

Jane Rossing Frankenberger

PhD 1996, Cornell University, Agricultural and Biological Engineering.

MS 1984, University of Minnesota, Agricultural Engineering.

BS 1979, St. Olaf College, Physics, magna cum laude

*Academic Experience: Purdue University*

- Professor, Agricultural and Biological Engineering, 2007 – present. Full time.
- Associate Professor, Agricultural and Biological Engineering, 2001-2007. Full time.
- Assistant Professor, Agricultural and Biological Engineering. 1996-2001.

*Other:*

- Visiting scientist (Sabbatical), USDA Cooperative State Research, Education, and Extension Service (USDA-CSREES), and US Environmental Protection Agency, Office of Wetlands, Oceans, and Watersheds (EPA-OWOW).
- Agricultural Development Specialist in Senegal, Lutheran Church ELCA. 1984-1990.
- Physics and Mathematics Teacher, Democratic Republic of Congo, MCC. 1979-1982.

*Professional Organizations:* American Society of Agricultural and Biological Engineers; Soil Science Society of America, American Geophysical Union, Soil and Water Conservation Society

*Honors and Awards (Selected):*

- Blue Ribbon Awards (8), American Society of Agricultural and Biological Engineers Educational Aids Competition
- Outstanding Extension Specialist awards (4) from the Purdue University Cooperative Extension Specialists Association. Early Career Award, 1999; Mid-Career Award, 2013, Team Award, 2014 and 2017.
- Excellence in Distance Education Award, Purdue University, 2010

*Service Activities (past five years):*

- American Society of Agricultural and Biological Engineers (ASABE). Member, Board of Trustees, ASABE Foundation KEYS committee, Vice-Chair, NRES-23 Drainage Committee, Member, NRES-21 Hydrology Committee and ED208 Extension.
- Agricultural Drainage Management Systems Task Force. Dr. Frankenberger serves as USDA-NIFA Representative on the Leadership Team, 2003-present.
- North Central Region Water Network. a 12-state collaboration designed to enhance connectivity and develop and carry out integrated outreach and education efforts with measurable environmental and social impacts. Leadership Team, 2013-present.
- SERA-46, Southern Region Extension and Research Activity. Framework for Nutrient Reduction Strategy Collaboration: The Role for Land Grant Universities.
- 10th International Drainage Symposium. Dr. Frankenberger was Co-Chair for this event in Minneapolis in September 2016, considered the most successful drainage symposium to date as it brought together 250 researchers and practitioners from 13 countries.

*Selected Publications (past five years):*

1. Saadat, S., Bowling, L., Frankenberger, J. and Kladvko, E., 2018. Estimating drain flow from measured water table depth in layered soils under free and controlled drainage. *Journal of Hydrology*, 556, pp.339-348.
2. Gunn, K.M., Baule, W.J., Frankenberger, J.R., Gamble, D.L., Allred, B.J., Andresen, J.A. and Brown, L.C., 2018. Modeled climate change impacts on subirrigated maize relative yield in northwest Ohio. *Agricultural Water Management*, 206, pp.56-66.
3. Saadat, S., Bowling, L., Frankenberger, J. and Kladvko, E., 2018. Nitrate and phosphorus transport through subsurface drains under free and controlled drainage. *Water Research (online)*.
4. Shao, G., Shao, G., Gallion, J., Saunders, M.R., Frankenberger, J.R. and Fei, S., 2018. Improving Lidar-based aboveground biomass estimation of temperate hardwood forests with varying site productivity. *Remote Sensing of Environment*, 204, pp.872-882.
5. Koundinya, V., A. Baird, J. Klink, L. Wolfson, J. Frankenberger, J. Bonnell, and R. Power, 2018. Core Competencies for Successful Watershed Management Practitioners. *Journal of Extension* 56:1. Online at <https://www.joe.org/joe/2018february/rb1.php>.
6. Saadat, S., Bowling, L., Frankenberger, J. and Brooks, K., 2017. Effects of Controlled Drainage on Water Table Recession Rate. *Transactions of the ASABE*, 60(3), p.813. doi: 10.13031/trans.11922.
7. Hodaj, A., Bowling, L.C., Frankenberger, J.R. and Chaubey, I., 2017. Impact of a two-stage ditch on channel water quality. *Agricultural Water Management*, 192, pp.126-137. doi:10.1016/j.agwat.2017.07.006
8. Baule, W., Allred, B., Frankenberger, J., Gamble, D., Andresen, J., Gunn, K.M. and Brown, L., 2017. Northwest Ohio crop yield benefits of water capture and subirrigation based on future climate change projections. *Agricultural Water Management*, 189, pp.87-97.
9. Ross, J.A., Herbert, M.E., Sowa, S.P., Frankenberger, J.R., King, K.W., Christopher, S.F., Tank, J.L., Arnold, J.G., White, M.J. and Yen, H., 2016. A synthesis and comparative evaluation of factors influencing the effectiveness of drainage water management. *Agricultural Water Management*, 178, pp.366-376. doi:10.1016/j.agwat.2016.10.011
10. Her, Y., Chaubey, I., Frankenberger, J. and Smith, D., 2016. Effect of conservation practices implemented by USDA programs at field and watershed scales. *Journal of Soil and Water Conservation*, 71(3): 249-266. doi: 10.2489/jswc.71.3.249.
11. Her, Y., Chaubey, I., Frankenberger, J. and Jeong, J., 2016. Implications of spatial and temporal variations in effects of conservation practices on water management strategies. *Agricultural Water Management*. doi:10.1016/j.agwat.2016.07.004
12. Muenich, R L, Peel, S, Bowling, L C, Haas, M H, Turco, R F, Frankenberger, J R, and Chaubey, I, 2016. The Wabash Sampling Blitz: A Study on the Effectiveness of Citizen Science. *Citizen Science: Theory and Practice*, 1(1): 3, pp. 1–15: <http://dx.doi.org/10.5334/cstp.1>
13. Park, Y.S., B.A. Engel, J. Frankenberger, and H. Hwang, 2015. A Web-Based Tool to Estimate Pollutant Loading Using LOADEST. *Water* 7 (9), 4858-4868. doi:10.3390/w7094858.
14. Kalcic, M., J. Frankenberger, and I. Chaubey, 2015. Spatial optimization of six conservation practices using SWAT in tile-drained agricultural watersheds. *Journal of the American Water Resources Association* 51(4): 966-972. doi: 10.1111/1752-1688.12338.
15. Zeckoski, R.W., M. Smolen, D. Moriasi, J. Frankenberger, and G. Feyereisen, 2015. Hydrologic and water quality terminology as applied to modeling. *Transactions of the ASABE* 58(6): 1619-1635. doi: 10.13031/trans.58.10713.
16. Boles, C.M., J.R Frankenberger, and D.N. Moriasi, 2015. Tile Drainage Simulation in SWAT2012: Parameterization and Evaluation in an Indiana Watershed. *Transactions of the ASABE*, 58(5), pp.1201-1213. doi: 10.13031/trans.58.10589.