. Jacobson**, J. Greene, and T. Straka. 2010. Examining the compatibility between forestry incentive programs in the US and the Practice of Sustainable Forest Management. *Forests*. 1(1):49-64. doi.org/10.3390/f1010049
- Jacobson, M.**, J. Greene, T. Straka, S. Daniels, and M. Kilgore. 2009. Influence and effectiveness of financial incentive programs in promoting sustainable forestry in the South. *Southern Journal of Applied Forestry*. 33(1):35-41.
- Cooper, E., and **M. Jacobson**. 2009. Establishing conservation easements on forested riparian buffers: Opportunities for long-term streamside protection. *Small-scale Forestry*. 8(3):263-268.
- Jacobson, M.**, T. Straka, J. Greene, M. Kilgore, and S. Daniels. 2009. Financial incentive programs' influence in promoting sustainable forestry in the Northern region. *Northern Journal of Applied Forestry*. 26(2):61-67.
- Kilgore, M., S. Daniels, **M. Jacobson**, J. Greene, and T. Straka. 2009. Financial incentive programs for non-industrial private forest owners web site. *Journal of Extension*. [Online] 47(4).
- Burkhart, E., and **M. Jacobson**. 2009. Transitioning from wild collection to forest cultivation of indigenous medicinal forest plants in eastern North America is constrained by lack of profitability. *Agroforestry Systems*. 76:437-453. doi.org/10.1007/s10457-008-9173-y
- Jacobson, M.**, C. Ham, and P. Ackerman. 2008. Forest management educational needs in South African forestry companies. *Southern Forests: A Journal of Forest Science*. 7(3):269-274.
- Kilgore, M., J. Greene, **M. Jacobson**, T. Straka, and S. Daniels. 2007. The influence of financial incentive programs in promoting sustainable forestry on the national family forests. *Journal of Forestry*. 105(4): 184-191.
- Straka T, M. Kilgore, **M. Jacobson**, J, Greene, and S. Daniels. 2007. Influence of incentive programs in sustainable wildlife values. *Human Dimensions of Wildlife*. doi.org/10.1080/10871200701323173
- Strong, N., and M. Jacobson. 2006. A case for consumer-driven extension programming: Agroforestry adoption potential in Pennsylvania. *Agroforestry Systems*. doi.org/10.1007/s10457-006-0002-x
- High, J., and **M. Jacobson**. 2005. Internet-based natural resource education. *Journal of Extension*. 43(3):1-23.
- Linehan, P., and **M. Jacobson**. 2005. Forecasting hardwood stumpage price trends in Pennsylvania. *Forest Products Journal*. 55(12):47-52.
- Strong, N., and M. Jacobson. 2005. Utilizing social marketing research methods to assess agroforestry adoption potential in diverse landscapes: A market segmentation case study in Pennsylvania. *Small-scale Forest Economics, Management and Policy*. 4(2):215-228.
- Linehan, P., **M. Jacobson**, and M. McDill. 2003. Hardwood stumpage price trends and regional market differences in Pennsylvania. *Northern Journal of Applied Forestry*. 20:124-130.
- Jacobson, M.** 2003. Wood vs. Water: Timber plantations in semiarid South Africa. *Journal of Forestry*. 101:31-35.
- Jacobson, M., and **M. McDill**. 2003. A historical review of forest property taxes in Pennsylvania: Implications for special forestland tax programs. *Northern Journal of Applied Forestry*. 20:53-60.
- Jacobson, M.** 2002. Factors affecting private forest landowner interest in ecosystem management: Linking spatial and survey data. *Environmental Management*. https://doi.org/10.1007/s00267-002-2605-y
- Jacobson, M.** 2002. Ecosystem management in the southeast United States: Interest of forest-landowners in joint management across ownerships. *Small-scale Forest Economics, Management and Policy*. 1:57-70.
- Boltz, F., D. Carter, and **M. Jacobson**. 2002. Shadow pricing diversity in US national forests. *Journal of Forest Economics*. 8:185-198.
- Finley, J., and **M. Jacobson**. 2001. Pennsylvania's extension program: A community-based cooperative effort. *Journal of Forestry*. 99:9-11.

- Jones, S., G. Glover, J. Finley, **M. Jacobson**, and A. Reed. 2001. Empowering private forest landowners. *Journal of Forestry*. 99:4-7.
- Jacobson, M.**, R. Abt, and D. Carter. 2000. Attitudes toward joint forest planning among private landowners. *Journal of Sustainable Forestry*. 11:95-112.

BOOK AND BOOK CHAPTERS

- Jacobson M.** And G. Pekarcik. 2022. Water-energy-food nexus approaches and initiatives in Africa. Floor Brouwer (Ed.), Handbook on the water-energy-food Nexus, Edward Elgar Publishing.
- Jacobson M.** 2022. Water–energy–food nexus approaches to facilitate smallholder agricultural technology adoption in Africa, In "Water - Energy - Food Nexus Narratives and Resource Securities". Eds. T. Mabhaudhi et al. Elsevier.
- Chibarabada, T., and **Jacobson, M** et al. 2022. Building capacity for upscaling the WEF nexus and guiding transformational change in Africa. In Mabhaudi T (Ed.), *Water - Energy - Food Nexus Narratives and Resource Securities A Global South Perspective* (pp. 21). Elsevier. Peer-reviewed/refereed. DOI: <https://doi.org/10.1016/B978-0-323-91223-5.00002-2>
- Jacobson, M.** 2022. Chapter 15 - Water–energy–food nexus approaches to facilitate smallholder agricultural technology adoption in Africa, In Mabhaudi T (Ed.), *Water - Energy - Food Nexus Narratives and Resource Securities A Global South Perspective* (pp. 21). Elsevier. Peer-reviewed/refereed. DOI: <https://doi.org/10.1016/B978-0-323-91223-5.00018-6>
- McCord, G., D. Kanter, J. Sklarew, G. Wu and **M. Jacobson**. 2020. Accelerating Sustainable Land Use Practices in the U.S. SDSN-USA Deep Decarbonization Action Plan. Zero Carbon Action Plan. New York: Sustainable Development Solutions Network (SDSN). <https://www.unsdsn.org/Zero-Carbon-Action-Plan>.
- Jacobson M.** and D. Ciolkosz (eds). 2013. *Wood-Based Energy in the Northern Forests*. New York: Springer. 245 pp.
- Langholtz, M. and **M. Jacobson**. 2013. The economic availability of woody biomass feedstocks in the Northeast. In Jacobson M and D. Ciolkosz (eds). *Wood-Based Energy in the Northern Forests*. New York: Springer
- Ham, C., **Jacobson, M.** 2012. Financial decision making in forestry projects. In: Van Bredenkamp, B., Upfold, S.J. (Eds.), *South African Forestry Handbook* (5th ed.). *Southern African Institute for Forestry*, pp. 491-500.
- Ham, C., N. Mander, **M. Jacobson**, M. Falcao, A. Manjoro, T. Dube, M. Howard, and M. Mander. 2009. Increasing the rural livelihood benefits from natural plant product ventures in Southern Africa: Case study analysis and business model. Ford Foundation.
- McKinistry, R., J. McElfish, and **M. Jacobson**. 2006. Coordination and planning tools that can be applied to biodiversity conservation. P. 195-218 in *the biodiversity handbook*. Environmental Law Institute, Washington, DC.
- McKinistry, R., J. McElfish, **M. Jacobson**, and D. Hay. 2006. Legal tools that provide direct protection for elements of biodiversity. P. 219-247 in *the biodiversity handbook*. Environmental Law Institute, Washington, DC.
- McKinistry, R., J. McElfish, and **M. Jacobson**. 2006. Biodiversity protection through acquisition of land or development rights and management to conserve biodiversity: A case study using Pennsylvania. P. 299-351 in *the biodiversity handbook*. Environmental Law Institute, Washington, DC.
- McKinistry, R., J. McElfish, and **M. Jacobson**. 2006. Designing and financing transactions to conserve biodiversity and lands important to biodiversity. P. 353-272 in *the biodiversity handbook*. Environmental Law Institute, Washington, DC.
- Sullivan, K., P. Smallidge, J. Finley, and **M. Jacobson**. 2004. *Forest resource management: A landowner's guide to getting started*. Natural Resource, Agriculture and Engineering Service (NRAES-170), Ithaca, NY.
- Sharma, N., R. Rowe, K. Openshaw, and **M. Jacobson**. 1992. World forests in perspective. P. 17-32 in Sharma, N. (ed.) *Managing the world's forests*. World Bank, Washington, DC.
- Jacobson, M.** 1992. World forestry data—statistical appendix. P. 535-597 in Sharma, N. (ed.) *Managing the world's forests*. World Bank, Washington, DC.

Sharma, N., R. Rowe, K. Openshaw, and **M. Jacobson** (Lead authors). 1991. The forest sector: A World Bank policy paper. World Bank, Washington, DC.

Extension Materials:**Energy:**

Willow Harvesting Equipment Considerations, 2016
Shrub Willow Enterprise Budget, Penn State, 2014
Miscanthus Enterprise Budget, 2014
Switchgrass Enterprise Budget, 2014
NEWBio Energy Crop Profile: Shrub Willow Fact Sheet 2012
NEWBio Energy Crop Profile: Miscanthus Fact Sheet 2012
NEWBio Energy Crop Profile: Switchgrass Fact Sheet 2012
Tax treatment of natural gas. Marcellus Shale Fact Sheets series 2010
Natural gas exploration: A landowner's guide to financial management. 2009

Websites and Videos:

Timber market report. Quarterly data of stumpage and mill prices in Pennsylvania 1999-2020
Making estate planning more accessible for forest landowners: An online learning module on conservation easements. National Learning Center for Private Forest and Range Landowners 2004
Pennsylvania's forest history video. Co-produced a video on the history of Pennsylvania's forests. 2002
Forest Internet Explorer website. 2001.

Forest Finance and Economics:

Forest Finance 8. To cut or not to cut: the harvest decision for landowners. 2009
Forest Stewardship 13: Estate planning. 2007
Non-timber forest products from Pennsylvania. 2. goldenseal (*Hydrastis canadensis*). 2006
Forest Finance 7: Tree shelters: A multi-purpose forest management tool. 2005
Timber taxation: A general guide for forestland owners. 2005
A guide for the forestry community in dealing with timber harvesting ordinances. 2004
Forest Finance 6: Leasing your land for hunting, income and more. 2004
Forest Finance 5. Opportunities from American ginseng husbandry in Pennsylvania. 2004
Forest Finance 4: Understanding Forest property tax assessment in Pennsylvania. 2003 Sustainable forestry. From the Woods Series for Youth. 2003
Forest Finance 3: Keeping records of forest management activities. 2004
Forest Finance 2. Deer fencing: Does it pay? 2000
Timber harvesting in Pennsylvania. 2001
Timber harvesting model ordinance. 2001
Forest Finance 1. Economics of sustainable timber harvesting. 2000
Where does a forest landowner find forestry help? 2000
Comparing values of timber production to agricultural crop production. 1999
Why invest in timber? 1999
Ecosystem management as a basis for forest stewardship on private lands. 1998
12 marketing tips for increasing your returns from small woodlots. 1998
Understanding tax deductions from timber losses. 1989
Understanding county forest property value assessments. 1998
Estimating the profitability of your non-timber forestland enterprises. 1998
The taxpayer relief act of 1997: What is in it for the private forest landowner? 1997

FUNDING

- National Science Foundation, AccelNet-Implementation: US-Africa Sustainable Food Systems through Water-Energy-Food Nexus Networking (SustainFood), 2020-2027, \$2,000,000.00, Lead PI – 10%
- Pennsylvania Department of Conservation and Natural Resources (DCNR), Economic impact of Expanded All-Terrain Vehicles (ATV's) in Pennsylvania, 2022-2024, \$107,812, Lead PI – 60%
- Penn State Strategic Initiative, A Systems Approach for Meeting Local and Global Food-Energy-Water Nexus Challenges, 2019-2024, \$250,000, Co-PI 50%
- Open Philanthropy Foundation, Food Resilience in the Face of Catastrophic Global Events, 2020-2024, \$3,064,660, Co-PI 10%
- Belmont Forum - National Science Foundation, Management of Disaster Risk and Societal Resilience (MADIS), \$300,000, 2020-2024, Lead PI 50%
- USDA, Mid-Atlantic Sustainable Biomass for Value-added Products Consortium (MASBio), 2022-2025, \$1,445,374, Co-Investigator 10%
- Water Research Commission - South Africa, From theory to practice: developing a case study and guidelines for water-energy-food (WEF) nexus implementation in southern Africa, 2020-2023, \$140,000, Collaborator– 5%
- Maria Sibylla Merian Institute for Advanced Studies in Africa, interdisciplinary Fellow Group on 'Sustainable Rural Transformation'. 2019.2020, \$10,000.
- USDA Forest Service, Evaluating the Feasibility of a Pennsylvania Forest Carbon Cooperative, 2022-2023, \$50,000, Co-PI - 15%
- Penn State Institute for Energy and Environment, Analyzing the adoption of solar irrigation pumps in India within the food-energy-water: implications for climate change and groundwater depletion, 2021-2022, \$29,479, Collaborator 15%
- Freiburg – Penn State Collaboration Development Program, Framing and Analyzing Novel Interventions for Sustainable Communities in Africa, 2019-2022, \$30,000, Co-PI 50%
- PSU-OPP Wastewater Management Committee, Forest Health at the Living Filter, 2019 – 2022, \$87,047, Co-PI 30%
- American Herbal Products Association, Investing in forest and communities: Mapping and managing sustainable supply chain for forest medicinal plants, 2019-22, \$64,326, Co-PI 50%
- USAID Peer, Adoption and Scale-Up of Charcoal Alternatives in Zambia, 2019-2021, \$199,914, Collaborator 10%
- Penn State Institute for Energy and Environment, Characterizing Food-Energy-Water Systems in Ethiopia, 2019 – 2021, \$50,000, Co-PI 40%
- McIntire- Stennis, USDA, Adding value to low use wood from PA Forests, 2019-2020, \$14,245, Co-PI 20%
- College of Agricultural Sciences, Strategic Networks and Initiatives, Building a food-water-energy nexus community for transformative and convergent research, 2019-2020, \$10,000, Lead PI 20%
- PA Department of Agriculture, Phytochemistry and economic importance of ramps as a specialty crop, 2018-2020, \$40,000, Co-PI 20%
- USDA NIFA, Case Study to Assess the Costs of the Appalachian Regional Reforestation Initiative's (ARRI) Forest Reclamation Approach, 2018-2019, \$87,256, Lead PI 100%,
- Gatsby Foundation, Analysis of Eucalyptus production as feedstock for pellet production in Kenya, 2015, \$25,000, Lead PI 100%
- World Agroforestry Centre, A review of Croton Megalocarpus production with a focus on Eco Fuels Kenya (EFK) operations, 2015, In kind host during sabbatical.
- USDA APHIS, Predicting the Cumulative and Ecological Impacts of Pests and Pathogens in the Forest of Eastern United States, 2012-2015, \$522,298, Lead PI 50%
- USDA AFRI, NEWBio: Northeast Woody/Warm-season Biomass Consortium, 2012-2017, \$10 million, Co-PI 5%

- USDA Forest Service, Forest stewardship—continuing awareness and knowledge program support, Annually 1999-2014, \$150,00 annually, Co PI 10%
- USDA APHIS, Potential and economic impacts of a regional outbreak of the Asian Longhorned Beetle, 2010-2012, \$136,156, Lead PI 30%
- USDA NIFA, Farming Forests: An eXtension Community of Practice, 2011=2013, \$99,000, Co-PI 20%
- USDA Northeast Sun Grant, Genetic Improvement for yield and Establishment of Short Rotation Woody Biomass Crops on Marginal Land, 2011-2013, \$165,000, Co-PI 15%
- USDA Northeast Sun Grant, Determining costs, product recovery factors, and environmental impacts of biomass harvest treatments in Central Appalachian Forests, 2009-2011, \$95,925, Co-PI 20%
- USDA Forest Service. Chesapeake Bay Program, Forest and Farms: Working landscapes for water and ecology, 2010-2011, \$30,000, Co-PI 30%
- NE Sun Grant Initiative, Across the Supply Chain: Developing Education and Outreach in Forest Bioenergy, 2010-2011, \$30,000, Co-PI 30%
- World Bank PROFOR, Economic characteristics of forest sector fiscal policy reform in post-conflict countries, 2010, \$10,000, Lead Pi 100%
- Marcellus Center for Outreach and Research and Penn State Social Science Institute, Fiscal and community impacts from Marcellus shale development in Susquehanna and Washington counties, 2010, \$25,000, Co-PI 30%
- Pennsylvania Legislative Budget and Finance Committee, Examination of Current and Future Costs and Revenues from Forest Products, Oil, Gas and Mineral Extraction on Pennsylvania Game Commission Lands, 2010, \$95,669, Co-PI 20%
- American Chestnut Foundation, American chestnut restoration on surface mined sites in the Appalachian Region: Pennsylvania study, 2009-2010, \$25,000, Co-PI 10%
- Ford Foundation, Increasing the rural livelihood benefits from natural plant product ventures in Southern Africa: Case study analysis and business model, \$180,000, 2007-2009, Co-PI 20%
- World Bank IFC, Incentives to promote forest certification in Indonesia, 2007, \$15,000, Co-PI 50%
- USDA Foreign Agricultural Service, Borlaug African Women in Science Program, 2007, \$5,000, Lead PI 100%
- Pennsylvania DCNR—Wild Resource Conservation Fund, Taking stock of American ginseng in Pennsylvania, 2005-2007, \$50,000, Lead PI 50%
- National Commission on Science for Sustainable Forestry, Existing and potential incentives for practicing sustainable forestry on non-industrial private forest lands, 2004-2007, \$50,000, Co-PI 20%
- Rural Action NE SARE, Developing field days and workshops in agroforestry, 2006-2007, \$5,000, Co-PI 50%
- PA Hardwoods Development Council, Inventory and analysis of municipal forestry ordinances in Pennsylvania, 2006, \$11,000, Lead PI 100%
- USDA Sustainable Agriculture Education and Research (SARE), The how, when and why of forest farming, \$111,613, 2004-2006, Co-PI 20%
- USAID, Rural livelihoods consortium for applied research and technology transfer, 2005-2006, \$90,704, Collaborator 10%
- U.S. Fish and Wildlife Service, Development of a habitat conservation plan for the bog turtle (*Clemmys muhlenbergii*) in Pennsylvania and Delaware, 2003-2005, \$595,482, Collaborator 5%
- National Commission on Science for Sustainable Forestry, Existing and potential incentives for practicing sustainable forestry on non-industrial private forest lands, 2002-2004, \$50,000, Co-PI 20%
- Society of American Foresters, History of Pennsylvania forests (video), 2003, \$7,000, Co-PI 30%
- National Web-Based Learning Center. University of Tennessee, Making estate planning more accessible to forest landowners, 2003, \$11,000, Co-PI 50%
- USDA Forest Service, Penn's Woods: An auto tour of Pennsylvania forest demonstration sites, 2003, \$15,000, Co-PI 50%

Pennsylvania Department of Conservation and Natural Resources, Assessing impacts of public ownership of land upon local governments and communities in Pennsylvania, 2002-2003, \$34,836

USDA CREEES, Northeast Forest*A*Syst, 2002-2003, \$23,000, Co-PI 20%

USDA Forest Service Southern Research Station, Analysis of forest property taxes on long-term forest management, 2002-2003, \$38,031, Co-PI 50%

USDA Sustainable Agriculture Education and Research (SARE), Agroforestry and forest management: Sustaining small farms and creating learning communities in the Northeast, 2001-2003, \$128,742, Co-PI 20%

USDA SARE, Linking goat producers and woodlot owners: A team approach to woodland brush control, 2001-2003, \$118,331, Co-PI 10%

Pennsylvania Department of Conservation and Natural Resources, Emphasizing Forest stewardship: A direct mail campaign, 2002, \$49,976, Co-PI 25%

National Commission on Science for Sustainable Forestry, Survey the lessons learned about managing forests for biodiversity and sustainability based on practical experiences, 2001-2002, \$249,987, Co-PI 10%

USDA Forest Service, Wood Education and Resource Center, Building sustainable communities in forested regions, 2000-2002, \$84,356, Collaborator 10%

Society of American Foresters, Viewing sustainable forestry through virtual tours of demonstration forests, 2000-2001, \$50,000, Co-PI 15%

USDA Forest Service, Wood Education and Resource Center, Estate planning opportunities and strategies for private forestland owners in the Northeast, 2000-2001, \$22,000, Co-PI 50%

USDA Forest Service Northeastern Area State and Private Forestry, Impact of forest property taxes in Pennsylvania, 2000-2001, \$30,000, Co-PI 50%

Northeast Regional Center for Rural Development, Community-based forestry cooperative for certified wood, 1999-2000, \$25,000, Collaborator 10%

Pennsylvania Hardwood Development Council, Assessment of Pennsylvania's forest property tax, 1999-2000, \$33,915, Co-PI 50%

CONFERENCE PRESENTATIONS

Congrés International de l'Arganier . May 9, 2026). Table Ronde sur l'Agroforesterie. Agadir, Morocco

Mohammed VI Polytechnic University (UM6P) Science Week. March 31, 2026. Panel Discussion on the Importance of Systemic Thinking in Higher Education

Trans-Sahara Project Expert Lecture Series. March 13, 2026. From Neglect to Nexus: Revaluing Traditional Dryland Agroforestry Systems

National University of Science and Technology Special Lecture Series. March 6, 2026. From Neglect to Nexus: Revaluing Traditional Dryland Agroforestry Systems in Zimbabwe. Bulawayo Zimbabwe

University of Dodoma Special Lecture Series. February 27, 2026. From Neglect to Nexus: Revaluing Traditional Dryland Agroforestry Systems in Tanzania

International Argan Center (ANDZOA). January 29, 2026. Agroforestry in arid areas: concepts, practices, and prospects for the argan ecosystem. Agadir, Morocco

Agriculture University Jodhpur Special Lectured Series. December 29. 2025 The Neglect and Promise of Traditional Semi-arid Agroforestry Systems for Improving Livelihoods

XIX World Water Congress December 1-5, 2025. Panel discussion on SustainFood project. Marrakech, Morocco

World Congress on Agroforestry (WCA2025). October 20, 2025. The Neglect and Promise of Traditional Semi-arid Agroforestry Systems for Improving Livelihoods. Kigali Rwanda

Systems Science Community of Practice Workshop. May 20-23, 2025 Presented on WEF Nexus, forestry and teaching global agricultural systems, Ben Gurier, Morocco

- The Global FEWture Alliance**, Second Annual Symposium, April 23-24, 2025, The SustainFood platform. University of Maryland
- Adaptation of African Agriculture (AAA) Ministerial**, April 22, 2025, Agroforestry for food security and climate resilience in Africa: Bridging science and policy. Meknes
- Dresden Nexus Conference 2025**, April 9, 2025, Enhancing Drought Resilience through the WEF Nexus: A Case Study of Smallholder Farmers in Çanakkale, United Nations University-FLORES, Germany.
- Dresden Nexus Conference - Nexus Implementation: Potential and Opportunities**. November 5-6 2024. What makes a Nexus case study, and what is a Nexus application?
- WEFE NEXUS International Conference**, themed Panel on Exploring and Bridging Nexus for a Sustainable Future Rabat. Morocco
- WEFE Nexus Forum**, February 5-6 2025. Facilitate panel on financing mechanisms and presented on emerging technologies and their impact on increasing resilient and sustainable agriculture. Tangier, Morocco
- Informs Annual Meeting**. October 20, 2024. A Decision Support System for Improving Drought Resilience under Climate Change, 4, Informs. International. Seattle.
- Sustainability Research + Innovation Congress**. June 11, 2024. Management of Disaster Management and Societal Resilience. Sweden
- UM6P CAES X-Change – engaging with global experts**. April 18, 2024. UM6P, Morocco, Africa and Beyond – Building Sustainable Agriculture, UM6P, Morocco
- 5th Mediterranean Water Forum. Tunisia**. February 5-7 2024. The SustainFood project and networking opportunities
- Masterclass in Nexus WEFE in Development: Water-Energy-Food-Ecosystems in the South Mediterranean**. July 2023. Understanding the WEF Nexus and the Challenges of Nexus Analysis, Cairo Egypt
- Sustainability Research & Innovation Congress 2023 (SRI2023) Africa satellite**. June 2-22, 2023. Port Elizabeth South Africa. Collaborative Climate Adaptation for food security in the African Water-Energy-Food Nexus Using Design Thinking and Systems Modeling
- Sustainability Research & Innovation Congress 2023 (SRI2023) Africa satellite**. June 2-22, 2023. Port Elizabeth South Africa. Drought Resilience in Africa
- COST Action CA20138 Network on water-energy-food nexus for a low-carbon economy in Europe and beyond – NEXUSNET 1st training school** entitled “Nature and people in the Nexus” Lisbon Portugal May 2-26 2023. WEF nexus approaches and economic tradeoffs.
- USIAD Morocco Climate Action Consultative Workshop** March 20 - 21, 2023 in Rabat, Morocco. Moderator on session on WEF nexus.
- European Agroforestry Federation Conference**. Sardinia, Italy. May 16-20 2002. Building a global carbon database to characterize agroforestry as a natural climate solution.
- The RUFORUM 18th Annual General Meeting**, Harare Zimbabwe. Dec 12-15, 2022. Student community engagement for achieving sustainable food security through water-energy-food nexus approach.
- Dresden Nexus Conference 2022: Biodiversity - Stewardship for Vital Resources**. May 23-25 2022. Water-energy-food nexus approaches to facilitate smallholder agricultural technology adoption.
- Dresden Nexus Conference 2022: Biodiversity - Stewardship for Vital Resources**. May 23-25 2022. From theory to practice: Status of WEF nexus research and implementation in Africa.
- Dresden Nexus Conference 2022: Biodiversity - Stewardship for Vital Resources**. May 23-25 2022. Innovation Challenges for the Resource Nexus in the Global South.
- Schreyers Honors College World View Seminar Series**. November 17, 2020 and March 25, 2021. Forests, Foraging and Food: linking forests to sustainable and healthy food systems.

- SDSN - America's Zero Carbon Action Plan.** November 24, 2020. Accelerating Sustainable Land Use Policies in the United States.
- Mid-Atlantic Biosolids Association Summer Symposium.** July 2, 2020. Sustainable Agroforestry: The Nexus of Food, Water and Energy in Forestry Management.
- Maria Sibylla Merian Institute for Advanced Studies in Africa (MIASA).** Ghana. May 26-27, 2020. Sustainable Rural Transformation in Africa. Farmer Behavior and Rural Transformation in a Water-Energy-Food (WEF) Nexus Context.
- Regional Workshop on Building Synergies in WEF Nexus Research. South Africa.** March 5-6, 2020. Keynote: WEF Nexus Africa Initiative
- RARSUS Water and Energy Online Summer School, Mali** Oct 14, 2019 "Water energy food nexus?"
- University of Gondar.** Ethiopia. August 12, 2019. "Water energy food nexus for Africa Initiative."
- World Agroforestry Congress.** May 2022, 2019. Montpellier, France, the (un)broken promise of agroforestry: case study of improved fallows in Zambia.
- Centre for Complex Systems in Transition.** Stellenbosch University. South Africa. March 18, 2019. "A Systems Approach for Meeting Local and Global Water-Energy-Food Nexus Challenges."
- Southern African Institute of Forestry.** Stellenbosch, South Africa. March 14, 2019. "Linking Forest Systems for meeting Water-Energy-Food Nexus Challenges."
- Dialogue on the status of water-energy-food nexus in South Africa.** Water Resources Commission. Pretoria South Africa. February 22, 2019. "Building the Penn State Africa water energy food nexus initiative."
- Workshop on Water-Energy-Food Nexus in sub-Saharan Africa.** International Institute for Tropical Agriculture, Ibadan, Nigeria. June 26-27, 2018. "Overview of water energy food nexus" International Institute for Tropical Agriculture, Ibadan, Nigeria."
- European Agroforestry Conference (EURAF), Montpellier France May 22-25, 2016.** State of Agroforestry in United States.
- Poplar/Willow Forum. Portland OR, April 11-13, 2016.** Building Bioenergy Opportunities Through Payments for Ecosystem Services in the Chesapeake Bay Region
- International Society of Forest Resource Economics.** Raleigh NC. March 4-6, 2016. Economics of Biomass Production on Marginal Lands
- World of Wood International Conference, State College PA. July 19-22, 2015.** Other Biomass Fuel Sources
- IUFRO World Forestry Congress, Salt Lake City. October 5-10, 2014.** A Sustainable Framework for Assessing Marginal Lands Used for Planting Bioenergy Crops.
- Non-Timber Forest Products (NTFPs) National Assessment Workshop. Raleigh NC Sept 10-11, 2014.** "NTFP contribution to Farm/household Finance
- Short Rotation Woody Crops Working Group. Seattle WA. July 17-19, 2014.** "Economics of growing energy crops on marginal lands."
- LACAf/GSB Workshop on Biofuels for Latin America and Africa. Kruger National Park, South Africa** April 1-4, 2014. "Socioeconomic and Environmental issues facing biofuel development in Africa."
- Society of American Foresters 2006 National Convention. Charleston, SC. Oct. 23-26.** "Economics of planting energy crops on marginal lands."
- 9th International Conference on Biomass for Energy."** Kyiv, Ukraine, Sept. 24-25, 2013. Producing energy crops on marginal lands: The NEWBio project.
- NEWBio Consortium. Business of Biomass; Pellets and Power.** Morgantown WV. June 25, 2013. "New crops for bioenergy
- North American Agroforestry Conference.** Charlottetown, Canada. June 18-21, 2013. "Energy Crops on marginal lands."
- Private Forest Landowners Conference.** Altoona PA, May 10-11, 2013. Two talks: "Timber taxation" and "dealing with trespass and other liabilities."

- National Energy Extension Summit.** Fort Collins, Co. April 29- May 1, 2103. "Extension experiences with AFRI CAP projects."
- Assessors Association of Pennsylvania Annual Conference,** April 26, 2013. Seven Springs, PA. "Property taxation"
- Pennsylvania Land Trust Association Annual Conference.** April 5-5, 2013. State College "Non timber forest products"
- Delaware Recreation and Parks Society 33rd Annual Conference** February 27-28, 2103. Lewis DE. "Economics of Agroforestry and Green Infrastructure"
- NEWBio Consortium, Business of Biomass: Supply Chains.** State College, PA. April 23, 2013. "NEWBio extension activities."
- Short Rotation Woody Crop Working Group,** Oak Ridge TN, November 6,2012 NEWBio extension.
- NEWBio Consortium, Perennial grass short course.** Meadville, PA October 25, 2102. "NEWBio overview."
- European Agroforestry Association Inaugural Conference,** Brussels BE. October 7-9, 2012. "Agroforestry in the United States."
- National Sungrant Conference.** New Orleans, LA. October 3, 2102. "NEWBio extension activities."
- Ag Progress Days, Energy Symposium,** August 16, 2012, Rock Springs, PA. "NEWBio. and willow crop production"
- National Association of Royalty Owners.** State College January 2012. "Gas taxation"
- USDA Interagency Research Forum of Invasive Species.** Annapolis, MD. January 1-13, 2012. "Potential impacts of Asian Longhorned Beetle in northeastern forests."
- Penn State Marcellus Summit,** State College. November 17-18, 2011 "Fiscal impacts of gas development on local municipalities"
- Society of American Foresters 2011 National Convention. Honolulu, HA.** November 2-5, 2011. "An evaluation of agroforestry programs in USA and Canada"
- Penn State Symposium,** September 30, 2011 Discussant. "Diverse Landscapes of Ukraine: Celebrating Twenty Years of Ukrainian Independence"
- PA Gas Expo 2011,** Indiana PA, July 21, 2011 "Gas taxation for landowners"
- Lands for Tomorrow Conference,** Farmville, VA, June 28–29, 2011. "Economics of agroforestry." .
- North American Agroforestry Conference,** Athens GA, June 6–9, 2011. "The state of agroforestry extension programs in USA and Canada."
- Marcellus Shale Academic Applied Research Conference,** Altoona, May 10–11, 2011. 'Fiscal impacts of gas on local governments."
- Assessors Association of Pennsylvania Spring Conference.** Erie, PA. May 6, 2011. "Forest valuation."
- Ecological Society of America.** Mid-Atlantic Chapter Meeting. Montclair, NJ. April 9, 2011. "At what cost: Economics of Marcellus Shale development."
- American Society of Mining and Reclamation.** Joint Mining Reclamation Conference. Pittsburgh, PA. June 5-11, 2010. "Reforestation of abandoned mines".
- 11^h North American Agroforestry Conference.** Columbia, MO, OR. June 1-4, 2009. "Economics of wild ginseng production In Pennsylvania."
- IUFRO 3.08 Small-scale Forestry, IUFRO 6.12. Seeing the Forest Beyond the Trees: New possibilities and expectations for products and services from small-scale forestry** Morgantown, WV. June 8-11, 2009. "Utilization of Non-timber Forest Products in Bangladesh"
- Pennsylvania Fuel for Schools and Beyond.** St. Marys, PA. Nov. 7, 2008. "Biomass economics."
- IUFRO 3.08 Small-scale Forestry, IUFRO 6.12 Analysis and Evaluation of Forest Policies and Programs and IUFRO Task Force on Traditional Forest Knowledge.** Gerardmer, France. June 22–29. "Establishing conservation easements on forested riparian buffers: Opportunities for long-term streamside protection."
- PA DCNR Bureau of Forestry.** Summer Staff Meeting. State College, PA. July 21, 2008. "Overview of MPC and forestry ordinances."

- Delaware Valley Green Building Council Webinar.** Jan. 9, 2008. "The FSC certification process and its effectiveness in promoting sustainable management of tropical forests."
- Association of Consulting Foresters.** State College, PA. July 2008. State of the forestry Industry in PA and around the world.
- Hardwoods Development Council.** State College, PA. Feb. 14, 2008. "Forest property tax update."
- Northeastern Pennsylvania Logging Council.** Tunkhannock, PA. July 29, 2008. "Logger surveys overview."
- World Bank Conference.** Jakarta, Indonesia. Dec. 4–8, 2007. "Comparison of certification in four selected countries: Links to Indonesian experience."
- Symposium on Promoting Forestry in South Africa.** Stellenbosch University and Southern African Institute of Forestry. Apr. 27, 2007. "Promoting forestry in the global context."
- International Plantation Certification Symposium 2007.** Stellenbosch, South Africa. Sept. 18–21, 2007. "Role of incentives to promote certification: Case studies from Bolivia, Canada, Malaysia and Russia."
- Livelihoods and Poverty Alleviation Conference.** Rhodes University, South Africa. Feb. 6–10, 2007. "Comparison of non-timber forest products in Africa and Appalachia: Links between Natural Resources."
- Society of American Foresters Allegheny Division Conference.** Lancaster, PA. Feb. 15–16, 2007. "Property tax reform in PA."
- Society of American Foresters 2006 National Convention.** Pittsburgh, PA. Oct. 25–29. "Financial incentives for practicing sustainable forestry on family forestlands."
- Society of American Foresters 2006 National Convention.** Pittsburgh, PA. Oct. 25–29. Panel discussion of nontimber forest products: "Financial incentives for practicing sustainable forestry on family forestlands."
- Small- and Medium-forest Enterprise Development for Poverty Reduction Conference.** Turrialba, Costa Rica. May 23–28, 2006. "Comparison of nontimber forest products in Africa and Appalachia."
- PFA Forests for Life Jubilee.** Harrisburg, PA. Sept. 23, 2006. "What to do with mature timber and other marketable forest products."
- Assessors Association of Pennsylvania Fall Conference.** State College, PA. Nov. 2, 2005. "Appraisal of timber and timberlands."
- Ibberson Forestry Forum.** State College, PA. Nov. 2, 2005. "What landowners should know before selling timber: Tax considerations."
- 7th North American Agroforestry Conference.** Rochester MN, June 15–20, 2005. "Production and prices of non-timber forest products."
- Forest Resources Issues Conference.** State College, PA. Apr. 26–27, 2005. "Pennsylvania's forest resources: Assessing their condition."
- Pennsylvania Land Conservation Conference.** Lancaster, PA. Apr. 9, 2005. "Conservation easements as an estate planning tool."
- Timber Expo.** June 17, State College PA. 2005. "Dealing with local timber harvesting ordinances." Agriculture Progress Days.
- National Agroforestry Conference.** Rochester, MN. June 12–15, 2005. "Economics of botanicals in eastern hardwoods."
- Timber Framers Guild, 20th Eastern Conference.** Seven Springs, PA. Oct 29–31, 2004. "Evaluation, economics, and management of forest resources." .
- 1st World Congress on Agroforestry.** Orlando, FL. June 27–July 2, 2004. "Teaching agroforestry: Breadth vs. depth."
- 4th Natural Resources Extension Professionals Conference.** Wheeling, WV. June 15–19, 2004. "A case for consumer-driven extension programming: Agroforestry in Pennsylvania." Paper presented by Nicole Strong.
- 4th Goddard Forum on Developing Sustainable Communities.** State College, PA. May 10–12, 2004. "Integrating trees and crops across landscapes." .

- 4th Goddard Forum on Developing Sustainable Communities.** State College, PA. May 10–12, 2004. “Indicators for managing biodiversity on forest lands.”
- Human Dimensions of Family and Farm Forestry International.** Pullman, WA. Mar. 29– April. 1, 2004. Symposium: “Attitudes and constraints to agroforestry in different countries: Examples from South Africa and USA.”
- Forest Property Tax Issues.** State College, PA. Mar. 23, 2004. “Does Clean and Green work?”
- Pennsylvania Association for Sustainable Agriculture Annual Symposium.** State College, PA. Feb. 5–6, 2004. “Making money from agroforestry in Pennsylvania.”
- 1st Annual Ibberson Forestry Forum.** State College, PA. Oct. 30, 2003. “Private property issues on forestlands in Pennsylvania.” .
- Society of American Foresters Annual Convention.** Buffalo, NY. Oct. 25–28, 2003. “Private forestry and local government: Perverse incentives in Pennsylvania.”
- World Forestry Congress.** Quebec, Canada. Sept. 21–25, 2003. “Water policy and pricing timber plantations in South Africa: Implications for sustainable forestry.”
- 8th North American Agroforestry Conference.** Corvallis, OR. June 23–25, 2003. “Teaching agroforestry.”
- 8th North American Agroforestry Conference.** Corvallis, OR. June 23–25, 2003. “Assessing agroforestry potential among woodland owners and farmers in Pennsylvania.”
- PA State Association of Township Supervisors 81st Annual Convention and Trade Show.** Hershey, PA. Apr. 7–8, 2003. “Public lands and payments in-lieu of taxes.” Paper presented by R. McKinstry and M. McDill.
- Pennsylvania Land Trust Association Annual Meeting.** Bethlehem, PA. Mar. 21–22, 2003. “Working forest conservation easements.”
- Southern Forest Economic Workers Conference.** New Orleans, LA. Mar. 17–18, 2003. “An evaluation of forest property taxes in the United States.”
- Society of American Foresters Annual Convention.** Winston Salem, NC. Nov. 15–20, 2002. “Private forestry in the 21st Century.” Organized and facilitated panel discussion.
- 4th Biennial Conference on University Education in Natural Resources.** Raleigh, NC. Mar. 14–17, 2002. “Internet-based forestry extension.”
- Association of Natural Resource Extension Professionals Biennial Conference.** Naples, FL. June 2–5, 2002. “Marketing forest stewardship: Developing a stronger educational message.”
- PA State Association of Township Supervisors (PSATS) 79th Annual Convention and Trade Show.** Hershey, PA. Mar 18–19, 2002. “Timber harvesting ordinances.”
- Allegheny Society of American Foresters Winter Meeting.** Hagerstown, MD. Feb. 26, 2002. “New issues in forest economics.” .
- PA Urban and Community Forestry Conference.** State College, PA. Oct. 19, 2001. “Timber harvesting ordinances.” .
- Northeast Agroforestry and Carbon Conference.** Binghamton, NY. Oct. 3, 2001. “Role of forest property taxes in forest management.” .
- PA State Association of Township Supervisors (PSATS) 79th Annual Convention and Trade Show.** Hershey, PA. Apr. 23–24, 2001. “Does Clean and Green work?”
- Forest History Society Annual Convention.** Durham, NC. Mar. 28–31, 2001. “History of forest property taxation in PA.”
- Forest Fragmentation 2000: Sustaining Private Forests in the 21st Century.** Annapolis, MD. Sept. 17–20, 2000. Planning committee and lead discussant for panel on “Private land solutions.”
- 8th International Symposium on Society and Resource Management.** Bellingham, WA. June 17–22, 2000. “A community-based forestry cooperative for certified wood.”
- Southern Outreach Conference.** Birmingham, AL. Jan. 11, 1999. “Extension systems for landowner assistance.” .

- Appalachian Society of American Foresters Conference.** Charleston, SC. Jan. 22, 1999. "Landowner attitudes toward joint planning and coordination across NIPF owners."
- Keep America Growing Conference.** Philadelphia, PA. June 6–9, 1999. "Reinventing the small private woodlot and making it commercially productive."
- 2nd Biennial Conference on University Education in Natural Resources.** Logan, UT. Mach, 1998. "Educating the educators: Graduate student involvement in teaching natural resources."
- Forest Landowners Association, Southern Forestry Conference.** Orlando, FL. April 1998. "Can forest certification work?"
- SFRC/SAF Spring Symposium.** University of Florida, FL. April 1998. "Historical trends in wood production in the Southeast."
- 3rd IUFRO Extension Working Party Symposium.** Blacksburg, VA. July 19–24, 1998. "Developing extension programs for private forest landowners in the Southeast: Are we putting the cart before the horse?"
- 2nd IUFRO Extension Working Party Symposium.** Nairobi, Kenya. July 1997. "Ecosystem management on private lands."
- Symposium on Nonindustrial Private Forests.** Washington, DC. Feb. 1996. "Landowner attitudes about landscape-level management."
- 6th International Symposium on Society and Resource Management.** Pennsylvania State University, PA. May 1996. "Policy implications of landowner attitudes toward landscape-level management."
- Society of American Foresters, Annual meeting of the Appalachian Division.** Kitty Hawk, NC. 1994. "What is ecosystem management?"
- West Virginia Wood Industry and International Trade,** Bluefield State College, WV. 1992. "Managing the world's forests."

TEACHING

Penn State:

EMGT 830 Ecosystem Economics and Management (online Master of Professional Studies) 2021-2024

INTAD 577 Global Agricultural Systems 2018 -2024

FOR 440 Forest Conservation and Economics 2008- 2024

FOR 488Y Global Forest Conservation (including embedded course trips to South Africa, Mozambique, and Morocco) 2003-2018

FOR 418 Agroforestry: Science and Practice 2002-2020

Guest lectures in FOR 480 Natural Resource Policy; FORT 250 Forest Management and Economic (at Mont Alto);

FOR 430 Conservation Biology; FOR 497 WEF nexus

University Mohammed VI Polytechnic (UM6P)

Systems Thinking in Agriculture (2025)

Stellenbosch University

Forest Economics 2007

University of Florida

Natural Resource management capstone course 1997-1999

North Carolina State University

International/Tropical Forestry 1994-1997

Introduction to Natural Resources 1994-1997

GRADUATE STUDENT ADVISING AT PENN STATE

Advisor

- Lisa Grab (MS 2024) ATV economic impacts

- Mallory Wahlstrom (MS 2023) Bioenergy
- Jacob Johnson (Ph.D.2023: Zambia aquaculture and agroforestry
- Grady Zuiderveen (Ph.D. 2019) Goldenseal (*hydrastis canadensis* L.) Phytochemistry, trade, and habitat: 6 implications for conservation and forest-based cultivation
- Wei Jiang (Ph.D. 2017). Biomass crops on marginal lands
- Patrick Boleman (M.S. 2016) Ecosystems services for energy crops in Chesapeake Bay
- Kyle Kovach (M.S.2016) Invasive species cumulative impacts on eastern forests
- Andrea De Stefano (M.S. 2014) Agroforestry and carbon sequestration
- Shiba Kar (Ph.D.2010) Non-timber forest product (NTFP) utilization and Livelihood development in Bangladesh
- Eric Burkhart (Ph.D.2008) Conservation through Cultivation: Economic, socio-political, and ecological considerations regarding the adoption of ginseng forest farming in Pennsylvania
- Anna Kelso (M.S. 2006) Agroforestry in South Africa
- Emilie Cooper (M.S. 2005) The attitudes and opinions of Pennsylvania Conservation Reserve Enhancement Program (CREP) participants towards riparian buffers and conservation easements
- Dave Ryan (M.F.R. Fall 2005) Regeneration on abandoned surface mine lands
- Nicole Strong (M.S. Summer 2004) A case for consumer-driven extension programming: Assessing agroforestry adoption potential in Pennsylvania.
- Irene Morales (M.F.R. Summer 2004) Assessing community tourism associations for a conservation partnership with L. Amistad international park, Costa Rica
- Audrey Broucek (M.S and J.D joint degree 2004) Examination of Current and Future Costs and Revenues from Forest Products, Oil and Gas Extraction on Pennsylvania Game Commission Lands (PGC)
- Cathy Seyler (M.S. Summer 2001) Approaches for resolving land use issues at the local level: Timber harvest conflicts
- Jonathan High (M.S. Fall 2001) Forest-based Internet extension (including CD)

Committee Member

- Paige Price (PhD Agriculture Sociology)
- Francis Akyirem (MS Biosystems Engineering)
- Mashuur Rahman PhD Biosystems Engineering)
- Marvellous Faluyi (MS Biosystems Engineering)
- Jhony Benavides Bolanos (Ph.D. Soil Science)
- Karen Lopez Olmedo (MS Biosystems Engineering)
- Praharsh M. Patel (Ph,D. Natural Resource Economics)
- Forrest Stanger (Ph.D. Rural Sociology)
- Kelly Chege (Ph.D. Agricultural and Biological Engineering)
- Azadwinder S. Chahal (Ph.D. Agricultural and Biological Engineering 2020)
- Teal Jordon (M.S. Forestry 2020)
- Debasish Saha (M.S. Agricultural Engineering, 2015)
- Chieh-Chung Yang (M.S. 2014)
- Apoorva Karamchandi (M.S. Agricultural Engineering, 2013)
- Norzanalisa Saadun (Ph.D. 2013)
- Margaret Mwangi (Ph.D. Geography 2012)
- Nceba Ngcobio, (M.Sc.2012) Stellenbosch University
- Chidiebere Ofoegbu (M.S. Stellenbosch University, 2010)
- Ann Quinion. (M.Sc., 2008) Stellenbosch University
- Lida Iavorivska (M.S 2010)

- Shawn Lehman (M.S.2005)
- Horacio Gilabert, (Ph.D. 2007)
- James Leary (M.S. 2006)
- Sonney George (PhD 2005)
- Emily Hansel (M.F.R. 2004)
- Correen Ripp (M.S,2004)
- Derald Hay (M.S and J.D joint degree 2004)

SELECTED SERVICE

Journal editors

Agroforestry Systems Journal. Associate editor (2008–2020)
 Small Scale Forestry Journal, Associate Editor and Board of Editors (2005-2015)

Expert Panels, Committees, Boards

Foundation for Food and Agricultural Research (FFAR) Panel Judge, Harvest for Health Breakthrough Crop Challenge (2024-2025)
 NSF AccelNet, Review panel member (2025)
 New Frontiers in Research Fund, 2023 International Joint Initiative for Research in Climate Change Adaptation and Mitigation Competition
 Advisory Board: African Research Universities Alliance (ARUA) Centre of Excellence in Energy based at Stellenbosch University (2017-2023).
 WEF Nexus Winter School for Southern Africa (2021-2023)
 National Screening Committee, Fulbright US Student Program, Review Panel (2017-2018)
 Ecosystem Management Advisory Committee Pennsylvania Department of Conservation and Natural Resources, Bureau of Forestry (2003-2023)
 Forest Stewardship Steering Committee Pennsylvania Department of Conservation and Natural Resources, Bureau of Forestry (2003-2023)
 Forest Legacy Program Committee Pennsylvania Department of Conservation and Natural Resources, Bureau of Forestry (2003-2023)
 National Woodland Owners Survey Technical Committee USDA Forest Service, State and Private forestry (2008)
 Pennsylvania Tree Farm System PA Coordinating Committee (1999-2005)
 Pennsylvania Sustainable Forestry Initiative Committee (1999-2017)
 National Research Foundation (South Africa) Plant Sciences Assessment panel (2016)
 Member 2012 Farm Bill Coalition American Forest Foundation. (2011)
 Advisory Board member University of Missouri, Center for Agroforestry. (2010-2015)
 President Association for Temperate Agroforestry. (2009– 2012)
 Board of directors Lumber Heritage Region of Pennsylvania, Inc. (2005–2007)
 Review panel Agriculture and Agri-Food Canada. Buffers on the agricultural landscape (2010).
 National Research Foundation, South Africa. Review for rating of professor at University of Pretoria (2010).
 External examiner University of Melbourne (2009)
 Co-supervisor and External examiner Stellenbosch University (2005- 2023)

University

Global Fellow (2017-present)
 College of Agricultural Sciences Ombudsman (2023-present)
 College of Agricultural Sciences Promotion and tenure Committee (2015-2017 and 2023)

Department Promotion and Tenure Committee (2007, 2020-2023)
Department Graduate Studies Qualifying Exam Committee (2002-2023)
College of Agricultural Sciences International Programs Advisory Committee (2000-2023)
University Global Partnerships & Strategy committee (2018-2023)
Chair, Goddard endowed chair search committee (2020)
Chair, Forest Ecosystem Management Faculty (2015- 2019)
Faculty Development Committee (2011–2014)
Social Science Research Institute / Children, Youth and Family Committee. Project Review Committee (2008–2010)
Alliance for Earth Sciences, Engineering and Development in Africa (AESEDA). Sustainable Resource Management Group (2008)
Member, International Programs. Marjorie Whiting Endowment Fund Committee (2009-2011)
Sustainable Agriculture Working Group (2003-2012)
Scholarship Committee (2010-2012)
Chair, Graduate Studies Committee, Ph.D. candidacy exams (2002–2008)
Member, International Programs Advisory Committee (2000–2007)
Member, Library Committee (2003–2006)