**Dalia Abbas, Ph.D.**

Email: daliaabbas@yahoo.com

Skype ID: daabbas

Tel.: (612) 819 0567

***Key strengths and interests****:*

* *Ecosystem services protection*
* *Forest operations and management*
* *Sustainability Sciences and modeling*
* *Green economy*
* *Sustainable value chain management*
* *Cost effective supply chain operations*
* *Life cycle assessment*
* *Water resources, quality and designated uses*
* *International development, trade and forestry*
* *Integrated environmental, economic and societal effects of bio-economies.*

**GRADUATE EDUCATION**

**Doctorate in Natural Resources Science and Management**: Economics, Policy, Management, and Society track. *University of Minnesota*, Department of Forest Resources, U.S.A.

 Graduate assistantships and fellowships received from the University of Minnesota.

*Areas:* natural resources ecological design and economic assessment of multiple-objective silvicultural systems that recognize new emerging bioeconomy potentials. .

 *Dissertation:* Harvesting Forest Biomass for Energy: An assessment of guidelines, logistics and costs

**Masters in Gender and Development**. *University of Sussex*, Institute of Development Studies, UK.

 British Government scholarship received for annually nominated 100 exceptional globally selected candidates. *Areas:* Environmental management, policy analysis, economic theories and accountability. *Thesis:* The Accountability of Non-governmental Organizations to employee Concerns.

**Bachelor in English Language and Literature**, *Ain Shams University,* Faculty of Arts,Egypt.

*Areas:* literature, Latin, German, French, linguistics, poetry, communications and literary criticism.

**Background**

Providing evidence-based criteria to help monitor, evaluate and design effective forestry supply and value chain programs is key to my background and experience. I seek to investigate the linkages between forestry programs and sustainable supply and value chains, circular bio-economy, forest operations management, wood, food, feed and fiber; water resources management; resource utilization strategies, waste reduction along the supply chain and sustainable development. As a result, I have built and maintained a nationally and internationally recognized program that addresses ecosystem services protection questions, operating in environmentally sensitive areas, cost and life cycle assessments, environmental risk assessment and management, the forest community and workforce education, health and safety and monitoring and evaluation. I employ multiple quantitative and qualitative data collection and research methods to help design programs and objectives, characterize criteria and attributes and evaluate the human landscape impacts at different scales.

I worked in international development projects in Africa, Europe and North America. In North America, I engage with underrepresented and indigenous population groups. For example, I investigated environmental problems linked with deforestation and the industrial effluents in water streams on First Nations lands in Canada. In the United States, I investigated the potential for biomass supply and utilization on tribal lands. I served as an NGO representative working with grassroots and in several United Nations fora. I serve as a national expert for the US Department of Agriculture’s Agro-ecosystems Services and Small Business Innovation program panels. I served as a consultant for the Global Environment Facility’s Independent Evaluation Office to evaluate World Bank funding in deforestation removal best management practices criteria along the supply chain of commodity crops programs. I am on the editorial board and peer review international environmental and ecological journals.

**PUBLICATIONS**

* Abbas, D., Di Fulvio, F. & Spinelli, R. 2017. European and United States Perspectives on Forest Operations in Environmentally Sensitive Areas. Scandinavian Journal of Forest Research Vol. 0 , Iss. ja,0
* Di Fulvio, F., Abbas, D., Spinelli, R., Acuna, M., Ackerman, P., Lindroos, O 2017. Benchmarking technical and cost factors in forest felling and processing operations in different global regions during the period 2013–2014. International Journal of Forest Engineering.
* FAO (2016). Forestry for a low-carbon future: Integrating forests and wood products in climate change strategies. <http://www.fao.org/3/a-i5857e.pdf> In collaboration with other internationally nominated authors FAO
* Abbas, D., & Clatterbuck, W. (2015). A Survey Analysis of Harvesting Logistics in Tennessee. *European Journal of Forest Engineering*, *1*(2), 84-92.
* Abbas, D., Handler, R., Hartsough, B., Dykstra, D., Lautala, P., & Hembroff, L. (2014). A survey analysis of forest harvesting and transportation operations in Michigan. *Croatian Journal of Forest Engineering*, *35*(2), 179-192.
* Handler, R. M., Shonnard, D. R., Lautala, P., Abbas, D., & Srivastava, A. (2014). Environmental impacts of roundwood supply chain options in Michigan: life-cycle assessment of harvest and transport stages. *Journal of Cleaner Production*, *76*, 64-73.
* APLU (2014). Science, Education and Outreach Roadmap for Natural Resources. Road Map for Natural Resources 2014**.** Co-Author with 35 National Scientists
* Abbas, D., Handler, R., Dykstra, D., Hartsough, B., & Lautala, P. (2013). Cost analysis of forest biomass supply chain logistics. *Journal of Forestry*, *111*(4), 271-281.
* Abbas, D., & Arnosti, D. (2013). Economics and logistics of biomass utilization in the superior national forest. *Journal of sustainable forestry*, *32*(1-2), 41-57.
* Becker, D. R., McCaffrey, S. M., Abbas, D., Halvorsen, K. E., Jakes, P., & Moseley, C. (2011). Conventional wisdoms of woody biomass utilization on federal public lands. *Journal of Forestry*, *109*(4), 208-218.
* Abbas, D., Current, D., Ryans, M., Taff, S., Hoganson, H., & Brooks, K. N. (2011). Harvesting forest biomass for energy–An alternative to conventional fuel treatments: Trials in the Superior National Forest, USA. *biomass and bioenergy*, *35*(11), 4557-4564.
* Abbas, D., Current, D., Phillips, M., Rossman, R., Hoganson, H., & Brooks, K. N. (2011). Guidelines for harvesting forest biomass for energy: a synthesis of environmental considerations. *Biomass and Bioenergy*, *35*(11), 4538-4546.
* Randy Kolka, Matt Powers, John Bradford, Brian Palik, Marty Jurgensen, Dalia Abbas, Tom Gallagher, Stephen Ambagis, Finto Antony, Lewis Jordan, Richard Daniels, Laurie Schimleck, Shane Botard, Francisco Aguilar, John Dwyer, Hank Stelzer, Alan Ek, Howard Hoganson, Anthony D'Amato, Andrew David, Michael Kilgore, Jinzhuo Wu, Jingxin Wang, Joseph McNeel, George Ice, Jeff Light, V Cody Hale, Tina Garland, Jeffrey McDonnell, John R Mount, Francis Frank Cuff, Kenneth Stumpf, Travis Rogers, Erik Schilling, Janine Salwasser, Nicolas Zegre, Loren Kellogg, Michael Goerndt, Patrick Miles, Stephen Shifley, Nianfu Song, Jonathan Bakker, Maria Petrova, Kevin Ceder, Eric Turnblom, Kozma Naka, Ramesh Sivanpillai, Christopher Dicus, Jonathan Large, Clint Isbell, David Weise, Robert Keefe, Anthony S Davis, Rajan Parajuli, Sun Chang, Joseph Roise, Chris Hopkins, Doug Duncan. Forest Management, Engineering, and Operations. Journal of Forestry, Volume 109, Number 8, December 2011, pp. 538-544(7)
* Demchik, M. C., Abbas, D., Current, D., Arnosti, D., Theimer, M., & Johnson, P. (2009). Combining biomass harvest and forest fuel reduction in the Superior National Forest, Minnesota. *Journal of Forestry*, *107*(5), 235-241.
* Abbas, D., Dutton, D, Canelon, Mulla, Nieber and Catalon 2010. Surface water quality Standards in Minnesota: Industrial, Irrigation, Wildlife and Livestock Uses. Minnesota Pollution Control Agency.
* Abbas, D. and Arnosti, D. 2009. Economics and Logistics of Biomass Utilization: The Superior National Forest. In The Future of Wood Bioenergy in the United States: Defining Sustainability, Status, Trends and Outlooks for Regional Development. *White Paper. The Pinchot Institute, DC.*
* Becker, D., Dalia Abbas, Kathleen E. Halvorsen, Pamela J. Jakes, Sarah M. McCaffrey,and Cassandra Moseley. 2009. Characterizing Lessons Learned from Federal Biomass Removal Projects. Joint Fire Science Program (USDA Forest Service and USDI Bureau of Land Management). JFSP Project 073208.
* Abbas, D., Current , Brooks and Arnosti 2008. The Loggers’ Voice. In Arnosti., Abbas, Current and Demchick. June 2008. Harvesting Fuel: Cutting Costs and Reducing Forest Fire Hazards Through Biomass Harvest. Technical Report submitted to the USDA Forest Service <http://www.forestrycenter.org/library.cfm?refID=103062>
* Arnosti, D., Abbas, D., Current, D. and Demchick, M. June 2008. Harvesting Fuel: Cutting Costs and Reducing Forest Fire Hazards Through Biomass Harvest. Technical Report submitted to the USDA Forest Service<http://www.forestrycenter.org/library.cfm?refID=103062>
* Abbas, D. and Steadman, D. 2003. Wood Market Study – Standards review (2003). Technical report to the United Kingdom Waste & Resources Action Programme

Courses Taught

Forestry Practices
Natural Resources Conservation
Environmental Economics and Management

Sustainable Bioenergy systems
Feedstock Supply Chain
Food Supply and Value Chain Management

Knowledge, power and politics

Expert Panels

• USDA SBIR Small Business Innovation Research panel reviewer February 2017.
• USDA NIFA Agroecosystems Management Program panel reviewer November 2016
• USDA NIFA Agroecosystems Management Program panel reviewer October 2015
• USDA NIFA, AFRI Bioenergy CAP Phase I Panel for M$10, February, 2012.
• Invited member to the Board of Natural Resources & Board on Oceans, Atmosphere, and Climate—Research, Education and Outreach Road Map (2013-2018), helping to shape the USDA’s grant program for the 2015-2020 period. Fields of contribution include framing forestry and sustainability issues.
• USDA NIFA Forest Resources Research Grant Panel Reviewer August 2013
• USDA NIFA, AFRI Bioenergy CAP Reverse Site Visit Panel: site selection of one out two proposals for  M$10 grant, March, 2012.
• USDA NIFA, AFRI Bioenergy CAP Phase I Panel: reviewing 8 proposals for M$10, February, 2012.

Editorial Board

• European Journal of Forest Engineering
• Croatian Journal of Forest Engineering

Fellowships and Awards

• Teaching Academy Fellowship Program, University of Georgia 2016 - 2017
• Visiting faculty to Bursa Technical University, Turkey. Summer 2016
• Global Education Advisor: IUFRO’s (Global Network for Forest Science)’s Global Outlook on Forestry Education
• Forest Products Society, outstanding leadership award. 2014 Quebec, Canada
• USDA Cochran Fellowship Program grant, Training program for Vietnamese fellows in biotechnology, June 2013. USDA
• Evaluating Forest Harvesting Logistics Factors to Develop Efficient Supply Logistics in Tennessee. Submitted to The National Institute of Food and Agriculture (NIFA). United States Department of Agriculture (USDA)