

## Jason P. de Koff

304 Jackson Court  
Old Hickory, TN 37138

Phone: 765.414.5974  
jpdekoff@gmail.com

---

### EDUCATION

Ph.D. in Agronomy, Purdue University, 2008

Dissertation: Sustainable waste management: the beneficial reuse of industrial, municipal, and agricultural waste products as soil amendments

Research Advisor: Dr. Brad Lee

M.S. in Soil and Water Sciences, University of California, Riverside, 2004

Thesis: Pre- and post-fire erosion of soil nutrients within a chaparral watershed

Research Advisor: Dr. Robert Graham

B.S. in Chemistry, Ithaca College, 2000

Minor in Environmental Studies

### PROFESSIONAL EXPERIENCE

2022 – Present

Professor – Agronomy and Soil Science  
ANR Extension Program Leader  
TSU Southern SARE Coordinator  
Tennessee State University, Nashville, TN

2016 – 2022

Associate Professor – Agronomy and Soil Science  
Assistant ANR Extension Program Leader  
Tennessee State University, Nashville, TN

2010 – 2016

Assistant Professor – Agronomy and Soil Science  
Tennessee State University, Nashville, TN

2008 – 2010

Postdoctoral Research Associate  
USDA-ARS, Fayetteville, AR

2004 – 2008

Graduate Research Assistant  
Purdue University, West Lafayette, IN

2001 – 2004

Graduate Research Assistant  
University of California-Riverside, Riverside, CA

## PROFESSIONAL MEMBERSHIPS

Tennessee Association of Agricultural Agents and Specialists, 7 years  
American Society of Agronomy (ASA), 15 years  
Soil Science Society of America (SSSA), 15 years  
Gamma Sigma Delta, 16 years

## PROFESSIONAL DEVELOPMENT

FFAR Soil Health Advisory Council, 2022-2024  
LEAD21 leadership training, 2019-2020  
Common Measures training, 2019  
Review panelist for USDA-NRCS, USDA-NIFA, NSF, 2013, 2017, 2018  
Vice-chair for American Society of Agronomy community, 2013-2014, 2015-2016  
Chair for American Society of Agronomy community, 2014-2015, 2016-2018  
eLearn course development certification, 2012  
Faculty Cultural Roadmap training, 2012  
Website Development Workshop, 2012  
Co-Leader within eXtension Farm Energy CoP, 2012  
Reviewer for Transactions of the ASABE, SSSAJ, JEQ, AAAE  
Golden Opportunity Scholars Mentor, 2011  
NIFA grantsmanship workshop, 2011  
Sustainable feedstocks for advanced biofuels workshop, 2010  
Preparing future faculty training course, 2007

## GRANTS RECEIVED

Co-PI, USDA-NRCS Climate Smart Commodities, Climate Smart Grasslands – the Root of Agricultural Carbon Markets. \$33,544,848 Project duration 2023 – 2028.

Co-PI, USDA-NIFA Small and Mid-Sized Farms of the AERC Program, Managing pasture rotation in a small flock free range egg-type breed using drone technology. \$300,000 Project duration 2023 – 2025.

Co-PI, Sun Grant Program, Understanding the potential of biomass sorghum and switchgrass, their variability, and effect on pulp quality to obtain high-end/sustainable fibers for the hygiene tissue industry. \$16,000 Project duration 2021 – 2023.

Co-PI, USDA-NIFA Centers of Excellence at 1890 Institutions, Center for Innovation and Sustainability for Small Farms, Ranches, and Forest Lands (CISFRL) Thrust Area 1: Farm Commodity, Process & Systems. Award number 2020-38427-31515, \$55,000, Project duration 2020 – 2021.

Co-PI, NSF HBCU-UP Excellence in Research, Excellence in Research: Mechanistic Prediction of Soil Microbial Response to Temperature Change. Award number 1900885, \$999,429, Project duration 2019-2022.

Co-PI, USDA-NIFA Capacity Building Grant, Improving Production and Profitability of Nursery Production Using an Unmanned Aircraft System. Award number 2019-38821-29062, \$599,925, Project duration 2019-2021.

PI, Southern SARE Professional Development Program, Soil SMaRTS (Specific Management and Resources Training for Sustainability) for soil health in Tennessee. Award number ES18-141, \$77,414, Project duration 2018-2020.

PI, USDA-NIFA Capacity Building Grant, Building Extension Capacity by Developing Relevant Opportunities for Novel Experiences (DRONES) in Agriculture. Award number 2018-38821-27763, \$249,147, Project duration 2018-2021.

Co-PI, NSF GEOPATHS, TSU-Vanderbilt Partnership – A Pathway to Broaden Participation of Underrepresented Groups in Graduate School and the Geoscience Workforce. Award number 1801389, \$350,000, Project duration 2018-2021.

PI, Southern SARE Professional Development Program, Sustainable ACEs (Agriculture, Curricula, Energy) for Tennessee. Award number ES14-121, \$77,757, Project duration 2015-2017.

PI, USDA-NIFA Capacity Building Grant, Building Extension Capacity Using a Mobile Biodiesel Production Platform. Award number 2012-38821-20283, \$249,744, Project duration 2012-2015.

Co-PI, USDA-NIFA Capacity Building Grant, Sustainable Utilization of Winter Oilseed Crops in Small-Farm Production Systems to Meet the Needs of Biodiesel. Award number 2014-38821-22428, \$296,441, Project duration 2014-2017.

Co-PI, USDA-RD Renewable Energy Development Assistance Program, Tennessee Poultry Grower Energy Efficiency. Award number 838948114, \$99,800, Project duration 2015-2017.

Co-PI, USDA-NIFA Capacity Building Grant, Identification and modulation of functional protein association networks for drought tolerance in switchgrass. Award number 2012-38821-19989, \$499,995, Project duration 2012-2015.

Co-PI, USDA-NIFA Capacity Building Grant, Biofuel Education and Training Program with Infusion of Foundation Concepts and Outreach. Award number 2013-38820-21450, \$150,000, Project duration 2013-2015.

Co-PI, USDA 2501 Outreach Assistance to Socially Disadvantaged Farmers and Ranchers (OASDFR) Competitive Grants Program, Award number 59-2501-11-022, \$400,000, Project duration 2011-2013.

### HONORS AND AWARDS

National Association of County Agricultural Agents (NACAA) Search for Excellence, Crop Production, National Finalist, 2022

Tennessee Association of Agricultural Agents and Specialists (TAAA&S) Communication award, Fact sheet (1<sup>st</sup> place), 2022

TAAA&S Communication award, Computer generated presentation (1<sup>st</sup> place), 2022

TAAA&S Communication award, Publication (2<sup>nd</sup> place), 2022

TAAA&S Communication award, Website (2<sup>nd</sup> place), 2022

NACAA Search for Excellence, Crop Production, National Finalist, 2021

NACAA Distinguished Service Award, 2021

TAAA&S Fletcher Sweet Communicator of the Year, 2021

TAAA&S Communication award, Fact sheet (1<sup>st</sup> place), 2021

TAAA&S Communication award, Website (1<sup>st</sup> place), 2021

TAAA&S Communication award, Feature Story (2<sup>nd</sup> place), 2021

TAAA&S Communication award, Educational Video Recording (2<sup>nd</sup> place), 2021

American Society of Agronomy Educational Materials Award, 2020

NACAA Communication award, Fact sheet (National Finalist), 2020

TAAA&S Communication award, Fact sheet (1<sup>st</sup> place), 2020

TAAA&S Communication award, Website (2<sup>nd</sup> place), 2020

Farm Journal Story Lead Contest Winner with eXtension.org

(<https://www.porkbusiness.com/news/hog-production/qa-maximize-drone-roi-your-farm>), 2020

TAAA&S Communication award, Computer generated presentation (1<sup>st</sup> place), 2019

TAAA&S Communication award, Feature story (1<sup>st</sup> place), 2019

NACAA Communication award, Learning module (Southern Regional Finalist), 2019

NIFA/APLU 1890s Region Excellence in Extension Award, 2018

American Society of Agronomy Educational Materials Award, 2018

Association of Extension Administrators Excellence in Extension Award, 2018

TSU Outstanding Teaching Award, 2018

TAAA&S Communication award, Fact sheet (1<sup>st</sup> place), 2018

TAAA&S Communication award, Website (1<sup>st</sup> place), 2018

TAAA&S Communication award, Program promotional piece (2<sup>nd</sup> place), 2018

TAAA&S Communication award, Video recording (2<sup>nd</sup> place), 2018

TAAA&S Communication award, Feature story (2<sup>nd</sup> place), 2018

TAAA&S Communication award, Published photo (3<sup>rd</sup> place), 2018

TAAA&S Communication award, Computer generated presentation (3<sup>rd</sup> place), 2018

American Society of Agronomy Educational Materials Award, 2017

TAAA&S Hicks Award of Excellence, 2017

NACAA Search for Excellence, Crop Production, National Finalist, 2017, 2016

TAAA&S Fletcher Sweet Communicator of the Year, 2017

TAAA&S Communication award, Learning module (1<sup>st</sup> place), 2017

TAAA&S Communication award, Fact sheet (1<sup>st</sup> place), 2017  
TAAA&S Communication award, Website (1<sup>st</sup> place), 2017  
TAAA&S Communication award, Program Promotional Piece (1<sup>st</sup> place), 2017  
TAAA&S Communication award, Video (2<sup>nd</sup> place), 2017  
TAAA&S Communication award, Feature story (3<sup>rd</sup> place), 2017  
One of 20 agronomists selected to be featured in “Agronomy – Grow With it”, an agronomy textbook for students, published by the American Society of Agronomy, 2016  
NACAA Achievement Award, 2016  
TAAA&S Early Career Award, 2016  
NACAA Communication award, Learning module (1<sup>st</sup> place, Southeast Region), 2016  
TAAA&S Communication award, Fact sheet (1<sup>st</sup> place), 2016  
TAAA&S Communication award, Website (2<sup>nd</sup> place), 2016  
TAAA&S Communication award, Video (3<sup>rd</sup> place), 2016  
American Society of Agronomy Early Career Award, 2015  
American Society of Agronomy Educational Materials Award, 2015  
TSU Outstanding Extension Specialist Award, 2015  
NACAA Search for Excellence, Crop Production State Winner, 2015  
TAAA&S Communication award, Website (2<sup>nd</sup> place), 2015  
TAAA&S Communication award, Fact sheet (3<sup>rd</sup> place), 2015  
TSU College of Agriculture Growing Service Award, 2012  
Purdue University Agronomy Extension Assistantship, 2007  
Gamma Sigma Delta Agricultural Honor Society, Purdue University, 2006  
George D. Scarseth Scholarship, 2005

## RESEARCH PUBLICATIONS AND PRESENTATIONS

### *Research/Refereed Publications:*

- Saini, P., J.P. de Koff, S. Rakshit. 2023. In-situ ATR-FTIR spectroscopy for evidencing the adsorption mechanism of ammonium on a pinewood-derived biochar. *Agricultural and Environmental Letters* 8(1) <https://doi.org/10.1002/ael2.20097>
- McGeary, K.D., J.P. de Koff, B. Pokharel, R. Link, P. Saini, and T. Gill. 2022. Effect of winter canola cultivar on seed yield, oil, and protein content. *Agrosystems, Geosciences, & Environment* <https://doi.org/10.1002/agg2.20254>
- Saini, P., J.P. de Koff, R. Link, and C. Robbins. 2021. Soil health beneath amended switchgrass: Effects of biochar and nitrogen on active carbon and wet aggregate stability. *Sustainability* 13(13):7176 <https://doi.org/10.3390/su13137176>
- de Koff, J.P. 2021. Utilizing teaching technologies for higher education in a post-COVID-19 environment. *Natural Sciences Education* 50(1) <https://doi.org/10.1002/nse2.20032>
- de Koff, J.P., and T. Broyles. 2019. Extension agents' perceptions of climate change and training needs. *Natural Sciences Education* 48:1-9. doi:10.4195/nse2019.01.0001.

- Tetteh, E., J.P. de Koff, B. Pokharel, R. Link, and C. Robbins. 2019. Effect of winter canola cultivar on seed yield, oil, and protein content. *Agron. J.* 111:1-10. doi:10.2134/agronj2018.08.0494
- Illukpitiya, P., and J.P. de Koff. 2019. An economic assessment of nutrient removal from switchgrass production. *Research in Applied Economics* 11(2):26-38. doi: 10.5296/rae.v11i2.14998
- Hui, D., C.-L. Yu, Q. Deng, P. Saini, K. Collins, and J. de Koff. 2018. Weak effects of biochar and nitrogen fertilization on switchgrass photosynthesis, biomass, and soil respiration. *Agriculture* 8:1-12. <http://dx.doi.org/10.3390/agriculture8090143>
- Li, J. S. Jian, J.P. de Koff, C.S. Lane, G. Wang, M.A. Mayes, and D. Hui. 2018. Differential effects of warming and nitrogen fertilization on soil respiration and microbial dynamics in switchgrass croplands. *GCB Bioenergy* 1-12. doi: 10.1111/gcbb.12515
- de Koff, J.P. 2017. Drones in Extension programming: Implementation of adult and youth activities. *Journal of Extension* 55(6):6FEA6. Available at: [https://www.joe.org/joe/2017december/pdf/JOE\\_v55\\_6a6.pdf](https://www.joe.org/joe/2017december/pdf/JOE_v55_6a6.pdf)
- de Koff, J.P., J.C. Ricketts, C. Robbins, P. Illukpitiya, and A. Wade. 2017. Meeting stakeholder energy technology education needs using a mobile demonstration. *Journal of Extension* 55(6):6FEA8. Available at: [https://www.joe.org/joe/2017december/pdf/JOE\\_v55\\_6a8.pdf](https://www.joe.org/joe/2017december/pdf/JOE_v55_6a8.pdf)
- Saini, P., J.P. de Koff, A. Allison, and C. Hamilton. 2017. Changes in lignocellulosic polymers, carbon and energy in switchgrass for bioenergy production. *Agronomy Journal* 109:1-9. doi:10.2134/agronj2017.02.0063
- Aziz, A., F. Tegegne, J.P. de Koff, and R. Wiemers. 2017. Biofuel training workshops for diverse stakeholders ranging from pre-college students to educators. *Natural Sciences Education* 46. doi:10.4195/nse2016.11.0033
- Akinya, A., P. Illukpitiya, and J.P. de Koff. 2016. Economic analysis of small scale on-farm production of biodiesel and vegetable oil for industrial use from winter oilseed crops. *Journal of Global Agriculture and Ecology* 5(1):19-29.
- de Koff, J.P., A. Allison. 2015. Changes in nutrient characteristics of switchgrass for bioenergy. *Agronomy Journal* 107:2401-2409. doi:10.2134/agronj15.0183
- de Koff, J.P., P.A. Moore, Jr., R.D. Williams, R. Young, and P.J.A. Kleinman. 2013. Utilizing water treatment residuals to reduce phosphorus runoff from biosolids. *J. Environ. Sci. and Eng. A* 2:405-417.

- de Koff, J.P., P.A. Moore, Jr., S.J. Formica, M. Van Eps, and P.B. DeLaune. 2011. Effects of pasture renovation on hydrology, nutrient runoff, and forage yield. *J. Environ. Qual.* 40:320-328.
- de Koff, J.P., B.D. Lee, R.S. Dungan, and J.B. Santini. 2010. Effect of compost-, sand-, or gypsum-amended waste foundry green sands on turfgrass yield and nutrient content. *J. Environ. Qual.* 39:375-383.
- de Koff, J.P., B.D. Lee, and R.S. Dungan. 2008. Amelioration of physical strength in waste foundry green sands for reuse as a soil amendment. *J. Environ. Qual.* 37:2332-2338.
- de Koff, J.P., M.A. Anderson, and C. Amrhein. 2008. Geochemistry of iron in the Salton Sea, California. *Hydrobiologia* 604:111-121.
- Dungan, R.S., B.D. Lee, P. Shouse, and J.P. de Koff. 2007. Saturated hydraulic conductivity of soils blended with waste foundry sands. *Soil Science* 172(10):751-758.
- de Koff, J.P., R.C. Graham, K.R. Hubbert, and P.M. Wohlgemuth. 2006. Pre- and post-fire erosion of soil nutrients within a chaparral watershed. *Soil Science* 171(12):915-928.
- Proceedings:*
- de Koff, J.P., and N. Kraft. 2018. Ag mashup: Blending agriculture and communications classrooms to increase agricultural communication and literacy. *NACTA Journal* 62(S1): 110.
- Presentations:*
- de Koff, J.P. 2022. Producer options and perceptions for drone use on their farms. **Invited speaker.** Symposium--Translating Data from Drones and Digital Platforms to Actionable Crop Management Decisions. ASA-CSSA-SSSA Annual Meeting, Baltimore, MD, Nov. 6<sup>th</sup> – 9<sup>th</sup>.
- Bhattarai, M., F. Yuldashev, and J.P. de Koff. 2022. Assessing the effect of winter canola varieties on emergence, canopy cover, and winter mortality in Tennessee. Association of Research Directors Symposium, Atlanta, GA, Apr. 2<sup>nd</sup> – 5<sup>th</sup>.
- Bhattarai, M., F. Yuldashev, and J.P. de Koff. 2022. Pollinators and monitoring options for winter canola in Tennessee. TSU University-Wide Research Symposium, Nashville, TN, Mar. 28<sup>th</sup> – Apr. 1<sup>st</sup>.
- de Koff, J.P. and T. Broyles. 2021. Farmers and drones: A “crash” course on their applications in agriculture. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT, Nov. 7th-10th.

- Gill, T., J.P. de Koff. 2021. Effect of nitrogen fertilizer on yield, oil and protein content and pollinators of winter canola. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT, Nov. 7<sup>th</sup>-10<sup>th</sup>. **2<sup>nd</sup> place oral presentation award**
- Bhattarai, M., J.P. de Koff. 2021. Assessing the effect of winter canola (*Brassica napus* L.) varieties on seed yield, oil and protein content in Tennessee. Tennessee Academy of Science Annual Meeting, Cookeville, TN, Nov. 6<sup>th</sup>.
- Gill, T., and J.P. de Koff. 2021. Effect of temperature on germination rate in winter canola. TSU University-Wide Research Symposium, Nashville, TN, Mar. 22-26<sup>th</sup>. **1<sup>st</sup> place oral presentation award**
- Bhattarai, M., and J.P. de Koff. 2021. Assessing the effect of winter canola varieties on winter canopy cover and winter mortality. TSU University-Wide Research Symposium, Nashville, TN, Mar. 22-26<sup>th</sup>.
- Gill, T., K.D. McGeary, and J.P. de Koff. 2020. Characterization of volatile compounds in canola flowers for pollinator attraction. Tennessee Academy of Science Annual Meeting, Virtual, Nov. 21<sup>st</sup>. **1<sup>st</sup> place oral presentation award**
- Bhattarai, M., and J.P. de Koff. 2020. Assessing the effect of winter canola varieties on canopy cover and germination rate. Tennessee Academy of Science Annual Meeting, Virtual, Nov. 21<sup>st</sup>.
- de Koff, J.P., and T. Broyles. 2020. Drone workshops in Tennessee increase farmers' knowledge and interest. ASA-CSSA-SSSA 2020 International Annual Meetings, Virtual, Nov. 9 – 13.
- Claiborne, L.L., J.L. Oster, D. Young, T.D. Byl, C.P. Vanags, N.P. Kelley, S.L. Goodbred and J.P. de Koff. 2020. Earth Horizons: A TSU-VU partnership to broaden participation in geosciences. The Geological Society of America Joint 69<sup>th</sup> Annual Southeastern/55<sup>th</sup> Annual Northeastern Section Meeting. Reston, VA, Mar. 20 – 22, 2020.
- de Koff, J.P. 2019. Drone certification training program for extension agents. ASA, CSSA, and SSSA 2019 International Annual Meetings, San Antonio, TX, Nov. 10 – 13, 2019.
- Saini, P., and J.P. de Koff. 2019. Effect of biochar and nitrogen fertilizer on soil health characteristics in a switchgrass production system. TSU University-Wide Research Symposium, Nashville, TN, Apr. 1-4<sup>th</sup>. **1<sup>st</sup> place oral presentation award**



- McGeary, K., J.P. de Koff, R. Link. 2019. The effects of nitrogen fertilizer rates and winter canola cultivars on winter mortality and canopy coverage for two growing seasons in Middle TN. TSU University-Wide Research Symposium, Nashville, TN, Apr. 1-4<sup>th</sup>. **2<sup>nd</sup> place oral presentation award**
- Allen, A.L., F.M. Hashem, A.S. Collick, L.E. Marsh, A.L. Kennedy, M. Guo, D. Davis, P. Millner, H. Casey, G. Daye, S. Dennis, J.P. de Koff, L. Kibet, and A. Bhowmik. 2019. Expanding soil health focus at 1890 & 1994 Universities: Research, curriculum reconstruction, and student-faculty-farmer training. SSSA Annual Meeting, San Diego, CA, Jan. 6-9<sup>th</sup>.
- Li, J., S. Jian, J. de Koff, C. Lane, G. Wang, M.A. Mayes, and D. Hui. 2018. Differential effects of warming and nitrogen fertilization on soil respiration and microbial dynamics in switchgrass croplands. American Geophysical Union, Washington, D.C., Dec. 10-14<sup>th</sup>.
- McGeary, K.D., J.P. de Koff, P. Saini, and R. Link. 2018. Effects of nitrogen and cultivar type on germination and soil coverage in winter canola (*Brassica napus* L.) in Tennessee. Tennessee Academy of Science Annual Meeting, Clarksville, TN, Nov. 17<sup>th</sup>. **1<sup>st</sup> place oral presentation award**
- Claiborne, L.L., J.L. Oster, D. Young, T.D. Byl, C.P. Vanags, N.P. Kelley, J.P. de Koff, and S.L. Goodbred. 2018. Earth Horizons: A TSU-Vanderbilt partnership building a pathway to broaden participation of underrepresented groups in graduate school and the geoscience workforce. The Geological Society of America Annual Meeting, Indianapolis, IN, Nov. 4-7<sup>th</sup>.
- de Koff, J.P., and T. Broyles. 2018. Climate change: Extension agents' perspectives and needs in Tennessee. American Society of Agronomy-Crop Science Society of America Annual Meeting, Baltimore, MD, Nov. 4-7<sup>th</sup>.
- Saini, P., J.P. de Koff, R. Link, K.D. McGeary. 2018. Analysis of impacts of biochar and nitrogen fertilizer on soil health characteristics in switchgrass production for bioenergy. American Society of Agronomy-Crop Science Society of America Annual Meeting, Baltimore, MD, Nov. 4-7<sup>th</sup>. **2<sup>nd</sup> place poster presentation award**
- Saini, P., S. Rakshit, J.P. de Koff, and J. Mierzwa. 2018. Estimating N availability of a pine wood biochar used in growing switchgrass. American Society of Agronomy-Crop Science Society of America Annual Meeting, Baltimore, MD, Nov. 4-7<sup>th</sup>.
- McGeary, K.D., J.P. de Koff, P. Saini, and R. Link. 2018. The effects of nitrogen and cultivar type on arthropod, pollinator, and insect diversity in winter canola (*Brassica napus* L.) in Tennessee. American Society of Agronomy-Crop Science Society of America Annual Meeting, Baltimore, MD, Nov. 4-7<sup>th</sup>.

- McGeary, K.D., J.P. de Koff, P. Saini, and R. Link. 2018. The effects of nitrogen and cultivar type on winter mortality, yield, and quality in winter canola (*Brassica napus* L.) grown for bioenergy. American Society of Agronomy-Crop Science Society of America Annual Meeting, Baltimore, MD, Nov. 4-7<sup>th</sup>.
- McGeary, K.D., and J.P. de Koff. 2018. The effects of nitrogen fertilizer rates on winter performance of three different winter canola cultivars. TSU University-Wide Research Symposium, Nashville, TN, Apr. 9-13<sup>th</sup>. **1<sup>st</sup> place oral presentation award**
- Saini, P., and J.P. de Koff. 2018. Analyzing biochar properties for potential effects in switchgrass production. TSU University-Wide Research Symposium, Nashville, TN, Apr. 9-13<sup>th</sup>. **2<sup>nd</sup> place oral presentation award**
- Illukpitiya, P., and J.P. de Koff. 2018. Sustainable utilization of winter oilseed crops for bio-based industry: Success and failures. 2018 Engineers for a Sustainable World Annual Conference, Georgia Institute of Technology, Atlanta, GA, Apr. 5-8.
- McGeary, K.D., and J.P. de Koff. 2017. Effects of nitrogen fertilizer rates and cultivar on yield and seed characteristics of winter canola in Nashville, Tennessee. Tennessee Academy of Science Annual Meeting, Martin, TN, Nov. 17. **1<sup>st</sup> place poster presentation award**
- Saini, P., and J.P. de Koff. 2017. Bioenergy crop production: Investigating various plant characteristics of winter canola varieties in response to different rates of nitrogen fertilizer. Tennessee Academy of Science Annual Meeting, Martin, TN, Nov. 17.
- de Koff, J.P., and P. Saini. 2017. Biochar and nitrogen effects on yield, plant nutrients and soil health characteristics in switchgrass production. ASA, CSSA, and SSSA 2017 International Annual Meetings, Tampa, FL, Oct. 22 – 25, 2017.
- Collins, K Q. Deng, C.-L. Yu, J.P. de Koff, D. Hui. 2017. Effects of Biochar and Nitrogen Application on Switchgrass Photosynthesis and Soil CO<sub>2</sub> Emission. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017.
- Jian, S., J.Li, and J.P. de Koff. 2017. Soil respiration, microbial biomass and exoenzyme activity in switchgrass stands under nitrogen fertilization management. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017.
- Kosoko, R., and J.P. de Koff. 2017. Variability of free fatty acid content within winter canola varieties. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017.

- Saini, P., and J.P. de Koff. 2017. Effect of biochar and nitrogen fertilizer rate on switchgrass yield, nitrogen and carbon in biomass harvested for bioenergy production. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017.
- Tetteh, E., and J.P. de Koff. 2017. Comparison of Near Infrared Spectroscopy and oilpress extraction for oil content determination in winter canola varieties. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017. **3<sup>rd</sup> place oral presentation award**
- Chawla, S., J.P. de Koff, and P. Illukpitiya. 2017. Cold hardiness and soil coverage of industrial oilseed crops for bioenergy production. TSU University-wide Research Symposium, Nashville, TN, Apr. 17 – Apr. 21, 2017.
- de Koff, J.P. 2017. How to talk to producers about bioenergy crops under low oil pricing conditions. National Extension Energy Summit, Knoxville, TN, Apr. 3 – 6, 2017.
- Jian, S., S. Celada, J.P. de Koff, C. Guo, M.A. Mayes, G. Wang, and J. Li. 2016. Soil respiration, microbial biomass and exoenzyme activity in switchgrass stands under nitrogen fertilization management and climate warming. American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 12-16, 2016.
- Tetteh, E., and J.P. de Koff. 2016. Determination of the best winter canola variety for Tennessee. Tennessee Academy of Science Annual Meeting, Clarksville, TN, Nov. 19, 2016.
- de Koff, J.P., E. Tetteh, and S. Chawla. 2016. Winter canola for on-farm bioenergy production: effects of planting date and variety on oil yield and meal quality in Tennessee. ASA, CSSA, and SSSA 2016 International Annual Meetings, Phoenix, AZ, Nov. 6 – 9, 2016.
- de Koff, J. 2016. Using #agchat Twitter discussions in teaching to increase interactions between students and farmers. ASA, CSSA, and SSSA 2016 International Annual Meetings, Phoenix, AZ, Nov. 6 – 9, 2016.
- Chawla, S., J.P. de Koff and P. Illukpitiya. 2016. Evaluation of industrial oilseed crops for biodiesel production in Tennessee. TSU University-wide Research Symposium, Nashville, TN, Apr. 4 – Apr. 8, 2016.
- Dingle, A., J.P. de Koff. 2016. Determination of variability in waste vegetable oil resources for biodiesel production. TSU University-wide Research Symposium, Nashville, TN, Apr. 4 – Apr. 8, 2016. **2<sup>nd</sup> place undergraduate science presentation award**

- Tetteh, E., and J.P. de Koff. 2016. Evaluation of winter canola for biodiesel production in Tennessee. TSU University-wide Research Symposium, Nashville, TN, Apr. 4 – Apr. 8, 2016.
- de Koff, J.P. 2015. Effect of winter canola planting date and variety on yield and meal quality for biodiesel production. ASA, CSSA, and SSSA 2015 International Annual Meetings, Minneapolis, MN, Nov. 15 – 18, 2015.
- de Koff, J.P., C. Robbins, J.C. Ricketts, P. Illukpitiya, and A. Wade. 2015. Using a mobile demonstration to talk to farmers about on-farm biodiesel production. National Extension Energy Summit, Seattle, WA, Apr. 7-10, 2015.
- Saini, P., and J.P. de Koff. 2015. Effect of drought on switchgrass quality for bioenergy production. TSU University-wide Research Symposium, Nashville, TN, Mar. 30 – Apr. 3, 2015.
- de Koff, J.P. 2014. American Society of Agronomy members' interest, usage, and obstacles in using social media. ASA, CSSA, and SSSA 2014 International Annual Meetings, Long Beach, CA, Nov. 2 – 5, 2014.
- Saini, P., and J.P. de Koff. 2014. Effects of harvest timing on the quality of switchgrass for biofuel: changes in lignocellulose and potential energy production. ASA, CSSA, and SSSA 2014 International Annual Meetings, Long Beach, CA, Nov. 2 – 5, 2014.
- de Koff, J.P. 2014. Perceptions of student clicker use by graduate students in agricultural sciences at Tennessee State University. TSU University-wide Research Symposium, Nashville, TN, Mar. 31 – Apr. 4, 2014.
- Illukpitiya, P., and J.P. de Koff. 2014. Economic feasibility of on-farm biodiesel production from winter oilseed crops. TSU University-wide Research Symposium, Nashville, TN, Mar. 31 – Apr. 4, 2014.
- Link, R., J.P. de Koff, and S. Haile. 2014. Creating a tree identification guide for Centennial Park in Nashville, Tennessee. TSU University-wide Research Symposium, Nashville, TN, Mar. 31 – Apr. 4, 2014.
- Saini, P., and J.P. de Koff. 2014. Harvest timing effects on carbon constituents in switchgrass grown for bioenergy. TSU University-wide Research Symposium, Nashville, TN, Mar. 31 – Apr. 4, 2014. **1<sup>st</sup> place graduate student presentation division award**
- de Koff, J.P., and A. Allison. 2013. Harvest timing and switchgrass quality in Tennessee. ASA, CSSA, and SSSA 2013 International Annual Meetings, Tampa, FL, Nov. 3-6, 2013.

- Allison, A., J.P. de Koff. 2013. Switchgrass for Bioenergy: optimal harvest timing for enhanced feedstock quality. Tennessee State University 34<sup>th</sup> Annual University-Wide Research Symposium, Nashville, TN, Apr. 1-5, 2013. **2<sup>nd</sup> place graduate student presentation division award**
- Dungan, R.S., J.P. de Koff, B.D. Lee. 2012. Assessment of physical strength in foundry green sands and impact on turfgrass yields in manufactured soil blends. **Invited paper**, 5<sup>th</sup> Foundry Congress of Latin America, Buenos Aires, Argentina, Nov. 15-17, 2012.
- de Koff, J.P., and A. Allison. 2012. Changes in switchgrass nutrients and quality characteristics during growth and senescence. **Invited speaker**, University of Tennessee seminar, Knoxville, TN, Nov. 5, 2012.
- de Koff, J.P., and A. Allison. 2012. Effect of harvest date on switchgrass quality for bioenergy. 2012 Sun Grant Initiative National Conference: Science for Biomass Feedstock Production and Utilization, New Orleans, LA, Oct. 2-5, 2012.
- Allison, A., J.P. de Koff. 2012. Identifying strategies for enhancing switchgrass quality for use as a bioenergy feedstock. Tennessee State University 34<sup>th</sup> Annual University-Wide Research Symposium, Nashville, TN, Mar. 26-30, 2012.
- de Koff, J.P., P.A. Moore, Jr., D. Pote, S.J. Formica, M. Van Eps, and P. DeLaune. 2010. Effects of pasture renovation on hydrology, nutrient runoff, and forage yield. ASA, CSSA, and SSSA 2010 International Annual Meetings, Long Beach, CA, Oct. 31-Nov. 4, 2010.
- Moore, Jr., P.A., J. de Koff, P. Kleinman, R. Williams, and R. Young. 2010. Reducing phosphorus runoff from biosolids with water treatment residuals. ASA, CSSA, and SSSA 2010 International Annual Meetings, Long Beach, CA, Oct. 31-Nov. 4, 2010.
- Moore, Jr., P.A., J.P. de Koff, R.D. Williams, R. Young, and P.J. Kleinman. 2010. Reducing phosphorus runoff from biosolids with water treatment residuals. 21st Century Watershed Technology: Improving Water Quality and Environment Conference Proceedings, 21-24 February 2010, Universidad EARTH, Costa Rica
- de Koff, J.P., B.D. Lee, S.A. Quideau, S.-W. Oh. 2008. Assessment of compost maturity indices for a high salt/high pH compost. Soil Science Society of America Annual Meeting, Houston, TX.
- de Koff, J.P., P.A. Moore, Jr., R. Williams, R. Young, D. Parker, A. Sharpley. 2008. Reducing phosphorus runoff from biosolids with water treatment residuals. Soil Science Society of America Annual Meeting, Houston, TX.

- de Koff, J.P., B.D. Lee, and R.S. Dungan. 2007. Amelioration of waste foundry sand with compost. Soil Science Society of America Annual Meeting, New Orleans, LA.
- de Koff, J.P., B.D. Lee, and R.S. Dungan. 2006. Amendment of high strength properties of waste foundry sands with gypsum. Soil Science Society of America Annual Meeting, Indianapolis, IN.
- de Koff, J.P., B.D. Lee, and R.S. Dungan. 2006. Chemical and mineralogical properties of iron and aluminum waste green foundry sands. World Congress of Soil Science, Philadelphia, PA.
- de Koff, J.P., B.D. Lee, and R.S. Dungan. 2005. Chemical and mineralogical properties of iron and aluminum waste green foundry sands. Soil Science Society of America Annual Meeting, Salt Lake City, UT.
- de Koff, J.P., R.C. Graham, K. Hubbert, and P. Wohlgemuth. 2003. Erosion of soil nutrients in pre- and post-fire chaparral by watershed position. Soil Science Society of America Annual Meeting, Denver, CO.

#### OUTREACH PUBLICATIONS AND PRESENTATIONS

##### *Publications (refereed):*

- de Koff, J.P., and P. Saini. 2022. Using drones in animal production. Tennessee State University Cooperative Extension Program, ANR-B23. Available at: <https://www.tnstate.edu/extension/documents/DroneAnimal.pdf>
- Yuldashev, F., and J.P. de Koff. 2020. Growing degree days. Tennessee State University Cooperative Extension Program, ANR-B22. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/GrowingDegreeDays.pdf>
- de Koff, J.P., and P. Saini. 2020. Using software to capture and analyze drone images. Tennessee State University Cooperative Extension Program, ANR-B21. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/DroneSoftware.pdf>
- de Koff, J.P., and P. Saini. 2020. Drone and sensor options and costs. Tennessee State University Cooperative Extension Program, ANR-B20. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/DronesandSensors.pdf>
- de Koff, J.P. 2020. Drone laws and regulations. Tennessee State University Cooperative Extension Program, ANR-B19. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/DroneLaws.pdf>

- de Koff, J.P., and P. Saini. 2020. Agricultural uses for drones. Tennessee State University Cooperative Extension Program, ANR-B18. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/DronesinAg.pdf>
- Gill, T., E. Tetteh, and J.P. de Koff. 2020. Comparison of winter canola cultivars in middle Tennessee. Tennessee State University Cooperative Extension Program, ANR-B17. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/WinterCanola.pdf>
- de Koff, J.P. 2020. Measuring infiltration rate in the field. Tennessee State University Cooperative Extension Program, ANR-16. Available at: <http://www.tnstate.edu/faculty/jdekoff/documents/InfiltrationRate.pdf>
- de Koff, J.P., P. Illukpitiya, S. Chawla, and R. Link. 2017. Industrial oilseed crops for Tennessee. Tennessee State University Cooperative Extension Program, ANR-B15. Available at: <http://www.tnstate.edu/extension/documents/Fact%20Sheet-Industrial%20oilseeds.pdf>
- de Koff, J.P., C. Robbins, and R. Link. 2016. Growing winter canola for biodiesel production. Tennessee State University Cooperative Extension Program, ANR-B14. Available at: <http://www.tnstate.edu/extension/documents/Canola.pdf>
- de Koff, J.P. 2015. Agricultural feedstocks for cellulosic ethanol and biodiesel. Tennessee State University Cooperative Extension Program, ANR-B13. Available at: <http://www.tnstate.edu/extension/documents/Feedstocks.pdf>
- de Koff, J.P. 2015. The state of the energy industry. Tennessee State University Cooperative Extension Program, ANR-B12. Available at: <http://www.tnstate.edu/extension/documents/EnergyUse.pdf>
- Illukpitiya, P., and J.P. de Koff. 2014. Economics of small-scale biodiesel production. Tennessee State University Cooperative Extension Service, ANR-B11. Available at: <http://www.tnstate.edu/extension/documents/BiodieselEconomics.pdf>
- Wade, A., and J.P. de Koff. 2014. Federal assistance programs for biodiesel production. Tennessee State University Cooperative Extension Service, ANR-B10. Available at: <http://www.tnstate.edu/extension/documents/Assistance.pdf>
- de Koff, J.P., and R. Link. 2014. Sunflower for biodiesel production. Tennessee State University Cooperative Extension Service, ANR-B9. Available at: <http://www.tnstate.edu/extension/documents/Sunflower.pdf>
- de Koff, J.P. 2014. Maximizing the biodiesel process. Tennessee State University Cooperative Extension Service, ANR-B8. Available at: <http://www.tnstate.edu/extension/documents/MaximizingProduction.pdf>

- Link, R., and J.P. de Koff. 2014. Cool-season pasture weeds. Tennessee State University Cooperative Extension Service, ANR-B7. Available at: <http://www.tnstate.edu/extension/documents/CoolSeasonWeeds.pdf>
- Link, R., and J.P. de Koff. 2014. Warm-season pasture weeds. Tennessee State University Cooperative Extension Service, ANR-B6. Available at: <http://www.tnstate.edu/extension/documents/WarmSeasonWeeds.pdf>
- Link, R., J.P. de Koff, and S. Haile. 2014. Centennial Park tree identification guide. Tennessee State University Cooperative Extension Service. Available at: <http://www.tnstate.edu/extension/documents/Centennial%20Park%20Tree%20Identification%20Guide.pdf>
- de Koff, J.P. 2013. Using audience response devices for Extension programming. Journal of Extension 51(3):3TOT4 Available at: <http://www.joe.org/joe/2013june/tt4.php>
- de Koff, J.P. 2013. Small-scale biodiesel production. Tennessee State University Cooperative Extension Service, ANR-B5. Available at: <http://www.tnstate.edu/extension/documents/SmallScaleBiodiesel.pdf>
- de Koff, J.P. 2013. Native warm-season perennial grasses for drought management in forage production. Tennessee State University Cooperative Extension Service, ANR-B4. Available at: <http://www.tnstate.edu/extension/documents/NWSG.pdf>
- de Koff, J.P. 2012. Bioenergy from agriculture. Tennessee State University Cooperative Extension Service, ANR-B3. Available at: <http://www.tnstate.edu/extension/documents/Bioenergy.pdf>
- de Koff, J.P., D.S. Pitchay, and J.O. Joshua. 2012. Leveraging university diversity to reach potential immigrant farmers. Journal of Extension 50(4) Article IW1. Available at: <http://www.joe.org/joe/2012august/iw1.php>
- de Koff, J.P., and C. Robbins. 2012. Calibrating seed drill seeding rates for native warm-season grasses. Tennessee State University Cooperative Extension Service, ANR-B2. Available at: <http://www.tnstate.edu/extension/documents/Calibration.pdf>
- de Koff, J.P., and D.D. Tyler. 2011. Improving switchgrass yields for bioenergy production. Tennessee State University Cooperative Extension Service, ANR-B1; University of Tennessee Cooperative Extension Service, W271. <http://www.tnstate.edu/extension/documents/Switchgrass.pdf>
- de Koff, J.P., B.D. Lee, and M.V. Mickelbart. 2008. Household composting: composting with worms. Purdue University Cooperative Extension Service. HENV-104-W.



de Koff, J.P., B.D. Lee, and A.P. Schwab. 2007. Avoiding arsenic exposure from treated lumber around the home. Purdue University Cooperative Extension Service. HENV-100-W.

de Koff, J.P., B.D. Lee, and A.P. Schwab. 2007. Protecting your family from lead in the home. Purdue University Cooperative Extension Service. HENV-101-W.

de Koff, J.P., B.D. Lee, and P.L. Ziemer. 2007. Radon: how to assess the risks and protect your home. Purdue University Cooperative Extension Service. HENV-102-W.

de Koff, J.P., B.D. Lee, and M.V. Mickelbart. 2007. Household composting: methods and uses for compost. Purdue University Cooperative Extension Service. HENV-103-W.

*Proceedings Paper:*

Hawkins, S., J. de Koff, Z. Helsel. 2012. Bioenergy education and outreach through eXtension.org. Proceedings from Sun Grant National Conference: Science for Biomass Feedstock Production and Utilization, New Orleans, LA.

*Trade Publications:*

Saini, P., and J.P. de Koff. 2020. Drones and dairy cows: Managing livestock. Dairy Global, 27 July, <https://www.dairyglobal.net/Smart-farming/Articles/2020/7/Drones-and-the-dairy-cows-Managing-livestock-618713E/>

de Koff, J.P. 2020. Beginner's guide to agricultural drones. Future Farming, 14 Apr., <https://www.futurefarming.com/Machinery/Articles/2020/4/Beginners-guide-to-agricultural-drones-569413E/>

*In-service trainings for Extension agents:*

de Koff, J.P. 2022. Using drones in agriculture. SARE agent training, 16 Feb., Nashville, TN.

de Koff, J.P., J. Oster, D. Morris, T. Raper, A. Shekoofa, S. Stewart, and F. Baysal-Gurel. 2020. Helping farmers adapt to a changing climate. Central Region Training, 11 Mar., Murfreesboro, TN.

de Koff, J.P., J. Oster, D. Morris, T. Raper, A. Shekoofa, S. Stewart, and F. Baysal-Gurel. 2020. Helping farmers adapt to a changing climate. Western Region Training, 22 Jan., Jackson, TN.

de Koff, J.P. 2019. Drones and their software for ag production. Row Crop In-service Training. 13 Dec., Jackson, TN.

- de Koff, J.P. 2019. Drone Certification Training. Central Region Training, 7 Mar., Murfreesboro, TN.
- de Koff, J.P. 2019. Drone Certification Training. Western Region Training, 28 Feb., Jackson, TN.
- de Koff, J.P. 2019. Drone Certification Training. Eastern Region Training, 20 Feb., Knoxville, TN.
- de Koff, J.P., M. Hubbs, and D. Morris. 2018. Soil Smarts. Central Region Training, 30 Oct., Murfreesboro, TN.
- de Koff, J.P., M. Hubbs, and D. Morris. 2018. Soil Smarts. Eastern Region Training, 18 Oct., Crossville, TN.
- de Koff, J.P., M. Hubbs, and D. Morris. 2018. Soil Smarts. Western Region Training, 4 Oct. 2018, Milan, TN.
- de Koff, J.P., and D. Morris. 2017. Winter canola production. Eastern Region Training, 9 March 2017, Knoxville, TN.
- de Koff, J.P., and D. Morris. 2017. Winter canola production. Central Region Training, 23 February 2017, Shelbyville, TN.
- de Koff, J.P., and D. Morris. 2017. Winter canola production. Western Region Training, 17 February 2017, Clarksville, TN.
- de Koff, J.P., A. Holland, and T. Prather. 2016. Sustainable agriculture and biomass energy. Central Region Training, 16 August 2016, Nashville, TN.
- de Koff, J.P., A. Holland, and T. Prather. 2016. Sustainable agriculture and biomass energy. Eastern Region Training, 27 July 2016, Lenoir City, TN.
- de Koff, J.P., A. Holland, and T. Prather. 2016. Sustainable agriculture and biomass energy. Western Region Training, 21 June 2016, Memphis, TN.
- de Koff, J.P. 2016. Twitter tips from the trenches. In-service Training Webinar, 15 March 2016, Nashville, TN.
- de Koff, J.P. 2015. Biomass energy. In-service Training Webinar, 24 March 2015, Nashville, TN.
- de Koff, J.P., and P. Illukpitiya. 2015. Economics of small-scale biodiesel production. TSU Cooperative Extension Service. In-service Training Webinar, 26 January 2015, Nashville, TN.

- de Koff, J.P. 2015. Biodiesel feedstocks for Tennessee. TSU Cooperative Extension Service. In-service Training Webinar, 13 January 2015, Nashville, TN.
- de Koff, J.P. 2015. Biodiesel basics. TSU Cooperative Extension Service. In-service Training Webinar, 6 January 2015, Nashville, TN.
- de Koff, J.P. 2013. Native warm-season grasses, Part 1: Establishment. TSU Cooperative Extension Service. In-service Training Webinar, 4 March 2013, Nashville, TN.
- de Koff, J.P. 2013. Native warm-season grasses, Part 2: Management. TSU Cooperative Extension Service. In-service Training Webinar, 11 March 2013, Nashville, TN.

*Outreach Presentations:*

- de Koff, J.P. 2023. Composting and the basics of soils. Wilson County Master Gardener Workshop, Lebanon, TN. 13 Feb.
- de Koff, J.P. 2023. Using drones in agriculture. Alabama Precision Ag Workshop, Athens, AL. 8 Feb.
- de Koff, J.P. 2023. Using drones in agriculture. USAID Farmer-to-Farmer Program, College of Agriculture, Science and Education, Portland, Jamaica, 30 Jan. – Feb. 1.
- de Koff, J.P. 2022. Using drones in agriculture. Marion County Ag Day, Jasper, TN. 28 Oct.
- de Koff, J.P. 2022. Using drones in agriculture. New Farmer Academy, Memphis, TN. 22 Sept.
- de Koff, J.P. 2022. Using drones in agriculture. Wayne County, Waynesboro, TN. 15 Sept.
- de Koff, J.P. 2022. Land judging 101. Metro Soil District Competition, Nashville, TN. 31 Aug.
- de Koff, J.P. 2022. Using drones in agriculture. New Farmer Academy, Burrville, TN. 19 Aug.
- de Koff, J.P. 2022. Bioenergy and drones in agriculture. FEM STEM Bahamas Green Energy Workshop, Grand Bahama Island, The Bahamas, 8 Aug.
- de Koff, J.P. 2022. Soil health. New Farmer Academy, Memphis, TN. 26 May.
- de Koff, J.P., and F. Yuldashev. 2022. Mobile biodiesel demonstration. Marion County Ag Day, Jasper, TN. 13 May.

de Koff, J.P. 2022. Using drones in agriculture. Marion County, Jasper, TN. 12 April.

de Koff, J.P. 2022. Aeronautical charts continued. Drone Certification Training Webinar. American Society of Agronomy. 12 April.

de Koff, J.P. 2022. Airport operations and aeronautical charts. Drone Certification Training Webinar. American Society of Agronomy. 5 April.

de Koff, J.P. 2022. Weather. Drone Certification Training Webinar. American Society of Agronomy. 29 March.

de Koff, J.P. 2022. Introduction. Drone Certification Training Webinar. American Society of Agronomy. 22 March.

de Koff, J.P. 2022. The basics of soil. New Farmer Academy, Nashville, TN. 21 March.

de Koff, J.P. 2022. Using drones in agriculture. Grundy County, Coalmont, TN. 7 March.

de Koff, J.P., M. Bhattarai, T. Gill, and K. McGeary. 2021. Recent winter canola research in Tennessee: Yield, oil, protein and pollinators. U.S. Canola Association Fall Meeting, Virtual, 9 Nov.

de Koff, J.P. 2021. Using drones in agriculture. Livestock 911 Training, Farm Animal Care Coalition of Tennessee, Spring Hill, TN. 4 November.

de Koff, J.P. 2021. Residential carbon sequestration. Uplands Lifelong Learning Institute, Virtual. 10 September.

de Koff, J.P. 2021. Using drones in agriculture. Shelby County, Memphis, TN. 28 October.

de Koff, J.P. 2021. Using drones in agriculture. Rhea County, Evensville, TN. 22 July.

de Koff, J.P. 2021. Using drones in agriculture. Van Buren County, Spencer, TN. 20 July.

de Koff, J.P. 2021. Using drones in agriculture. Blount County, Maryville, TN. 13 July.

de Koff, J.P. 2021. Using drones in agriculture. Maury County, Spring Hill, TN. 22 June.

de Koff, J.P., and T. Broyles. 2021. STEM concepts with drones. 4-H Electric Camp. Crossville, TN. 14 June.

de Koff, J.P. 2021. Drone certification training. Tennessee College of Applied Technology. Virtual. 11 June.

de Koff, J.P. 2021. Mobile biodiesel demonstration. Bel-Aire Elementary, Tullahoma, TN. 10 May.

de Koff, J.P. 2021. Soil health. New Farmer Academy – Western Region. Virtual. 29 April.

de Koff, J.P. 2021. Drones in agriculture. New Farmer Academy – Eastern Region. Rocky Top, TN. 15-16 April.

de Koff, J.P. 2021. The basics of soils. New Farmer Academy – Central Region. Virtual. 15 March.

de Koff, J.P. 2021. Aeronautical charts continued. Drone Certification Training Webinar. American Society of Agronomy, 23 Feb.

de Koff, J.P. 2021. Airport operations and aeronautical charts. Drone Certification Training Webinar. American Society of Agronomy. 16 Feb.

de Koff, J.P. 2021. Weather. Drone Certification Training Webinar. American Society of Agronomy. 9 Feb.

de Koff, J.P. 2021. Introduction. Drone Certification Training Webinar. American Society of Agronomy. 2 Feb.

de Koff, J.P. 2020. Drones in agriculture. TSU Small Farm Expo, 3 Sept.

de Koff, J.P. 2020. Drone certification training. 18 Aug.

de Koff, J.P. 2020. TN CTE Drone Curriculum Training Webinar. 2020 Institute for CTE Educators, 20-24 July.

de Koff, J.P. 2020. TAAE Drone Curriculum Training Webinar. Tennessee Association of Agricultural Educators, 16-17 June.

de Koff, J.P. 2020. Drone Certification Training Webinar. University of Georgia, 12 May.

de Koff, J.P. 2020. Aeronautical charts continued. Drone Certification Training Webinar. American Society of Agronomy, 23 March.

de Koff, J.P. 2020. Airport operations and aeronautical charts. Drone Certification Training Webinar. American Society of Agronomy. 16 March.

de Koff, J.P. 2020. Drones in agriculture. Cow and Calf Expo. Springfield, TN. 11 March.

de Koff, J.P. 2020. Weather. Drone Certification Training Webinar. American Society of Agronomy. 9 March.

de Koff, J.P. 2020. Introduction. Drone Certification Training Webinar. American Society of Agronomy. 2 March.

de Koff, J.P. 2020. Drones in agriculture. Sullivan County. Blountville, TN. 27 Feb.

Saini, P., and J.P. de Koff. 2020. Drones in agriculture. PickTN Conference, Franklin, TN. 20 Feb.

de Koff, J.P. 2020. Drone certification training. Lexington, KY. 13 Feb.

de Koff, J.P. 2020. Drone certification training. Princeton, KY. 11 Feb.

de Koff, J.P. 2020. Drones in agriculture. Smith County. Carthage, TN. 6 Feb.

de Koff, J.P. 2020. Drones in agriculture. Loudon County. Loudon, TN. 4 Feb.

de Koff, J.P., M. Garrison. 2020. Drones in agriculture. Marion County. Jasper, TN. 30 Jan.

de Koff, J.P. 2020. Drones in agriculture. Carter County. Johnson City, TN. 28 Jan.

de Koff, J.P., T. Broyles, M. Purucker. 2019. Drones in agriculture. Shelby County. Memphis, TN. 16 Oct., 2019.

de Koff, J.P., T. Broyles, M. Garrison, M. Purucker, C. Jordan. 2019. Drones in agriculture. New Farmer Academy. Rugby, TN. 27 Sept., 2019.

de Koff, J.P. 2019. Aeronautical charts continued. Drone Certification Training Webinar. American Society of Agronomy. 24 Sept., 2019

de Koff, J.P., R. Barron, R. Norman. 2019. Soil health. Montgomery County Producers' Meeting. Southside, TN. 19 Sept., 2019.

de Koff, J.P. Airport operations and aeronautical charts. Drone Certification Training Webinar. American Society of Agronomy. 17 Sept., 2019.

de Koff, J.P., T. Broyles, M. Garrison, P. Saini, and M. Purucker 2019. Drones in agriculture. New Farmer Academy. Nashville, TN. 16 Sept., 2019.

- de Koff, J.P. 2019. Soil judging demonstration. District Soil Judging Competition, Nashville, TN. 11 Sept., 2019.
- de Koff, J.P. 2019. Weather. Drone Certification Training Webinar. American Society of Agronomy. 10 Sept., 2019.
- de Koff, J.P. 2019. Drones in agriculture. Women in Agriculture Conference. Nashville, TN. 6 Sept., 2019.
- de Koff, J.P. 2019. Introduction. Drone Certification Training Webinar. American Society of Agronomy. 3 Sept., 2019
- de Koff, J.P. 2019. Soil health. New Farmer Academy – Turney Center. Turney Center Correctional Facility, Only, TN. 2 July, 2019.
- de Koff, J.P. 2019. Soil health. New Farmer Academy. Memphis, TN. 23 May, 2019.
- de Koff, J.P. 2019. Soil fertility. New Farmer Academy. Nashville, TN. 18 March, 2019.
- de Koff, J.P. 2019. Soil fertility and composting. Williamson County Master Gardener Training. Franklin, TN. 20 Feb., 2019.
- de Koff, J.P. 2018. Soil judging demonstration. District Soil Judging Competition, Nashville, TN. 6 Sept., 2018.
- de Koff, J.P. 2018. Teaching Twitter tips for Extension excellence. National Association of County Agricultural Agents Annual Meeting, Chattanooga, TN. 31 July, 2018.
- de Koff, J.P. 2018. Drones for agricultural decision-making. TSU Small Farm Expo, Nashville, TN. 19 July, 2018.
- de Koff, J.P. 2018. How drones are changing agricultural and historic preservation practices. **Invited speaker.** Economics of agriculture: From the Jacksonian era to present, Educator training sponsored by Federal Reserve Bank of Atlanta – Nashville Branch, Nashville, TN. 18 July, 2018.
- de Koff, J.P. 2018. Bioenergy Production Demonstration. Montgomery County Summer Extern Program, Clarksville, TN. 7 June, 2018.
- de Koff, J.P. 2018. Mobile biodiesel demonstration. West Middle School STEAM Week, Tullahoma, TN. 22 & 24 May, 2018.
- de Koff, J.P. 2018. Mobile biodiesel demonstration. North Middle School STEM Week, Winchester, TN. 8-9 May, 2018.

- de Koff, J. 2018. The basics of soils. TSU New Farmer Academy at Turney Center. Only, TN. 26 Apr., 2018.
- de Koff, J. 2018. Soil fertility and composting. Williamson County Master Gardener Training. Franklin, TN. 27 Feb., 2018.
- de Koff, J. 2018. To fertility and beyond: Understanding soil fertility and soil health for sustainable production. PickTN Conference, Chattanooga, TN. 17 Feb., 2018.
- de Koff, J. 2018. Soil fertility and composting. Rutherford County Master Gardener Training. Murfreesboro, TN. 13 Feb., 2018.
- de Koff, J. 2017. Biodiesel titration workshop. Glencliff High School, Nashville, TN. 30 Nov., 2017.
- de Koff, J. 2017. Professional use of social media. Hot Topics in Agriculture, Students of Agronomy, Soils, and Environmental Sciences (SASES). **Invited speaker.** ASA, CSSA, and SSSA 2017 International Annual Meetings, Tampa, FL, Oct. 22 – 25, 2017.
- de Koff, J. 2017. Bioenergy production demonstration. Joelton Elementary, Nashville, TN. 14 Sept., 2017.
- de Koff, J. 2017. Soil judging demonstration. District Soil Judging Competition, Nashville, TN. 6 Sept., 2017.
- Link, R., S. Chawla, and J.P. de Koff. Bioenergy Production Demonstration. 4-H STEM Camp, Lone Oaks Farm, Middleton, TN. 12 July, 2017.
- de Koff, J.P. 2017. Bioenergy Production Demonstration. Montgomery County Summer Extern Program, Clarksville, TN. 13 June, 2017.
- de Koff, J.P. 2017. Soil texture analysis. Metro Schools Summer Program, Nashville, TN. 7-8 June, 2017.
- de Koff, J.P. 2017. Mobile biodiesel demonstration. North Middle School STEM Week, Winchester, TN. 9 May, 2017.
- de Koff, J.P. 2017. The basics of soils. New Farmer Academy, Nashville, TN. 20 March, 2017.
- de Koff, J.P. 2017. Soil science for Master Gardeners. Master Gardener Training, Franklin, TN. 14 February, 2017.



- de Koff, J.P. 2017. Bioenergy demonstration. Glencliff High School, Nashville, TN. 9 February, 2017.
- de Koff, J.P. 2016. Mobile biodiesel demonstration. West Middle School STEAM Week, Tullahoma, TN. 15 December, 2016.
- de Koff, J.P. 2016. Make America's soils great again: winter canola's role as protector and provider. Nashville Local Food Summit, Nashville, TN. 3 December, 2016.
- de Koff, J.P. 2016. Winter canola and biodiesel production. Cheatham County Boy Scouts, Ashland City, TN. 29 November, 2016.
- de Koff, J.P. 2016. Biodiesel production. Introduction to Alternative Energy, Whites Creek High School, Nashville, TN. 18 October, 2016.
- de Koff, J.P. 2016. Biodiesel production demonstration. Cheatham County Youth Leadership Program, Ashland City, TN. 4 October, 2016.
- de Koff, J.P. 2016. Soil judging demonstration. District Soil Judging Competition, Nashville, TN. 15 September, 2016.
- de Koff, J.P. 2016. Bioenergy production demonstration. Cumberland County Fair, Crossville, TN. 29 August, 2016.
- de Koff, J.P. 2016. The basics of soils. New Farmer Academy, Nashville, TN. 20 June, 2016.
- de Koff, J.P. 2016. Biodiesel production demonstration and titration laboratory activity. School for Science and Math at Vanderbilt Summer Program, Nashville, TN. 17 June, 2016.
- de Koff, J.P. 2016. Biodiesel production demonstration and titration laboratory activity. School for Science and Math at Vanderbilt Summer Program, Nashville, TN. 16 June, 2016.
- de Koff, J.P. 2016. Composting: a natural method for sustainable gardening. Williamson County Master Gardener Program, Franklin, TN. 13 June, 2016.
- de Koff, J.P. 2016. Bioenergy production demonstration. West Middle School, Franklin County, Tullahoma, TN. 13 May, 2016.
- de Koff, J.P. 2016. Bioenergy production demonstration. Rutherford County STEM Camp, Murfreesboro, TN. 1 Apr., 2016.
- de Koff, J.P. 2016. Bioenergy production demonstration. Grundy County High School, Coalmont, TN. 23 Mar., 2016.

- de Koff, J.P. 2016. Bioenergy production demonstration. Coffee County High School, Manchester, TN. 22 Mar., 2016.
- de Koff, J.P. 2016. Biodiesel and ethanol production laboratory and mobile biodiesel demonstration. Chicago High School Students Visiting Day, Nashville, TN. 11 Mar., 2016.
- de Koff, J.P. 2016. Bioenergy activity for youth. John Overton High School Engineering Day, Nashville, TN. 25 Feb., 2016.
- de Koff, J.P. 2016. Soil improvement and soil health. Landscape Management Short Course, Franklin, TN. 12 Jan., 2016.
- de Koff, J.P. 2015. Growing winter canola. Co-op Crop Production Workshop, Murfreesboro, TN. 9 Dec., 2015.
- de Koff, J.P. 2015. Native warm-season grasses and teff for forage. Beef Producers Meeting, Shelbyville, TN. 19 Oct., 2015.
- de Koff, J.P. 2015. How urban soils and biofuels can impact our urban forests. 24<sup>th</sup> Annual Urban Forestry Conference, Memphis, TN, 1-2 Oct., 2015.
- de Koff, J.P. 2015. Mobile biodiesel demonstration. Tennessee State Fair, Nashville, TN 11 Sept. – 20 Sept., 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Farm Day at Titans Stadium, Nashville, TN, 23 Aug., 2015.
- de Koff, J.P. 2015. Better soil for better turf and fewer pesticides. Commercial Horticulture Applicator's Training, Murfreesboro, TN, 12 Aug., 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration, 11<sup>th</sup> Annual Small Farm Expo, Nashville, TN, 30 July, 2015.
- de Koff, J.P. 2015. Biofuel production. Mobile biodiesel demonstration, 3<sup>rd</sup> Annual Agriculture Outreach and Assistance Conference, Murfreesboro, TN, 14-15 July, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Curriculum for Agricultural Science Education Training Program, Nashville, TN, 29 June, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Biofuel technologies teacher workshop, Nashville, TN, 4 June, 2015.

- de Koff, J.P. 2015. Making biofuel from different sources. Biofuel technologies middle school workshop, Nashville, TN, 4 June, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Biofuel technologies teacher workshop, Nashville, TN, 4 June, 2015.
- de Koff, J.P. 2015. Making biodiesel from vegetable oil. Biofuel technologies high school workshop, Nashville, TN, 3 June, 2015.
- de Koff, J.P., and F. Tegegne. 2015. Biofuel feedstocks and economic issues. Biofuel technologies high school workshop, Nashville, TN, 3 June, 2015.
- de Koff, J.P. 2015. Basic biofuels conversions. Biofuel technologies teacher workshop, Nashville, TN, 3 June, 2015.
- de Koff, J.P. 2015. Environmental effects of bioenergy feedstocks. Biofuel technologies teacher workshop, Nashville, TN, 3 June, 2015.
- de Koff, J.P. 2015. State of the energy industry. Biofuel technologies teacher workshop, Nashville, TN, 3 June, 2015.
- de Koff, J.P. 2015. Winter canola and biodiesel production. Winter Canola and Biodiesel Field Day. Cheatham County, TN, 19 May, 2015.
- de Koff, J.P. 2015. The basics of soils. New Farmer Program, Nashville, TN, 18 May, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, TN FFA Convention, Gatlinburg, TN, 30-31 March, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Dyer County, TN, 26 March, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Franklin County, TN, 19 March, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Monroe County, TN, 12 March, 2015.
- de Koff, J.P. 2015. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Fayette County, TN, 9 March, 2015.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration. College and Research Showcase, 16 Oct., 2014.

- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Lebanon High School Ag Day, 25 Sept., 2014.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration, Cheatham County High School, 19 Sept., 2014.
- de Koff, J.P. 2014. How to evaluate soils for land judging. Nashville Metro Schools 16 Sept., 2014.
- de Koff, J.P. 2014. Mobile biodiesel demonstration. Tennessee State Fair, Nashville, TN 5 Sept. – 14 Sept. 2014.
- de Koff, J.P., and R. Link. 2014. Mobile biodiesel demonstration. 2<sup>nd</sup> Annual Back to School Bash, Halls, TN, 5 Aug., 2014.
- de Koff, J.P. 2014. Mobile biodiesel demonstration. 10<sup>th</sup> Annual Small Farm Expo, Nashville, TN, 17 July, 2014.
- de Koff, J.P. 2014. Making biodiesel from vegetable oil. Biofuel technologies high school workshop, Nashville, TN, 2 July, 2014.
- de Koff, J.P., and F. Tegegne. 2014. Biofuel feedstocks and economic issues. Biofuel technologies high school workshop, Nashville, TN, 2 July, 2014.
- de Koff, J.P. 2014. Basic biofuels conversions. Biofuel technologies teacher workshop, Nashville, TN, 1 July, 2014.
- de Koff, J.P. 2014. Environmental effects of bioenergy feedstocks. Biofuel technologies teacher workshop, Nashville, TN, 1 July, 2014.
- de Koff, J.P. 2014. State of the energy industry. Biofuel technologies teacher workshop, Nashville, TN, 1 July, 2014.
- de Koff, J.P. 2014. Making biofuel from different sources. Biofuel technologies middle school workshop, Nashville, TN, 30 June, 2014.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Davidson County, TN, 17 June, 2014.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Morgan County, TN, 13 March, 2014.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Dyer County, TN, 6 March, 2014.

- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Tipton County, TN, 26 Feb., 2014.
- de Koff, J.P. 2014. Biodiesel production and feedstocks. Mobile biodiesel demonstration workshop, Franklin County, TN, 17 Feb., 2014.
- de Koff, J.P. 2014. Mobile biodiesel demonstration. 9<sup>th</sup> Annual Rutherford County Agriculture Seminar, 7 Feb., 2014.
- de Koff, J.P., C. Robbins, R. Link. 2013. Mobile biodiesel demonstration. Tennessee State Fair, Nashville, TN 6 Sept. – 15 Sept. 2013.
- de Koff, J.P., C. Robbins. 2013. Mobile biodiesel demonstration. 9<sup>th</sup> Annual Small Farm Expo, Nashville, TN, 18 July, 2013.
- de Koff, J.P. 2013. Small-scale biodiesel production. Small Farm Outreach and Assistance Program, Nashville, TN, 27 February – March 1, 2013.
- de Koff, J.P. 2013. Native warm-season grasses for drought management. Small Farm Outreach and Assistance Program, Nashville, TN, 27 February – March 1, 2013.
- de Koff, J.P. 2013. Small-scale biodiesel production. TSU Extension Virtual Coffee Shop Webinar, Nashville, TN, February 2013.
- de Koff, J.P. 2013. Native warm-season grasses for forage and bioenergy. Wilson County Extension Meeting, Lebanon, TN, February 2013.
- de Koff, J.P. 2012. Using student response clickers to maximize impact and evaluation of Extension presentations to stakeholders. American Society of Agronomy Annual Meeting, 21-24 Oct., Cincinnati, OH.
- de Koff, J.P. 2012. Bioenergy programming needs in Tennessee. 6<sup>th</sup> National Small Farm Conference, Memphis, TN, Sept. 18-20, 2012.
- de Koff, J.P. 2012. ABCs of Bio-Fuel. **Invited Speaker**, Association of Extension Administrators Extension Conference, 24-28 June, Memphis, TN.
- de Koff, J.P. 2012. Biodiesel feedstocks and production. Franklin County Extension Meeting, Winchester, TN, May 2012.
- de Koff, J.P. 2012. Native warm season grasses for forage and bioenergy. Giles County Cattleman's Association Field Day, Lynnville, TN, March 2012.
- de Koff, J.P. 2012. Using switchgrass for forage and biofuel production. Small Farm Outreach and Assistance Program, Nashville, TN, 22-24 February.

- de Koff, J.P. 2012. Using switchgrass for forage and biofuel production. TSU Extension Virtual Coffee Shop Webinar, Nashville, TN, January 2012.
- de Koff, J.P. 2011. Switchgrass: forage and biofuel production. 2<sup>nd</sup> Annual Smith County Beef Day, Carthage, TN, October 2011.
- de Koff, J.P. 2011. Using switchgrass for forage and biofuel production. Lawrence County Beef Producers Meeting, Lawrenceburg, TN, June 2011.
- de Koff, J.P. 2011. Growing a hummingbird garden. Tennessee State University Gardening Program, Nashville, TN, May 2011.
- de Koff, J.P. 2011. Tomato production. Tennessee State University Gardening Program, Nashville, TN, April 2011.
- de Koff, J.P. 2011. Composting for the garden. Tennessee State University Gardening Program, Nashville, TN, March 2011.
- Pitchay, D., and J.P. de Koff. 2011. Get to know your soil. Tennessee State University Gardening Program, Nashville, TN, Feb. 2011.
- de Koff, J.P. 2011. The DIRT on Soils. Tennessee Master Gardeners Winter School, UT Cooperative Extension Service, Murfreesboro, TN, Feb. 2011.
- de Koff, J.P. 2011. Switchgrass production for bioenergy. Montgomery County Extension Meeting, Clarksville, TN, Feb. 2011.
- de Koff, J.P. 2011. Switchgrass production for biofuels. 6<sup>th</sup> Annual Rutherford County Agriculture Seminar, Murfreesboro, TN, Feb. 2011.
- de Koff, J.P. Composting: a natural method for creating natural habitat. Habitat Stewards Training Workshop, Indiana Wildlife Federation, Fishers, IN. March 2008.
- de Koff, J.P., B.D. Lee, and R.S. Dungan. Amendment of high strength properties of waste foundry sands with gypsum. Indiana Cast Metals Association, Indianapolis, IN. November 2006.
- de Koff, J.P., and B.D. Lee. Beneficial reuse of foundry sands. Indiana Cast Metals Association Board Meeting, Indianapolis, IN. May 2005.