

**CURRICULUM VITAE**  
**SAMUEL G. MCNEILL, PH.D., P.E.**

Extension Professor  
Biosystems & Agricultural Engineering Department  
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**EDUCATION:**

- Ph.D. in Agricultural Engineering. University of Tennessee, Knoxville, TN. Dec. 1996.
- M.S. in Agricultural Engineering. University of Kentucky, Lexington, KY. May 1979.
- B.S. in Agricultural Engineering. University of Kentucky, Lexington, KY. Dec. 1974.

**EXPERIENCE:**

- Jul 2018 – present. **Extension Professor**, Biosystems and Agricultural Engineering Department, University of Kentucky, Research & Education Center. Princeton, KY.
- Jan 2004 – Jun 30, 2018. **Associate Extension Professor**, Biosystems and Agricultural Engineering Department, University of Kentucky, Princeton, KY.
- Jan 1998 – Dec 2003. **Assistant Extension Professor**, Biosystems and Agricultural Engineering Department, University of Kentucky, Princeton, KY.
- Jan 1979 – Dec 1997. **Extension Specialist**, Agricultural Engineering Department, University of Kentucky, Research & Education Center, Princeton, KY.
- Jan 1975 – Dec 1977. **Agricultural Engineer**, Agricultural Engineering Department, University of Kentucky, Lexington, KY.

**PROGRAM EMPHASIS:**

Develop and maintain a statewide grain postharvest engineering extension program that is nationally recognized. Develop educational materials and deliver programs that focus on grain handling, drying, cleaning and storage systems and optimization of energy resources. Conduct multi-disciplinary applied research to compliment my postharvest engineering extension program.

**LICENSURE:**

**Professional Engineer**, Agricultural Engineering, Commonwealth of Kentucky, Certificate Number #21820, December 2000 to present.

**RESEARCH**

**FUNDED PROJECTS:**

*Active (\$1,398,987 total)*

1. **McNeill, S.** and M. Montross. Technical assistance for energy efficiency grants in rural Kentucky. USDA Rural Development for Energy Audits. Duration: 4/22 – 3/24. \$100,890. PI.

- Mazur J., Jones K., R., Winter K., T., Montross M., D., Palli S., R., Vincent S., K., Sampson S., O., **McNeill S.**, G., Browning S., R., Christian W., J., Sanderson W., T., Southeast Center for Agricultural Health and Injury Prevention, Sponsored by National Institute of Occupational Safety and Health. Duration: 9/22 – 9/27. \$1,298,097. CoI.

*Previously Funded (Total: \$9,420,445 | UK share: \$3,109,395 since 1994)*

- Corbin, K. and **S. McNeill**. Understanding the effects of storage on baking quality and nutritional value of Kentucky soft red winter wheat. Siemer Milling Co. Duration: 9/19 – 8/20. \$15,098. CoI.
- McNeill, S.**, D. Overhults, M. Montross. Technical assistance for energy audits and renewable energy systems in rural Kentucky. USDA Rural Development for Energy Audits. Duration: 3/19 – 9/20. \$99,976. PI.
- McNeill, S.** Alliance for food security by reducing post-harvest losses of grains in Ghana. KSU Feed the Future Innovation Lab for the Reduction of Postharvest loss thru Oklahoma State University. Duration: 1/14 to 10/19. Award: \$1,011,222 (UK: \$65,766). Co-I.
- McNeill, S.** Commodity handling and storage in Nigeria--technical assistance. USDA-FAS. Award: Duration: 12/14 to 9/19. Award: \$912,293. (UK: \$131,207). PI.
- McNeill, S.** Assisting management in the poultry and layer industries by feed improvement and efficiency strategies in Ghana. ASA/WISHH thru Oklahoma State University. Duration: 10/15 – 9/19. Award: \$524,928. (UK: \$29,270). PI.
- McNeill, S.**, D. Overhults, M. Montross. Technical assistance for energy use on Kentucky farms. USDA Rural Development for Energy Audits. Duration: 4/17 – 3/19. Award: \$72,638. PI.
- Maier, D., **S. McNeill**, K. Ambrose, C. Campabadal, P. Armstrong, F. Arthur and J. Campbell. Developing improved solar dryers for corn in Ghana. USDA-SCRIP. Duration: 10/16 – 9/18. Award: \$39,974 (UK: \$3610). Co-I.
- Sama, M., M. Montross, J. Dvorak, T. Mark, **S. McNeill**. Development of a CAN-based data management and decision support system for optimal equipment and harvest timing from grain harvest to storage. USDA-AFRI. Project duration: 10/15 – 9/18. \$500,000. Collab.
- Dvorak, J., **S. McNeill** and J. Shockley. High moisture soybean delivery advice app. KSPB. Duration: 8/16 – 7/17. Award: \$13,945. Co-I.
- McNeill, S.**, D. Overhults, M. Montross. Technical assistance for energy audits and renewable energy projects in rural Kentucky. USDA Rural Development for Energy Audits. Duration: 4/15 – 3/17. Award: \$63,970. PI.
- McNeill, S.** Assisting management in the poultry and layer industries by feed improvement and efficiency strategies in Ghana. USDA Foreign Agricultural Service (FAS) and American Soybean Association. Duration: 10/16 to 9/18. Award: \$449,990 (UK: \$29,270) from Oklahoma State University. CoI.
- Atungulu, G. **S. McNeill**, C. Jones and J. Ward. Reducing aflatoxin contamination of corn in on-farm bin drying and storage systems. National Corn Growers Association. Duration: 4/15 to 3/16. Award: \$15,000 (UK: \$5,000). CoI.
- Montross, M. and **S. McNeill**. Factors that affect packing during storage. NC-213 The Andersons Research Grant Program. Duration: 1/15 to 12/17. Award: \$100,000 (UK: \$50,000). CoI.
- McNeill, S.**, D. Maier, K. Hellevang. Revision of MWPS Handbook on drying, handling and storing grain. NC-213 The Andersons Research Grant Program. Duration; 1/14 to 12/16. Award: \$19,640 (UK: \$2,000). PI.

17. **McNeill, S.,** D. Overhults, and M. Montross. Technical Assistance for Energy Audits and Renewable Energy Projects in Rural Kentucky. USDA Rural Development. Duration: 4/15 to 3/17. Award: \$63,970. PI.
18. **McNeill, S.** Alliance for food security by reducing post-harvest losses of grains in Ghana. USDA FAS. Duration: 1/14 to 12/18. Award: \$786,222 (UK: \$25,358) from Oklahoma State University.
19. **McNeill, S.** Commodity storage and handling in Nigeria--technical assistance. USDA FAS. Duration: 12/14 to 9/17. Award: \$912,293 (UK: \$109,301). PI.
20. **McNeill, S.,** D. Overhults, M. Montross and S. Shearer. Energy audits for grain and poultry producers in Kentucky. USDA Rural Development. Duration: 10/10 to 4/14. Award: \$100,000.
21. **McNeill, S.,** L. Meyer, G. Halich, C. Lee, M. Bomford and J. Schmitz. Developing an organic corn enterprise in Kentucky. Southern Sustainable Agriculture Research and Extension. 7/12 to 6/13. Award: \$10,000.
22. **McNeill, S.** Reducing post-harvest grain losses in Ghana. USDA FAS. Duration: 2/1/10 to 9/31/11. Award: \$149,036 (UK: \$27,700). PI.
23. **McNeill, S.** Nigeria commodity storage and handling – technical assistance. USDA FAS. Duration: Duration: 2/10 to 9/11. Award: \$360,030 (UK: \$75,460). PI.
24. **McNeill, S.** Nigeria commodity storage and handling – assessment of in-country facilities. USDA FAS. Duration: Duration: 9/09 to 11/09. Award: \$30,532 (UK: \$9,924). PI.
25. Montross, M. and **S. McNeill.** Laboratory and field data for establishing new grain packing factors. USDA Risk Management Agency. Duration: 9/09 to 12/13. Award: \$999,890 (UK: \$370,000). CoI.
26. Johnson, D., **S. McNeill** and M. Montross. Incidence and spread of insects from bucket elevator leg boots. NC-213 The Andersons Research Grant Program. Duration: 1/09 to 6/11. Award: \$75,000. PI.
27. **McNeill, S.,** M. Montross, L. Murdock, J. Herbek, J. Martin, D. Hershman, D. Johnson, J. Roberts, B. Caldbeck and J. Hagan. Canola and sunflower for oil/biofuel production in Kentucky. Governor's Office for Energy Policy. Duration: 6/07 to 7/08. Award: \$57,487 (UK portion: \$25,537). PI.
28. Buschermohle, M., C.R. Patrick, L.O. Pordesimo, **S.G. McNeill,** D.W. Johnson and M.D. Montross. Integrating IPM Strategies in on-farm stored wheat in Tennessee and Kentucky. USDA Integrated Pest Management Program. Duration: 7/03 to 6/05. Award: \$29,922. CoI.
29. **McNeill, S.G.,** M.D. Montross, R. Andrews and S. Van Sickle. Converting soybean oil to hydrogen for fuel cell development. Kentucky Soybean Promotion Board. Duration: 4/03 to 6/04. Award: \$6,670. PI.
30. Dillon, C.R., J.P. Fulton, S. Issacs, **S.G. McNeill,** M.D. Montross, S.A. Shearer and T.S. Stombaugh. Tacking field operations for economic analysis and identity-preservation. USDA-CSREES (Precision Ag.—Round IV. Duration: 5/03 to 12/04. Award: \$112,494. CoI.
31. Shearer, S.A., J.P. Fulton, **S.G. McNeill** and S.F. Higgins. Voice recognition for field data collection. USDA-CSREES (Precision Ag.—Round III). Duration: 5/03 to 12/04. Award: \$64,610.
32. Montross, M.D., T.S. Stombaugh, S.A. Shearer, T.G. Muller and **S.G. McNeill.** Real-time soil sampler and analyzer using near-infrared reflectance. USDA-CSREES Precision Agriculture Practices in Kentucky—Round III. Duration: 5/03 to 12/04. Award: \$59,916. CoI.

33. Montross, M.D., T.S. Stombaugh, S.A. Shearer and **S.G. McNeill**. Post-harvest physical properties of corn stover. Oak Ridge National Laboratory. Duration: Duration: 8/01 to 9/03. Award: \$139,674. CoI.
34. Montross, M.D. and **S.G. McNeill**. Grain Quality Laboratory. Kentucky Corn Growers Association. Duration: 7/01-7/03. Award: \$32,000. Regionally competitive. CoI.
35. Buschermohle, M., P.L. Kenkel, C.R. Patrick, L.O. Pordesimo, D.W. Johnson **S.G. McNeill**, and M.D. Montross. Integrating IPM strategies in on-farm stored grain in Tennessee and Kentucky. Integrated Pest Management Program. Duration: 6/01 to 6/03. Award: \$29,735. CoI.
36. Montross, M.D. and **S.G. McNeill**. Use of Near Infrared Reflectance to Determine Flour Quality. Kentucky Small Grain Growers Association. Duration: 8/01 to 8/02. Award: \$2,000. CoI.
37. Montross M.D., **S.G. McNeill** and D.E. Maier. Optimization of aeration systems for value-added crop preservation. USDA-NRICGP. 12/00 to 12/03. Award: \$200,000. CoI.
38. Montross, M.D., R.S. Gates, **S.G. McNeill**, G.A. Duncan and D.G. Overhults. Dew point hygrometers. 2002 UK Major Research Equipment Initiative. Duration: 1/02 to 12/02. Award: \$9,225.
39. Burks, T.F., S.A. Shearer, L.G. Wells, **S.G. McNeill**, F.P. Fulton and S.F. Higgins. Dynamic testing of force-impetus yield monitors. USDA-CSREES (Precision Ag.—Round II). Duration: 6/00 to 6/03. Award: \$38,000. CoI.
40. Shearer, S.A., J.P. Fulton, **S.G. McNeill** and S.F. Higgins. Spatial applications for agriculture: educational case studies. USDA-CSREES (Precision Ag.—Round II). Duration: 6/00 to 6/03. Award: \$80,628. CoI.
41. **McNeill, S.G.**, M.D. Montross and D.M. TeKrony. Drying and storage properties of selected specialty grains. USDA-CSREES (New Crop Opportunities). Duration: 4/00 to 5/03. Award: \$17,600.
42. Montross, M.D. and **S.G. McNeill**. Variability of value-added components in corn during handling. Kentucky Corn Growers Association. Duration: 07/00 to 04/02. Award: \$1,500. CoI.
43. **McNeill S.G.**, C.G. Poneleit, S.A. Shearer and S. Riggins. Spatial variability of value-added components of corn, soybeans and wheat in Kentucky. Special USDA-CSREES (Precision Agriculture—Round I). Duration: 6/99 to 6/02. Award: \$31,875. CoI.
44. Shearer, S.A., J.P. Fulton **S.G. McNeill**. Test stand for grain combine yield monitors. USDA-CSREES (Precision Ag.—Round I). Duration: 6/99 to 6/02. Award: \$40,000. CoI.
45. **McNeill, S.G.** and S.A. Shearer. No-till drill performance assessment for wheat stand establishment following corn. Kentucky Small Grain Fund Utilization Committee. Duration: 9/98 to 8/99. Award: \$4,715. PI.
46. Lucas, P.L., **S.G. McNeill**, L.W. Murdock and P.L. Howe. GPS Training and Education Program. UK College of Agriculture Program Enhancement Grant. Duration: 3/98 to 12/98. Award: \$3,500. CoI.
47. Shearer S.A. and **S.G. McNeill**. No-Till Drill Performance Assessment for Wheat Stand Establishment Following Corn. Kentucky Small Grain Growers Association. Duration: 9/97 to 12/98. Award: \$4,390. PI.
48. **McNeill, S.G.** and S.A. Shearer. Agricultural pesticide handling and application technology demonstrations. USEPA-NPS 319(h). Duration: 03/94 to 12/99. Award: \$195,000. PI.

**REFEREED PUBLICATIONS:**

1. Omodara, M., M. Montross, **S. McNeill**, M. Sama and D. Carr. 2022. Development of a monitoring system to assess the internal environment of bagged grain in storage. *Applied Engr. in Agric.* 38(2): 387-394. doi.org/10.13031/aea.14528
2. Omobowale, M.O., J.C. Ogwumike, A.E. Olenloa, O.R. Kolayemi, A.A. Ala, M.O. Omodara, G. O. Otitodun, S.I. Nwaubani, K.E. Ileleji, **S.G. McNeill** and G.P. Opit. 2022. Technical appraisal of some maize shellers in Oyo and Kwara States of Nigeria. *Arid Zone J. of Engr., Tech. & Envmt.* 18(1):1-14. ISSN: 2545-5818.
3. Armah, K.A., J.O. Akowuah, G. Obeng-Akrofi, and **S.G. McNeill**. 2021. Application of an analytical hierarchy process in the selection of an appropriate drying platform for maize drying in a solar bubble dryer. *Open J. of Applied Sci.* Vol. 11, No. 1. [doi.org/10.4236/ojapps.2021.111011](https://doi.org/10.4236/ojapps.2021.111011)
4. Omobowale, M.O., J.C. Ogwumike, A.E. Olenloa, O.R. Kolayemi, A.A. Ala, J.A. Braimah, S.K. Ajao, G.S. Busari., Otitodun. G.O., S.I. Nwaubani, K.E. Ileleji, **S.G. McNeill** and G.P. Opit. 2021. Technical appraisal of maize threshers in Nigeria. *African J. of Food, Ag, Nutrition and Development.*
5. Otitodun. G.O., A.A. Ala, S.I. Nwaubani, M.O. Omobowale, S.K. Ajao, M.O. Ogundare, A.E. Olenloa, G.S. Busari., G.I. Abel, J.A. Braimah, O.R. Kolayemi, J.C. Ogwumike, G.P. Opit, K.E. Ileleji, and **S.G. McNeill**. 2021. Assessing Efficacies of Insect Pest Management Methods to Preserve Nutritional Composition of Bagged Maize in Storehouses Located in Markets in Nigeria. *African J. of Food, Ag, Nutrition and Development.*
6. Rod, K.S., J.W. Earnest, **S.G. McNeill**, C. Bradley, C.A. Knott. 2020. Deoxynivalenol contamination for different wheat grain handling conditions. *Crop, Forage & Turfgrass Management.* 6(1). doi.org/10.1002/cft2.20017.
7. Ala, A., G. Otitodun, S. Ajao, S. Nwaubani, G. Opit, M. Ogundare, J. Braimah, G. Busari, G. Abel, M. Omobowale, A. Olenloa, J. Ogwumike, O. Kolayemi, **S. McNeill** and K. Ileleji. 2020. A comparison of integrated pest management and traditional practices for bagged maize stored in Nigerian. *J. Stored Prod. Res.* 86:73-79. doi.org/10.1016/j.jspr.2020.101571. IF=2.123.
8. Nwaubani, S., G. Otitodun, S. Ajao, G. Opit, A. Ala, M. Omobowale, J. Ogwumike, G. Abel, M. Ogundare, J. Braimah, B. Gbenga, A. Olenloa, O. Kolayemi, **S. McNeill** and K. Ileleji. 2020. Assessing efficacies of insect pest management methods for stored bagged maize preservation in storehouses located in Nigerian markets. *J. Stored Prod. Res.* 86:23-29. doi.org/10.1016/j.jspr.2019.101566. IF=2.123.
9. Turner, A.P., M.P. Sama, **S.G. McNeill**, J.S. Dvorak, T. Mark and M.C. Montross. 2019. A discrete event simulation model for analysis of farm scale grain transportation systems. *Computer and Electronics in Ag.* 167:40-45. Doi.org/10.1016/j.compag.2019.105040. IF=3.858.
10. Casada, M.E., S.A. Thompson, P.R. Armstrong, **S.G. McNeill**, R.G. Maghirang, M.D. Montross and A.P. Turner. 2019. Forces on monitoring cables during grain bin filling and emptying. *Appl. Eng. in Agric.* 35(3):409-415. IF=0.973.
11. Manu, N. E.A. Osekre, G.P. Opit, F.H. Arthur, G. Mbata, P. Armstrong, J.K. Danso, **S.G. McNeill**, J. Campbell. 2019. Moisture content, insect pests and mycotoxin levels of maize on farms in Tamale environs in the northern region of Ghana. *J. Stored Prod. Res.* 83:153-160. Doi.org/10.1016/j.jspr.2019.05.015. IF=2.123.
12. Bosomtwe, A., J.K. Danso, E.A. Osekre, G.P. Opit, G. Mbata, P. Armstrong, F.H. Arthur, J. Campbell, N. Manu, **S. McNeill**, and J.O. Akowuah. 2019. Effectiveness of the solar biomass

- hybrid dryer for drying and disinfestation of maize. *J. Stored Prod. Res.* 83:66-72. IF=2.123.
13. Danso, J.K., E.A. Osekre, G.P. Opit, F.H. Arthur, J.F. Campbell, G. Mbata, N. Manu, P. Armstrong and **S. McNeill**. 2019. Impact of storage structures on moisture content, insect pests and mycotoxin levels of maize in Ghana. *J. Stored Prod. Res.*81:114-120. IF=2.123.
  14. Manu, N., G. Opit, E. Osekre, F. Arthur, G. Mbata, P. Armstrong, J. Danso, **S. McNeill**, and J. Campbell. 2019. Moisture content, insect pest infestation and mycotoxin levels in markets in Northern Region of Ghana. *J. Stored Prod. Res.*80:10-20. IF=2.123.
  15. Dvorak, J.S., J.M. Shockley, R. Mason and **S.G. McNeill**. 2018. Modelling the costs associated with high-moisture grain for mobile apps. *Computers and Electronics in Ag.* doi:10.1016/j.compag.2018.06.038
  16. Akowuah, J.O., D. Maier, G. Opit, **S. McNeill**, P. Armstrong, C. Campabadal, K. Ambrose and G. Obeng-Akrofi . 2018. Drying temperature effect on kernel damage and viability of maize dried in a solar biomass dryer. *Open J. of Applied Sci.* Vol. 8, No. 11. doi: 10.4236/ojapps.2018.811041
  17. Petingco, M.C., M.E. Casada, R.G. Maghirang, S.A. Thompson, **S.G. McNeill**, M.D. Montross and A.P. Turner. 2018. Influence of kernel shape and size on packing ratio and compressibility of hard red winter wheat. *Transactions of the ASABE.* 61(4): 1437-1448. doi:10.13031/trans.12648
  18. Bhadra, R., M.E. Casada, A.P. Turner, M.D. Montross, S.A. Thompson, **S.G. McNeill**, R.G. Maghirang and J.M. Boac. 2018. Stored grain pack factor measurements for soybeans, grain sorghum, oats, barley and wheat. *Transactions of the ASABE.* 61(4): 747-757. doi:10.13031/trans.12645
  19. Danso, J.K., E.A., Osekre, G.P. Opit, N. Manu, P. Armstrong, F.H. Arthur, J.F. Campbell, G. Mbata and **S. G. McNeill**. 2018. Post-harvest insect infestation and mycotoxin levels in maize markets in the middle belt of Ghana. *Journal of Stored Products Research.* 77: 9-15.
  20. Shockley, J.M., J.S. Dvorak, R. Mason and **S.G. McNeill**. 2018. The process and lessons learned from developing a farm management mobile app – A case study of grain transportation. *Journal of Farm Managers and Rural Appraisers.* (1): 68-69.
  21. Armstrong, P.A., E.A. Maghirang, B. Subramanyam and **S.G. McNeill**. 2017. Equilibrium moisture content of kabuli chickpea, black sesame and white sesame seeds. *Applied Engr. in Agric.* 33(5): 737-742. doi: 10.13031/2013.25260
  22. Armstrong, P.A., **S.G. McNeill**, N. Manu, A. Bosomtwe, J. Danso, E. Osekre and G. Opit. 2017. Development and evaluation of a low-cost probe-type instrument to measure equilibrium moisture content of grain. *Applied Engr. in Agric.* 33(5): 619-627. doi: 10.13031/aea.12266
  23. Turner, A.P., J.J. Jackson, N.K. Koeninger, **S.G. McNeill**, M.D. Montross, M.E. Casada, J.M. Boac, R. Bhadra, R.G. Maghirang and S.A. Thompson. 2017. Stored grain volume measurement using a low-density point cloud. *Applied Engr. in Agric.* 33(1): 105-112. doi: 10.13031/aea.11870
  24. Bhadra, R., M.E. Casada, S.A. Thompson, J.M. Boac, R.G. Maghirang, M.D. Montross, A.P. Turner and **S.G. McNeill**. 2017. Field observed angles of repose for stored grain in the United States. *Applied Engr. in Agric.* 33(1): 131-137. doi: 10.13031/aea.11894
  25. Turner, A.P., M.D. Montross, J.J. Jackson, **S.G. McNeill**, M.E. Casada, J.M. Boac, R. Bhaddra, R.G. Maghirang and S.A. Thompson. 2016. Error analysis of stored grain inventory determination. *Transactions of the ASABE* 59(3): 1061-1072.

26. Turner, A.P., M.D. Montross, J.J. Jackson, **S.G. McNeill**, M.E. Casada, J.M. Boac, R. Bhaddra, R.G. Maghirang and S.A. Thompson. 2016. Modeling the compressibility behavior of hard red winter wheat varieties. *Transactions of the ASABE* 59(3): 1029-1038.
27. Bhadra, R., M.E. Casada, J.M. Boac, A.P. Turner, S.A. Thompson, M.D. Montross, R.G. Maghirang and **S.G. McNeill**. 2016. Correlating bulk density (with dockage) and test weight (without dockage) for wheat samples. *Applied Engr. in Agric.* 32(6): 925-930. doi: 10.13031/aea.11692
28. Bhadra, R., A.P. Turner, M.E. Casada, M.D. Montross, S.A. Thompson, J.M. Boac, **S.G. McNeill** and R.G. Maghirang. 2015. Pack factor measurements for corn in grain storage bins. *Transactions of ASABE.* 58(4): 1089-1101. doi: 10.13031/trans.58.10898
29. Boac, J.M., R. Bhadra, M.E. Casada, S.A. Thompson, A.P. Turner, M.D. Montross, **S.G. McNeill** and R.G. Maghirang. 2015. Stored grain pack factors for wheat: Comparison of three methods to field measurements. *Transactions of ASABE.* 58(3): 897-890. doi: 10.13031/trans.58.11033
30. **McNeill, S.G.**, M.D. Montross, S.A. Thompson, I. J. Ross and T.C. Bridges. 2008. Technical note: Packing factors of feed products in storage structures. *Applied Engr. in Agric.* 24(5):625-630. doi: 10.13031/2013.25260
31. Prewitt, R.M., M.D. Montross, **S.G. McNeill**, T.S. Stombaugh, S.A. Shearer and S. Sokhansang. 2007. Corn stover availability and collection efficiency using typical hay equipment. *Transactions of ASABE.* 50(3):705-711. doi: 10.13031/2013.23124
32. **McNeill, S.G.**, M.D. Montross, and S.A. Shearer. 2005. Spatial variation of protein, oil, and starch in yellow corn. *Applied Engr. in Agric.* 21(4):619-625. doi: 10.13031/2013.18550
33. Montross, M.D. and **S.G. McNeill**. 2005. Permeability of corn, soybeans, and soft red and white wheat as affected by bulk density. *Applied Engr. Ag.* 21(3): 479-484. doi: 10.13031/2013.17903
34. Bridges, T.C., M.D. Montross, and **S.G. McNeill**. 2005. Aeration strategies and fan cost comparisons for wheat in mid-South production regions. *Applied Engr. in Agric.* 21(1):115-124. doi: 10.13031/2013.18444
35. Molenda, M. M.D. Montross, J. Horabik, and **S.G. McNeill**. 2005. Airflow resistance of seeds at different bulk densities using Ergun's equation. *Transactions of ASABE.* 48(3):1137-1145. doi: 10.13031/2013.18487
36. **McNeill, S.G.**, S.A. Thompson and M.D. Montross. 2004. Effect of moisture content and broken kernels on the bulk density and packing of corn. *Applied Engr. in Agric.* 20(4): 475-480.
37. **McNeill, S.G.**, Z.A. Henry, L.R. Wilhelm and L.R. Walton. 2001. Delayed harvest effects on moisture sorption properties of soybeans. *Applied Engr. in Agric.* 17(3):329-340. doi: 10.13031/2013.6200
38. Shearer, S.A., Thomasson, J.A., and **S.G. McNeill**. 1996. Filter selection for NIR sensing of plant and soil materials. *Transactions of the ASABE.* 39(3):1209-1214. doi: 10.13031/2013.27614
39. Wurts, W.A, **S.G. McNeill**, and D.G. Overhults. 1994. Performance and design characteristics of air lift pumps for field applications. *Word Aquaculture.* 25(4):51-54.
40. Overhults, D.G., W.C. Maksymowicz, and **S.G. McNeill**. 1991. Finishing dark-fired tobacco with a mechanical smoke generator. *Tobacco Abstracts.*
41. Thompson, S.A., **S.G. McNeill**, I.J. Ross, and T.C. Bridges. 1990. Computer model for predicting the packing of whole grains in flat storage. *Applied Engr. in Agric.* 6(4):465-470. doi: 10.13031/2013.26415

42. Bridges, T.C., D.G. Overhults, **S.G. McNeill**, and G.M.White. 1988. An aeration duct design for flat grain storage. Transactions of the ASABE. 31(4):1283-1288. doi: 10.13031/2013.30858
43. Thompson, S.A., **S.G. McNeill**, I.J. Ross, and T.C. Bridges. 1987. Packing factors of whole grains in storage structures. Applied Engr. Agric. 3(2): 215-221. doi: 10.13031/2013.26677
44. White, G.M., T.C. Bridges, **S.G. McNeill** and D.G. Overhults. 1985. Equilibrium moisture properties of corncobs. Transactions of the ASABE. 28(1): 280-285.
45. Loewer, O.J., **S.G. McNeill**, I.J. Ross and R.J. Matar. 1984. The economic feasibility of using crop residue to dry corn. Drying Tech. 2(4): 551-562.
46. Fehr, R.L., K.T. Priddy, **S.G. McNeill**, and D.G. Overhults. 1983. Limiting swine stress with evaporative cooling in the Southeast. Transactions of the ASABE. 26(2): 542-545. doi: 10.13031/2013.34182
47. **McNeill S.G.**, R.L. Fehr, J.N. Walker and G.R. Parker. 1983. Performance of evaporative cooling for mid-South gestation housing. Transactions of the ASABE. 26(1): 219-222. doi: 10.13031/2013.33907
48. Walton, L.R., W.H. Henson, **S.G. McNeill**, and J.M. Bunn. 1980. A solar energy system for curing burley tobacco. Transactions of the ASABE. 23(1): 192-196. doi: 10.13031/2013.34552
49. Walton, L.R., W.H. Henson, **S.G. McNeill**, and J.M. Bunn. 1979. Storing solar energy in an underground rock bed. Transactions of the ASABE. 22(5): 1202-1207. doi: 10.13031/2013.35184
50. Walton, L.R., W.H. Henson, Jr., **S.G. McNeill** and J.M. Bunn. 1978. Solar field curing of burley tobacco. Tobacco Science. 22: 3-5.
51. Walton, L.R., W.H. Henson, Jr., **S.G. McNeill**, B.F. Parker, and J.M. Bunn. 1978. Solar curing facilities for burley tobacco. Transactions of the ASAE. 22(4): 762-772.
52. Walton, L.R., **S.G. McNeill**, G.A. Duncan, J.E. Morrison, Jr. and J.N. Walker. 1977. Compressibility of baled burley tobacco. Tobacco Science. 21: 69-71.

#### CONFERENCE PRESENTATIONS:

1. Bababode, A.K., M.D. Montross and **S.G. McNeill**. 2022. Effect of storage conditions on the  $\beta$ -glucan content and germination potential of different SRW wheat varieties. Paper No. 2200121. ASABE Annual International Meeting (AIM). Jul. 17-20. Houston, TX.
2. Obeng-Akrofi, G., K.A. Armah, J.O. Akowuah and **S.G. McNeill**. 2022. Thin layer mathematical modeling and performance assessment of a solar bubble dryer for white maize. Paper No. 2201055. ASABE Annual International Meeting (AIM). Jul. 17-20. Houston, TX.
3. Bababode, A.K., M.D. Montross and **S.G. McNeill**. 2021. Effect of hermetic storage on the  $\alpha$ -amylase content and antioxidant activity of SRW wheat. 3<sup>rd</sup> All Africa Post Harvest Conference (Hybrid). Addis Ababa, Ethiopia. Sep 17-20.
4. Omodara, M., M. Montross and **S. McNeill**. 2021. Simulation of the temperature distribution in bagged corn stored in a naturally ventilated warehouse. Presented at the virtual ASABE Annual International Meeting (AIM). Jul. 18-21.
5. Omodara, M., M. Montross, **S. McNeill**, M. Sama and D. Carr. 2019. Development of a monitoring system to access the internal environment of bagged grain in storage. 2<sup>nd</sup> All Africa Post Harvest Conference. Addis Ababa, Ethiopia. Sep 17-20.
6. Omobowale, M., O. Kolayemi, J. Ogwumike, A. Olenloa, A. Ala, G. Busari, J. Braimah, S. Ajao,

- G. Otitodun, S. Nwaubani, K. Ileleji, **S. McNeill** and G. Opit. 2019. Macro- and micro-climate influence on maize quality and insect pest management strategies in small market warehouses in Nigeria. 2<sup>nd</sup> All Africa Post Harvest Conference. Addis Ababa, Ethiopia. Sep 17-20.
7. Ileleji, K., M. Bamakole, N. Odiaka, F. David-Abraham, F. Oroka, O. Ocheme, A. Muhammad, J. Alabi, L. Bamaiyi, G. Otitodun, A. Ala, **S. McNeill**, G. Opit and S. Nwaubani. 2019. Solar drying of crops using the Deyhtray™–Field studies in Nigeria. 2<sup>nd</sup> All Africa Post Harvest Conference. Addis Ababa, Ethiopia. Sep 17-20.
  8. **McNeill, S.G.**, A. P. Turner, D.G. Overhults and M.D. Montross. 2019. A summary of energy audits for grain dryers in Kentucky. ASABE AIM Paper No. 1901792. Jul. 7-10. Boston, MA.
  9. Overhults, D.G., M.A. Hagan, **S.G. McNeill** and M.D. Montross. 2019. Energy efficiency improvements on Kentucky dairy and poultry farms. ASABE AIM Paper No. 1901313. Jul. 7-10. Boston, MA.
  10. Omodara, M., M. Montross, **S. McNeill**, M. Sama and D. Carr. 2019. Development of a monitoring system to access the internal environment of bagged grain. ASABE AIM Poster No. 1900231. Jul. 7-10. Boston, MA.
  11. Obeng-Akrofi, G., J.O. Akowuah, A. Addo, D.E. Maier and **S.G. McNeill**. 2019. Application of the Analytic Hierarchy Process (AHP) in the selection of an appropriate biomass burner heat source for drying maize in a crossflow column dryer. Poster No. 1901800. ASABE Annual International Meeting (AIM). Jul. 7-10. Boston, MA.
  12. Akowuah, J.O., D. Maier, G. Opit, P. Armstrong, C. Campabadal, K. Ambrose, G. Obeng-Akrofi and **S. McNeill**. 2019. Modeling the drying kinetics of maize in a solar biomass hybrid dryer. ASABE AIM Paper No. 1901795. Jul. 7-10. Boston, MA.
  13. Danso, J.K., E.A. Osekre, G.P. Opit, N. Manu, P.R. Armstrong, F.H. Arthur, J.F. Campbell, G.N. Mbata and **S.G. McNeill**. 2018. Insect pests and fungal pathogens in maize stored in Ghana. 12<sup>th</sup> International Working Conference on Stored Product Protection (IWCSPP). Berlin, DE.
  14. Armstrong, P.R., **S.G. McNeill**, B. Subramanyam, J.O. Akowuah, J.K. Danso, N. Manu, E.A. Osekre, G.P. Opit, F.H. Arthur and J.F. Campbell. 2018. Low-cost instrument to measure equilibrium moisture content of bagged and bulked grain. 12<sup>th</sup> International Working Conference on Stored Product Protection (IWCSPP). Berlin, DE.
  15. Akowuah, J.O., D.E. Maier, G.P. Opit, **S.G. McNeill**, P.R. Armstrong, C.A. Campabadal and K. Ambrose. 2018. Performance assessment of a commercial scale solar biomass hybrid dryer for quality maize production. 12<sup>th</sup> International Working Conference on Stored Product Protection (IWCSPP). Berlin, DE.
  16. Otitodun, G., A. Ala, S. Nwaubani, M. Omobowale, M. Ogundare, G. Abel, K. Ajao, J. Braimah, A. Olenloa, O. Kolayemi J. Ogwumike, G. Opit, K. Ileleji and **S. McNeill**. 2018. Evaluation of five storage technologies to preserve quality composition of maize in Nigerian markets. 12<sup>th</sup> International Working Conference on Stored Product Protection (IWCSPP). Berlin, DE.
  17. Danso, J.K., N. Manu, E.A. Osekre, G.P. Opit, P.R. Armstrong, F.H. Arthur, J.F. Campbell, G.N. Mbata and **S.G. McNeill**. 2018. On-farm maize insect pest and mycotoxin levels in Ghana. 12<sup>th</sup> International Working Conference on Stored Product Protection (IWCSPP). Berlin, DE.
  18. Petingco, M. R. Bhadra, M. Casada, R. Maghirang, M. Montross, S. Thompson, **S. McNeill** and A. Turner. 2017. Influence of kernel shape and size distribution on wheat compaction in storage. Paper No. 1700847 presented at ASABE AIM, Jul. 16-19. Spokane, WA.
  19. **McNeill, S.**, P. Armstrong, M. Omobolaji, G. Otitodun, E. Osekre, K. Ileleji and G. Opit. 2017. Development of a low-cost moisture meter for the grain trade. The 1<sup>st</sup> All Africa Post Harvest

Conference. Mar 28-31. Nairobi, KE.

20. Ileleji, K., G. Opit, **S. McNeill**, M. Omobowale, A. Ala, G. Otitodun, S. Nwaubani, H. Tarver and E. Solorio. 2017. Stored grain protection and management capacity building in Nigeria--Review of 7 years of experience. The 1<sup>st</sup> All Africa Post Harvest Conference. Mar 28-31. Nairobi, KE.
21. Omobowale, M., A. Ala, G. Otitodun, S. Nwaubani, K. Ileleji, **S. McNeill**, G. Opit, A. Olenloa, O. Kolayemi, J. Ogwumike, , J. Braimah, K. Ajao and G. Busari. 2017. Postharvest practices and losses: A case study of six farm settlements in Oyo State, Nigeria. The 1<sup>st</sup> All Africa Post Harvest Conference. Mar 28-31. Nairobi, KE.
22. Nwaubani, S., M. Omobowale, G. Otitodun, Ala, A.A., G. Opit, K. Ileleji, **S. McNeill**, M. Ogundare, G. Igbele, K. Ajao, J. Braimah, J. Olenola, O. Kolayemi and J. Ogwumike. 2017. Insect population dynamics in maize using four storage technologies. The 1<sup>st</sup> All Africa Post Harvest Conference. Mar 28-31. Nairobi, KE.
23. Otitodun, G., A. Ala, M. Omobowale, S. Nwaubani, G. Opit, **S. McNeill**, K. Ileleji, M. Ogundare, J. Braimah, G. Igbele, K. Ajao, G. Busari, O. Akhere, J. Ogwumike and O. Kolayemi. 2017. Quality of stored maize using integrated pest management and traditional practices in Nigerian markets. The 1<sup>st</sup> All Africa Post Harvest Conference. Mar 28-31. Nairobi, KE.
24. **McNeill, S.**, P. Armstrong and E. Osekre. 2015. Assessment of moisture measurement and maize dryers in Ghana. 1<sup>st</sup> International Congress on Postharvest Loss Prevention. Oct. 4-7. Rome, IT.
25. Ileleji, K.E., G.P. Opit, **S.G. McNeill** and H.V. Tarver. 2015. Benefits of training stakeholders across the grain value chain—A capacity building effort in Nigeria. 1<sup>st</sup> International Congress for Postharvest Loss Prevention. Oct. 4-7. Rome, IT.
26. Bhadra, R., J.M. Boac, M.E. Casada, S. Thompson M.D. Montross, **S.G. McNeill** and R. Maghirang. 2014. Field measurements for grain compaction in commercial storage in the U.S. ASABE AIM Paper No. 141899383. Jul. 13-16. Montreal, CN.
27. **McNeill, S.G.**, M.E. Casada, M.D. Montross, S.A. Thompson, R.G. Maghirang, J.M. Boac and R. Bhadra. 2013. New models for describing grain packing. ASABE AIM Paper No. 1620757. Jul. 21-24. Kansas City, MO.
28. Overhults, D.G., M.A. Hagan, **S.G. McNeill** and M.D. Montross. 2013. A summary of farm energy audits in Kentucky. ASABE AIM Paper No. 1620937. Jul. 21-24. Kansas City, MO.
29. Bhadra, R., J.M. Boac, M.E. Casada, S.A. Thompson, **S.G. McNeill**, M.D. Montross and R.G. Maghirang. 2012. Field measurements for stored grains packing factors: corn, oats and soybeans. ASABE AIM Paper 121338199. Jul. 30 - Aug. 1. Dallas, TX.
30. Jackson, J. **S.G. McNeill** and M.D. Montross. 2012. Designing a feedlot operation in Kentucky using ArcGIS and AutoCAD: an extension method. ASABE AIM Paper No. 12062512. Jul. 30 - Aug. 1. Dallas, TX.
31. **McNeill, S.G.**, M.D. Montross, M.E. Casada, S.A. Thompson, R.G. Maghirang, J.M. Boac and R. Bhadra. 2012. Describing grain packing: a new mathematical model. ASABE AIM Paper No. 121338199. Jul. 30 - Aug. 1. Dallas, TX.
32. **McNeill, S.G.**, K. Ileleji and G. Opit. 2011. Reducing post-harvest losses of grains in West Africa. ASABE AIM Paper No. 1111426. Aug. 8-10. Louisville, KY.
33. Boac, J.M., R. Bhadra, M.E. Casada, M.D. Montross, S.A. Thompson, **S.G. McNeill**, R.G. Maghirang and E. Haque. 2011. Stored grain packing factors: field measurements for wheat and corn. ASABE Paper No. 1111426 presented at ASABE AIM, Aug. 8-10. Louisville, KY.
34. Casada, M.R., S.A. Thompson, P.R. Armstrong, **S.G. McNeill**, M.D. Montross, J. Dyck and R.

- Larson. 2011. Loads on monitoring cables during grain bin loading and unloading. ASABE AIM Paper No. 1111655. Aug. 8-10. Louisville, KY.
35. Montross, M.D., W. Adams, L. Mathis, **S.G. McNeill**, M. Sama, S.A. Thompson, J. Boac and M. Casada. 2011. Laboratory data with hard red winter wheat to support new grain packing factors. ASABE AIM Paper No. 1111337, Aug. 8-10. Louisville, KY.
  36. **McNeill, S.G.**, 2010. Spreadsheet tool for grain dryer energy audits. ASABE AIM. Pittsburgh, PA. June 20-23.
  37. **McNeill, S.G.** and M.D. Montross. 2008. Physical properties of distillers dried grains with solubles. ASABE AIM Paper No. 08-5208. Providence, RI. June 29- July 2.
  38. **McNeill, S.G.**, M.D. Montross, S.A. Thompson and M. Casada. 2007. Grain inventory model validation—a lab and field study. ASABE AIM Paper No. 07-6176. Minneapolis, MN. June 17-20.
  39. Bridges, T.C., **S.G. McNeill** and M.D. Montross. 2007. Logistical aspects of corn harvest and drying using class nine combines. ASABE AIM Paper No. 07-6177. Minneapolis, MN. June 17-20.
  40. Day, D.L., **S.G. McNeill** and E.G. Wilkerson. 2007. Assessment of safety in cattle handling facilities on Kentucky farms. ASABE AIM Paper No. 07-5110. Minneapolis, MN. June 17-20.
  41. **McNeill, S.G.**, M.D. Montross, and T.S. Stombaugh. 2006. Developing and demonstrating identity-preserved protocols for grain production in Kentucky. ASABE AIM Paper No. 06-6201. Portland, OR. July 9-12.
  42. Montross, M.D., T.C. Bridges and **S.G. McNeill**. 2006. Feasibility of ground loop systems to provide condition air for summer aeration. ASABE AIM Paper No. 06-6202. Portland, OR. July 9-12.
  43. **McNeill, S.G.** and M.D. Montross. 2005. Drying and storage properties of selected specialty grains. ASABE AIM Paper No. 05-6177. Tampa, FL. July 17-20.
  44. Crofcheck, C., S. Nokes, M.D. Montross and **S.G. McNeill**. 2005. Virtual and Face-to-face tours of ethanol and biodiesel production facilities in Kentucky. ASABE AIM Paper No. 05-7010. Tampa, FL. July 17-20.
  45. **McNeill, S.G.**, M.D. Montross and S.A. Shearer. 2002. Spatial variability of protein, oil and starch on yellow corn. ASAE AIM /CIGR World Congress. July 28-30. Chicago, IL.
  46. **McNeill, S.G.**, M.D. Montross, C.G. Poneleit and S.A. Shearer. 2002. Spatial variability of protein, oil and starch on yellow corn. Annual International Meeting/CIGR World Congress. Paper No. 02-1011. Chicago, IL. July 28-31.
  47. Bridges, T.C., M.D. Montross and **S.G. McNeill**. 2002. Aeration strategies and optimal airflow rates for the mid-south corn and wheat production areas. ASABE AIM /CIGR World Congress Paper No. 02-6079. Chicago, IL. July 28-31.
  48. **McNeill, S.G.**, S.A. Shearer, G.A. Watkins and S.F. Higgins. 2000. No-till drill comparison for wheat stand establishment following corn. ASAE Annual International Meeting Paper No. 00-1003. Milwaukee, WI. July 9-12.
  49. **McNeill, S.G.**, Z.A. Henry, L.R. Wilhelm and L.R. Walton. 1999. Comparison of the diffusion equation with the modified page equation for describing soybean sorption behavior. ASABE AIM/CIGR World Congress Paper No. 99-6019. Toronto, Ontario, CN. July 18-21.
  50. **McNeill, S.G.**, Z.A. Henry, L.R. Wilhelm and L.R. Walton. 1998. Delayed harvest effects on

- moisture sorption properties of soybeans. ASAE AIM Paper No. 98-6031. Orlando, FL. July 12-15.
51. Shearer, S.A., R.I. Barnhisel, **S.G. McNeill**, S.F. Higgins and J.P. Fulton. 1998. Yield monitor and plot harvest comparison. ASAE AIM Paper No. 98-1047. Orlando, FL. July 12-15.
  52. Watkins, G.A., **S.G. McNeill** and S.A. Shearer. 1997. Farmstead groundwater quality monitoring in Kentucky. ASAE AIM Paper No. 97-5073. Minneapolis, MN. Aug. 10-14.
  53. Shearer, S.A., S.F. Higgins, **S.G. McNeill**, G.A. Watkins, R.I. Barnhisel, J.C. Doyle, J.H. Leach and J.P. Fulton. 1997. Data Filtering and Correction Techniques for Generating Yield Maps from Multiple Combine Systems. ASAE AIM Paper No. 97-1034. Minneapolis, MN. Aug. 10-14.
  54. Watkins, G.A., **S.G. McNeill**, S.A. Shearer and T.A. Griffin. 1996. Modification of a commercial chipper/shredder for use in agricultural chemical container recycling. ASAE AIM Paper No. 96-1082. Phoenix, AZ.
  55. Watkins, G.A., **S.G. McNeill**, and S.A. Shearer. 1995. Development of a hands-on demonstration sprayer for applicator education. ASAE AIM Paper No. 95-1566. Chicago, IL.
  56. Watkins, G.A., **S.G. McNeill**, S.A. Shearer and M.C. Dravillis. 1994. Current status of Kentucky applicator attitudes toward pesticide handling and storage. ASAE Winter Meeting Paper No. 94-1595. International Winter Meeting. Atlanta, GA. Dec. 13-16.
  57. **McNeill, S.G.**, S.A. Thompson, Z.A. Henry, I.J. Ross and D.G. Overhults. 1993. Effect of broken kernels on the bulk density and packing of corn. ASAE Winter Meeting Paper No. 93-4505. Chicago, IL.
  58. **McNeill, S.G.**, S.A. Shearer and L.D. Swetnam. 1992. Demonstration spray rig with direct injection chemical metering. ASAE Summer Meeting Paper No. 92-1092. Charlotte, NC. June 21-24.
  59. Shearer, S.A., J.A. Thomasson and **S.G. McNeill**. 1992. A filter selection method for NIR sensor development. ASAE Summer Meeting Paper No. 92-7052. Charlotte, NC. June 21-24.
  60. Overhults, D.G., W.C. Maksymowicz, **S.G. McNeill** and F.A. Payne 1991. Mechanical smoke generator for finishing dark-fired tobacco. ASAE Winter Meeting Paper No. 91-6543. Chicago, IL.
  61. Thompson, S.A., **McNeill, S.G.**, I.J. Ross and T.C. Bridges. 1988. Packing factors of whole grains during unloading. ASAE Summer Meeting Paper No. 88-4020. Rapid City, SD.
  62. **McNeill, S.G.**, S.A. Thompson, I.J. Ross and T.C. Bridges. 1987. Packing factors for meals in storage structures. ASAE Summer Meeting Paper No. 87-4077. Baltimore, MD.
  63. Turner, L.W., C.W. Absher, J.K. Evans and **S.G. McNeill**. 1987. Planning fencing systems for intensive grazing management. ASAE Summer Meeting Paper No. 87-4084. Baltimore, MD.
  64. Bridges, T.C., D.G. Overhults, **McNeill, S.G.** and G.M. White. 1987. Aeration duct design model for flat grain storage. ASAE Winter Meeting Paper No. 87-6546. Chicago, IL.
  65. S.A. Thompson, I.J. Ross, **McNeill, S.G.** and T.C. Bridges. 1987. Packing factors of whole grains in flat storage structures. ASAE Winter Meeting Paper No. 87-4526. Chicago, IL.
  66. Thompson, S.A., **S.G. McNeill**, I.J. Ross and T.C. Bridges. 1986. Packing factors of whole grains in storage structures. ASAE Winter Meeting Paper No. 86-6568. Chicago, IL.
  67. **McNeill, S.G.**, D.G. Overhults, G.M. White and I.J. Ross. 1985. Thin layer drying characteristics of corn cobs. ASAE Winter Meeting Paper No. 85-3565. Chicago, IL.

68. Loewer, O.J., G.M. White, T.C. Bridges, I.J. Ross and **S.G. McNeill**. 1984. Comparison between current dockage methods and the standardized bushel concept of marketing. ASAE Winter Meeting Paper No. 84-3518. New Orleans, LA.
69. **McNeill, S.G.**, D.G. Overhults, G.L. Cromwell and A.H. Cantor. 1984. Response of swine and poultry to corn dried with biomass. ASAE Summer Meeting Paper No. 84-3017. Knoxville, TN.
70. White, G.M., T.C. Bridges, **S.G. McNeill** and D.G. Overhults. 1984. Equilibrium moisture properties of corncobs. ASAE Summer Meeting Paper No. 84-3044. Knoxville, TN.
71. Fehr, R.L., K.T. Priddy, **S.G. McNeill** and D.G. Overhults. 1983. Limiting swine stress with evaporative cooling in the southeast. ASAE Winter Meeting Paper No. 83-4518. Chicago, IL.
72. Smith, T.D., **S.G. McNeill**, L.G. Wells and G.B. Day. 1983. Harvesting corn cobs for bio-fuel. ASAE Summer Meeting Paper No. 83-3067. Bozeman, MT.
73. **McNeill, S.G.**, R.L. Fehr, J.N. Walker and G.R. Parker. 1980. Performance of evaporative coolers for mid-south gestation housing. ASAE Winter Meeting Paper No. 80-4558. Chicago, IL.
74. Fehr, R.L., G.R. Parker, **S.G. McNeill** and D.L. Liptrap. 1979. Labor efficiency in swine breeding facilities. ASAE Winter Meeting Paper No. 79-4569. New Orleans, LA.
75. Walton, L.R., W.H. Henson, Jr., **S.G. McNeill** and J.M. Bunn. 1978. A solar energy system for curing burley tobacco. ASAE Winter Meeting Paper No. 78-3034. Chicago, IL.
76. Walton, L.R., W.H. Henson, Jr., **S.G. McNeill** and J.M. Bunn. 1978. Storing solar energy in an underground rock bed. ASAE Summer Meeting Paper No. 78-4045. Logan, UT.
77. Walton, L.R., W.H. Henson, Jr., **S.G. McNeill**, B.F. Parker and J.M. Bunn. 1977. Solar curing facilities for burley tobacco. ASAE Summer Meeting Paper No. 77-3002. Raleigh, NC.

## **GRADUATE STUDENT COMMITTEES:**

1. Kehinde A. Bababode. UK-BAE Ph.D. candidate. Anticipate graduation in Aug. 2023. Co-Chair.
2. Nolan R. Anderson. UK-Plant Pathology. PhD. Dec. 10, 2022. Dissertation title: An improved understanding of diplodia ear rot in Kentucky corn. Outside reviewer.
3. Michael A. Omodara. UK-BAE Ph.D. student. Dec. 12, 2020. Dissertation title: Ecosystem of bagged grain stored under naturally ventilated warehouse: Analysis and modelling. Co-Chair.
4. Francis A. Agbali. UK-BAE M.S. student. Aug. 10, 2019. Thesis title: Design and testing of a wind energy harnessing system for forced convective aeration of grain in low wind speed, warm and humid climates. Member.
5. Arron P. Turner. UK-BAE Ph.D. student. Dec. 8, 2018. Dissertation title: Decision support system for capacity planning from grain harvest to storage. Member.
6. Joshua J. Jackson. UK-BAE Ph.D. student. Aug. 16, 2015. Dissertation title: Optimal uses of biomass resources in distributed applications. Member.
7. Michael A. Hagan. UK-BAE M.S. student. May 10, 2015. Thesis title: Life cycle analysis of biomass harvesting. Member.
8. David L. Day. UK-Allied Health M.S. student. May 2006. Thesis title: Assessment of safety in cattle handling facilities on Kentucky farms. Member.

## EXTENSION

### EXTENSION PUBLICATIONS:

1. Buschermohle, M.A., **S.G. McNeill**. 2023. Harvesting, drying, handling and storing soybeans. *In: Tennessee Soybean Production Handbook*. UT pub. PB-1912-J. (*In press*).
2. **McNeill, S.**, M. Montross and T. Stombaugh. 2022. Corn harvesting, drying and storage *In: A comprehensive guide to corn management in Kentucky*. University of Kentucky Cooperative Extension Service Publication ID-139.
3. Knott, C. A., C. Bradley, J.H. Grove, C.D. Lee, T.R. Legleiter, **S.G. McNeill**, E.L. Ritchey, R.T. Villanueva, and K. Wise. 2021. Grain Production at a Glance. University of Kentucky Cooperative Extension Service Publication ID-268.
4. Knott, C. A., C. Bradley, J.H. Grove, C.D. Lee, T.R. Legleiter, **S.G. McNeill**, E.L. Ritchey, R.T. Villanueva, and K. Wise. 2021. Grain Production at a Glance (Poster). University of Kentucky Cooperative Extension Service Publication ID-268P.
5. **McNeill, S.** 2018. Harvesting, drying and storage *In: Soybean management in Kentucky*. University of Kentucky Cooperative Extension Service Publication ID-249.
6. **McNeill, S.** 2017. Storage: *In: Grain Handling, Drying and Storage Handbook*. MWPS-13.
7. **McNeill, S.G.** 2016. Harvesting: *In: Grain Sorghum Production in Kentucky*. University of Kentucky Cooperative Extension Service Publication ID-234. (Minor revision).
8. Dvorak, J., **S. McNeill** and C. Hardy. 2016. Wet grain delivery advice: A previously impossible extension challenge solved through apps. *Journal of Extension* [On-line]. 54 (2). Article 2IAW1. Available at <https://joe.org/joe/2016april/iw1.php>
9. **McNeill, S.G.** and M.D. Montross. 2015. Harvesting, Drying and Storing Organic Corn *In: Organic Corn Production in Kentucky*. UK CES Publication ID-225. pp 19-24.
10. Walters, C., **S. McNeill** and D. Johnson. 2012. Benefits and costs associated with the wheat storage hedge. UK Extension Pub. ID-198.
11. Opit, G., **S. McNeill** and K. Ileleji. 2011. Fumigate well and safely. OKSU Extension Publication L-349. (new poster).
12. Opit, G., **S. McNeill** and K. Ileleji. 2011. Protecting stored grain with proper fumigation. OKSU Extension Publication L-350. (new brochure).
13. Opit, G., **S. McNeill** and K. Ileleji. 2011. Use IPM when storing grain. OKSU Extension Publication L-351. (new poster).
14. Opit, G., **S. McNeill** and K. Ileleji. 2011. Protecting stored grain with IPM to reduce post-harvest grain losses. OKSU Extension Publication L-352. (new brochure).
15. Ileleji, K., **S. McNeill** and G. Opit. 2011. Use D.I.C.E. to reduce aflatoxins, improve grain quality and increase profits. Purdue Extension Publication ABE-130. (new poster).
16. Ileleji, K., **S. McNeill** and G. Opit. 2011. Protecting stored grain with D.I.C.E. post-harvest grain management system. Purdue Extension Publication ABE-131. (new brochure).
17. **McNeill, S.G.**, D.G. Overhults and M.D. Montross. 2009. Harvesting, drying and storing wheat *in: A comprehensive guide to wheat management in Kentucky*. University of Kentucky Cooperative Extension Service Bulletin ID-125. (minor revision).

18. Stombaugh, T., S. Shearer, J. Wilhoit and **S. McNeill**. 2008. Saving fuel in the field. University of Kentucky Cooperative Extension Service Bulletin AEN-94. (new).
19. Stombaugh, T., S. Shearer, J. Wilhoit and **S. McNeill**. 2008. Proper ballast and tire inflation. University of Kentucky Cooperative Extension Service Bulletin AEN-93. (new).
20. **McNeill, S.G.** and M.D. Montross. 2003. Harvesting, Drying and Storing Grain Sorghum. University of Kentucky Cooperative Extension Service AEN-17. (minor revision)
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#### **HONORS AND AWARDS (SINCE 1997):**

- **McNeill, S.** 2024. M.D. Whiteker Award for Excellence in Extension. Kentucky Association of State Extension Specialists Annual Meeting. Frankfort, KY. April 17.
- **McNeill, S.** 2023. Outstanding reviewer for Processing Systems Technical Community. American Society of Agricultural & Biological Engineers. Annual International Meeting. Omaha, NB. July 17.
- **McNeill, S.** 2023. The Andersons Cereals and Oilseeds Award of Excellence. NC-213 Annual Meeting. Purdue University. March 15.
- **McNeill, S.** 2022. Outstanding reviewer for Processing Systems Technical Community. American Society of Agricultural & Biological Engineers. Annual International Meeting. Houston TX. July 18.
- Wethington Award. University of Kentucky. 2006, 2010, 2011, 2012, 2013, 2014, 2017, 2018, 2019, 2020, 2021, and 2023.
- **McNeill, S.** 2019. Service Award (40 years). UK Cooperative Extension Service.
- Maier, D., **S. McNeill**, K. Hellevang, K. Ambrose, K. Ileleji, C. Jones and M. Purschwitz. “Grain Handling, Drying, and Storage. 2018. (MWPS-13; major revision). Blue Ribbon Award for Comprehensive Publication. ASABE Annual International Meeting. Detroit, MI. July 16.
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- Ileleji, K., **S. McNeill** and G. Opit. 2015. Technical assistance/training program on commodity protection and stored grain management in Nigeria. American Society of Agricultural & Biological Engineers—Blue Ribbon Award for Extension Methods.
- Outstanding Extension Specialist Award, 2014. Kentucky Association of County Ag Agents.
- **McNeill, S.** Service Award (35 years). 2014. UK Cooperative Extension Service.
- American Society of Agronomy. 2009. Publications Award: A comprehensive guide to wheat management in Kentucky. UK Cooperative Extension Service Bulletin ID-125.
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- Outstanding Program Award as member of UK Wheat Science Group. 2006. KASEP.
- **McNeill, S.** Service Award (25 years). 2004. UK Cooperative Extension Service.
- American Society of Agricultural Engineers—Blue Ribbon Award for Extension Methods. 2003. PowerPoint Slide Set “S.L.A.M.—An integrated approach to maintain stored grain quality.”
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2. **McNeill, S.** 2022. Calculator for stored grain capacity, bin sub-floor volume and wall and grain surface areas. Kentucky Pest News. Sep. 6. <https://kentuckypestnews.wordpress.com/2022/09/>
3. **McNeill, S.** 2022. Tips for drying and storing wheat. Kentucky Pest News. May 31. <https://kentuckypestnews.wordpress.com/2022/05/>
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5. **McNeill, S.** 2021. Consider drying remaining corn crop. UK CAFE News. Oct. 7. <https://news.ca.uky.edu/article/consider-drying-remaining-corn-crop>
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4. **McNeill, S.** 2016. Update on the revision of MWPS grain drying, handling and storage handbook. FPE-702 Committee Meeting at ASABE AIM. Jul. 19. Orlando, FL.
5. **McNeill, S.G.**, M.E. Casada, M.D. Montross, S.A. Thompson, R.G. Maghirang, J.M. Boac and R. Bhadra. 2016. New models for describing grain packing. NC-213 Annual Meeting. Austin, TX. Mar. 1.
6. **McNeill, S.** 2014. Post-harvest grain calculators and decision tools. Kentuckiana Grain meeting. Evansville, IN. Dec. 2.
7. **McNeill, S.** 2014. Costs of drying corn vs harvest losses. UT No-till Field Day, Milan, TN. Jul 24.
8. **McNeill, S.** 2014. How energy costs impact corn harvest decisions. Family Farms Conference. San Antonio, TX. Jan. 23.
9. **McNeill, S.** 2014. Update on the revision of MWPS grain drying, handling and storage handbook. FPE-702 Committee Meeting at ASABE AIM. Jul. 16. Montreal, CN.
10. **McNeill, S.** 2013. Why Dry Grain? A cost comparison of corn harvest losses and drying costs. Farm Progress Show (Ten 20 min lectures in three days). Aug. 27-29.
11. Colliver, D. and **S. McNeill**. 2013. Energy audit for a commercial grain elevator. Grain Elevators and Processors Society. Louisville, KY. Feb 26.
12. **McNeill, S.** 2012. On-farm grain drying energy efficiency. NCCC-9 webinar. Sep. 12.
13. **McNeill, S. G.** 2010. Grain drying and storage systems. Farm Energy Efficiency Seminar. Petersburg, VA. Sept. 1.
14. Sama, M.P., P. Needham, D.E. Hershman, T.S. Stombaugh and **S.G. McNeill**. 2005. An analysis of sprayer droplets using Matlab®. National Soybean Rust Symposium. Nashville, TN. Nov. 14-16.

15. Patrick, C.R., D.W. Johnson, **McNeill, S.G.** and M.J. Buschermohle. 2002. Storing grain in the upper South: a combined program in Tennessee and Kentucky. ESA Annual Meeting, Nov. 18-19. Ft. Lauderdale, FL.
16. Maier, D. and **S. McNeill**. Aeration design for stored grain facilities. (Software facilitator). 2002. Sixth National IPM Stored Grain Training Conference, USDA Grain Lab. Aug. 20. Manhattan, KS.
17. Hellevang, K. and **S. McNeill**. 2002. Temperature control for insects in stored grain. Sixth National IPM Stored Grain Training Conference, USDA Grain Lab. Aug. 19. Manhattan, KS.
18. **McNeill, S.** Maintaining grain quality during storage. 2002. UT No-till Field Day, Jul. 25. Milan, TN.
19. **McNeill, S.** 2001. Maintaining grain quality during storage. UT No-Till Field Day, Milan, TN. Jul. 26.
20. **McNeill, S.G.**, S.A. Shearer, G.A. Watkins and S.F. Higgins. 1999. No-till Drill Performance Assessment for Wheat Stand Establishment Following Corn. Poster presentation at the National Wheat Grower's Association Annual Meeting, Nashville, TN. Feb. 4-6.
21. Harner, J. and **S. McNeill**. 1998. Moisture control for insects in stored grain. Aug. 20. Fifth National IPM Stored Grain Training Conference. Purdue Stored Grain Research Center, West Lafayette, IN.
22. Wurts, W.A., **S.G. McNeill** and D.G. Overhults. 1992. Performance characteristics of air lift pumps in the field. National Extension Aquaculture Workshop, Little Rock, AR.
23. Overhults, D.G., W.C. Maksymowicz and **S.G. McNeill**. 1991. Finishing dark-fired tobacco with a mechanical smoke generator. Slide presentation at the 34<sup>th</sup> Tobacco Worker's Conference, Raleigh, NC.
24. Wurts, W.A., **S.G. McNeill** and D.G. Overhults. 1990. Field evaluation of airlift de-stratifier pumping performance. Annual International Meeting of the World Aquaculture Society, Halifax, N.S.
25. **McNeill, S.G.**, D.G. Overhults, G.M. White and I.J. Ross. 1986. Drying characteristics of whole and broken corn cobs. 6<sup>th</sup> Annual Solar, Biomass and Wind Energy Workshop. pp. 105-110. USDA Southern Agricultural Energy Center, Tifton, GA.
26. **McNeill, S.G.** and D.G. Overhults. 1984. Response of swine and poultry to corn dried with biomass. Proceedings of the Solar and Biomass Workshop. pp. 112-115. USDA Southern Agricultural Energy Center, Tifton, GA.
27. **McNeill, S.G.** and D.G. Overhults. 1983. Using corn cobs for drying grain on the farm. Proceedings of the Solar and Biomass Workshop. pp. 258-261. USDA Southern Agricultural Energy Center, Tifton, GA.
28. **McNeill, S.G.**, I.J. Ross and G.M. White. 1980. Drying characteristics of formed poultry excreta in a deep-bed continuous drying system. In: Livestock Waste: A Renewable Resource. Proceedings of the 4<sup>th</sup> International Symposium on Livestock Wastes. pp. 38-41, 51. ASAE, St. Joseph, MI.
29. Walton, L.R., **S.G. McNeill**, G.A. Duncan, J.E. Morrison, Jr. and J.N. Walker. 1977. Curing burley tobacco with solar energy. Solar Crop Drying Conference Proceedings. p. 107-116. NC State University, Raleigh, NC.

### State, Regional and County Presentations

1. **McNeill, S.** 2016. Reducing post-harvest losses of grains in West Africa. UK BAE Senior Seminar Series. Lexington, KY. Nov. 7.
2. **McNeill, S.** 2016. Value and measurement of harvest losses for corn and soybeans. ANR training. Lexington, KY. Oct. 18.
3. **McNeill, S.** 2016. Drying grain efficiently. CES producer meeting. Monticello, KY. Oct. 17.
4. **McNeill, S.** 2016. BAE Energy Audit Update. CES meeting. Bowling Green, KY. Mar. 31.
5. **McNeill, S.** 2016. Grain storage technologies, CES producer meeting. McLean Co. Feb. 24.
6. **McNeill, S.** 2016. Operating grain dryers for high quality markets. Azteca producer meeting. (Vincennes, IN. Feb. 15, Carmi, IL. Feb. 16, Henderson, KY. Feb. 17, and Evansville, IN. Feb. 18).
7. **McNeill, S., P. Armstrong, G. Opit, E. Osekre, I. Addo, A. Sanghi, K. Ileleji and K. Adu-Gyamfi.** 2015. Assessment of grain moisture measurements and solar dryers. 88th National FFA Convention. Louisville, KY. Oct. 29.
8. **McNeill, S., P. Armstrong, G. Opit, E. Osekre, N. Manu, J. Danso, I. Addo, A. Sanghi, K. Adu-Gyamfi and E. Nsiah.** 2015. Assessment of grain moisture measurements and solar dryers in Ghana. First UKCAFE Intercultural Day. Lexington, KY. Oct. 14.
9. **McNeill, S.** 2015. Grain hauling app development. ANR update. Princeton, KY. Dec. 8.
10. **McNeill, S.** 2015. On-farm grain drying and storage update to UK Extension administrators. Lexington, KY. Nov. 24.
11. **McNeill, S.** 2015. On-farm grain storage systems. New ANR training. Oct. 26 and Nov. 9 Princeton, KY.
12. **McNeill, S.** 2015. Measuring harvest losses. New ANR training. Princeton, KY. Sep. 18.
13. **McNeill, S.** 2015. Reducing post-harvest losses in Africa. Paducah Rotary Club. Jul. 22.
14. **McNeill, S.** 2015. Grain drying and storage update. GSI customer appreciation day. Midwest Ag Systems Conference Room. Rockport, IN. Mar. 17.
15. **McNeill, S.** 2014. Corn drying and storage systems in Ghana and Nigeria. UK Senior Seminar Class. Lexington, KY. Oct. 22.
16. **McNeill, S.** 2014. Reducing post-harvest losses of grains in West Africa. KSU Graduate Seminar Series. Manhattan, KS. Nov. 14.
17. **McNeill, S.** 2014. Grain drying and storage -- Adair, Rowan and Lewis Cos. Aug. & Sep.
18. **McNeill, S.** 2014. Grain drying and storage -- ANR update series via Lync. Jul. 29.
19. **McNeill, S.** 2013. Energy costs for irrigating row crops. Regional meeting. Mayfield, KY. Feb. 6.
20. **McNeill, S.** 2013. Keeping the bin bursting crop in good condition. UK Early Bird Series. Morganfield, Sedalia and Hopkinsville, KY. Nov. 18-20.
21. **McNeill, S.** 2013. Energy audits for grain dryers and irrigation pumping plants. Statewide meeting of NRCS agents. Hopkinsville, KY. Oct. 22.
22. **McNeill, S.** 2012. Post-harvest grain calculators and decision tools. ANR update --Western KY Region. Oct. 24.
23. **McNeill, S. and P. Vincelli.** 2012. Dealing with the 2012 corn crop ANR update via Lync

Meeting. Sep. 7 and 10.

24. **McNeill, S.** 2012. Reducing post-harvest losses of grains in West Africa. BAE Seminar Series. Aug. 31.
25. **McNeill, S.** 2011. Reducing post-harvest losses of grains in West Africa. Lecture for IPS 625: Increasing Sustainable Food Production in Sub-Saharan Africa. Sep. 21.
26. Bhadra, R. J. Boac, R. Maghirang, M. Casada, **S. McNeill**, M. Montross and S. Thompson. 2011. Developing new stored grain pack factors with known accuracy for the common grains in trade under a complete range of field conditions: a preliminary report on packing factor of wheat. Report for Inter-Agency Agreement between the Agricultural Research Service (ARS) and the Federal Crop Insurance Corporation (FCIC) of the USDA Risk Management Agency (RMA). April 15.
27. **McNeill, S.** 12/08. Energy update. Farm Biofuels Conference. Henderson and Princeton.
28. **McNeill, S.** 12/08. New spreadsheet tools for grain hauling, drying and storage. CES-ANR Training. Princeton, KY.
29. **McNeill, S.** 11/08. Grain drying and storage options. Early-bird meetings for grain farmers, ANR agents, crop consultants and supply dealers. Sedalia, Hopkinsville and Morganfield, KY.
30. **McNeill, S.** 10/08. Commodity and grain storage update. Producer meeting. Ohio Co.
31. **McNeill, S.** 9/08. Update on alternative energy in agriculture. Training for 4H agents and leaders. Princeton, KY.
32. **McNeill, S.** 9/08. Options for silage and commodity storage. McLean Co.
33. **McNeill, S.** 8/08. Commodity and grain storage update. Producer meeting. Daviess Co.
34. **McNeill, S.** 7/08. 25 x '25 Energy Initiative. Owensboro, KY.
35. Feasible alternative energy choices for KY. 07/19/08. Brescia University. Owensboro, KY.
36. Insect monitoring and control in stored grain. Tennessee Certified Crop Advisors Training. Nashville, TN.
37. **McNeill, S.** 4/08. Careers in Biosystems and Agricultural Engineering. Niagara Elementary. Henderson, KY.
38. **McNeill, S.** 3/08. Alternative energy in agriculture. Maysville, KY.
39. **McNeill, S.** 3/08. Renewable energy update. UKCA Ag Advisory Council. Lexington, KY.
40. **McNeill, S.** 2/08. Grain drying and storage systems. Grain Crops Academy. Princeton, KY.
41. **McNeill, S.** 1/08. Renewable energy update. Eastern Region ANR agents. Lexington, KY.
42. **McNeill, S.** 1/08. Grain drying and storage systems. Grain Crops Academy. Princeton, KY.
43. **McNeill, S.** 1/08. Renewable energy update. Central Region ANR agents. Lexington, KY.
44. **McNeill, S.** 1/08. Grain storage systems/update. Producer meeting. Fulton, KY.
45. **McNeill, S.** 1/08. Commodity and grain storage update. Producer meeting. Caldwell and Crittenden Cos.
46. **McNeill, S.** 1/08. Grain storage systems/update. Producer meeting. Morganfield, KY.
47. **McNeill, S.** 12/07. Energy update. Western Region ANR agents. Hopkinsville, KY.
48. **McNeill, S.** 11/07. Grain drying and storage update. Early-bird meetings for grain farmers, ANR

- agents, crop consultants and supply dealers. Sedalia, Owensboro and Shelbyville, KY.
49. **McNeill, S.** 10/07. Commodity and grain storage update. Producer meeting. Warren Co.
  50. **McNeill, S.** 9/07. Commodity and grain storage update. Producer meeting. Daviess Co.
  51. **McNeill, S.** 8/07. Grain storage update. Producer meeting. Union Co.
  52. **McNeill, S.** 8/07. GPS section control for sprayers and planters. Farm Progress Show. Normal, IL.
  53. **McNeill, S.** 8/07. Energy management for grain drying and storage. Fulton-Hickman RECC. Hickman, KY.
  54. **McNeill, S.** 8/07. Grain storage update. Field Day. Meade Co.
  55. **McNeill, S.** 6/07. Bicycle safety. Farm Safety Day. Princeton, KY.
  56. **McNeill, S.** 6/07. Alternative winter crops in KY. Miles Field Day. Logan Co.
  57. **McNeill, S.** 3/07. Asian Soybean Rust...are you ready if it hits this year? Integrated Resource Management School. Princeton, KY.
  58. **McNeill, S.** 2/07. Grain harvesting, drying and storage. Producer meeting. Taylor Co.
  59. **McNeill, S.** 12/06. Grain handling and storage update. CES-ANR Training. Henderson, Elizabethtown and Princeton, KY.
  60. **McNeill, S.** 8/06. Calibrating grain drills and measuring corn harvest losses. CES-ANR Training. Princeton, KY.
  61. **McNeill, S.** 2006. Grain storage update. Producer meetings. Dixon, Henderson and Hickman, KY.
  62. **McNeill, S.** 5/06. Careers in Agriculture. Youth meeting. Dixon, KY.
  63. Stombaugh, T.S. and **S.G. McNeill.** Precision Ag Update. CES-ANR Training. Princeton, KY.
  64. **McNeill, S.** 11/06. US grain production, storage and marketing system. Russian visitors. Princeton, KY.
  65. **McNeill, S.** 8/06. Beef Corrals that Work. Producer meeting. Hartford, KY.
  66. **McNeill, S.,** G.A. Duncan, S.A. Shearer and T.S. Stombaugh. 07/28/05. "Ready—Set—Spray?" 2005 CA Field Day. Princeton, KY.
  67. **McNeill, S.** 3/05. Converting soybean oil to hydrogen gas—summary report. KY Soybean Promotion Board. Princeton, KY.
  68. **McNeill, S.G.,** M.D. Montross, R. Andrews and S. Van Sickle. 2003. Converting soybean oil to hydrogen or fuel cell development. Research proposal presented to the Kentucky Soybean Promotion Board. Princeton, KY. Mar. 20.
  69. **McNeill, S.G.** 2003. Spatial variability of protein, oil and starch on yellow corn. Powerpoint presentation at the Precision Agriculture in Kentucky: 1st Annual Conference. Louisville, KY. Feb. 13.
  70. **McNeill, S.G.** 2002. Quality control of stored grain. Kentuckiana Crop Management Seminar. Owensboro, KY. Dec. 10-11.
  71. **McNeill, S.** 2002. Aeration strategies for stored wheat in the mid-South. Jan. 30. Murfreesboro, TN.

72. **McNeill, S.** 2001. Update on precision ag. studies at U.Ky. Mar. 3. Midwest Ag. Supply, Rockport, IN.
73. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins (presented by Tim Stombaugh). 2000. Spreadsheet for grain drill calibration, record keeping and seed cost control. Presented at the Southern Region Extension Agricultural Engineers Workshop. Savannah, GA.
74. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 2000. Agricultural pesticide handling and application technology demonstrations—A summary report. Presentation at the NPS Conference. Bowling Green, KY. May 23-25.
75. **McNeill, S.** 2000. Drying and storing specialty grains. Mar. 1. Midwest Ag. Supply. Rockport, IN.
76. **McNeill, S.G.**, S.A. Shearer, G.A. Watkins and S.F. Higgins. 2000. No-till drill comparison for wheat stand establishment following corn. Summary report to the Ky. Small Grain Growers Association. Louisville, KY.
77. **McNeill, S.** 1999. No-till drills—How do they compare? Aug. 18. Illinois Wheat Growers Annual Meeting, Macomb, IL.
78. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1999. Agricultural pesticide handling and application technology demonstrations—A summary report. Presentation at the NPS Conference. Somerset, KY. May 23-25.
79. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1999. Summary of pesticide handling and application technology demonstrations. Presentation to the Kentucky Fertilizer and Ag. Chemical Dealers Association Annual Conference. Louisville, KY.
80. **McNeill, S.G.** and S.A. Shearer. 1999. Precision Agriculture Committee Activities. Poster presentation at the UK CES Conference. Lexington, KY.
81. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1999. Hardin Co. Pesticide Handling and Storage Demonstration Facility. Poster presentation at the UK CES Conference. Lexington, KY.
82. **McNeill, S.G.**, Z.A. Henry, L.R. Wilhelm and H.S. Sidhu. 1998. Delayed harvest effects on chemical and moisture sorption properties of soybeans. Southern Region Extension Agricultural Engineers Triennial Workshop. Memphis, TN. Sept. 13-15.
83. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1998. Agricultural pesticide handling and application technology demonstrations—A summary report. Presentation at the NPS Conference. Lexington, KY.
84. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1997. Progress in research and education efforts for farmstead pesticide handling. Presentation at the Kentucky NPS Conference. Lexington, KY.
85. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 1996. Progress report on pesticide handling and application practices. Presentation at the Kentucky NPS Conference. Lexington, KY.
86. Johnson, D.W. and **S.G. McNeill**. 1993. ENTFACT-010. Plans and parts list for the "Texas" style cone trap for monitoring certain insect pests. University of Kentucky Entomology Dept
87. Gibson, C.D., **S.G. McNeill** and R. Trimble. 1993. How does on-farm corn drying stack up with commercial drying? University of Kentucky Ag. Economics Dept. 1993 Outlook Report.
88. **McNeill, S.G.** and D.G. Overhults. 1984. Response of swine and poultry to corn dried with biomass. Proceedings of the Solar and Biomass Workshop. pp.112-115. USDA Southern Agricultural Energy Center. Tifton, GA.
89. **McNeill, S.G.** and D.G. Overhults. 1983. Using corn cobs for drying grain on the farm.

Proceedings of the Solar and Biomass Workshop. pp. 258-261. USDA Southern Agricultural Energy Center. Tifton, GA.

## Invited Presentations

### *Invited International Presentations*

1. Monitoring Grain Temperature and Moisture in Storage
  - a. Jun. 6, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. May 30, 2017. US-Nigeria Commodity Storage Workshop VII-1. Ibadan, NI. 68 attended (8 women).
  - c. Mar. 10, 2017. AMPLIFIES Train-the-trainer Workshop. Kumasi, GH. 24 attended (6 women).
  - d. Jan. 10, 2017. Feed the Future PHL Innovation Lab Train-the-trainer Workshop. Kumasi, GH. 46 attended (6 women).
  - e. Jun. 7, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - f. May 31, 2016. US-Nigeria Commodity Storage Workshop VI-1. Ibadan, NI. 53 attended (12 women).
  - g. Jun. 8, 2015. US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - h. Jun. 2, 2015. US-Nigeria Commodity Storage Workshop V-1. Ibadan, NI. 54 attended (4 women).
  - i. Jun. 25, 2014. US-Nigeria Commodity Storage Workshop IV. Ibadan, NI. 43 attended (3 women).
  - j. Jul. 30, 2013. US-Nigeria Commodity Storage Workshop III - Module 2. Abuja, NI. 49 attended (6 women).
  - k. Jul. 30, 2013. US-Nigeria Commodity Storage Workshop III - Module 1. Abuja, NI. 21 attended (2 women).
  - l. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. Ibadan, NI. 61 attended (3 women).
  - m. Aug. 3, 2011. USDA-FAS Small Holder Farmer Training Workshop. Tamale, GH. 69 attended (3 women).
  - n. Aug. 1, 2011. USDA-FAS Small Holder Farmer Training Workshop. Navrongo, GH. 65 attended (3 women).
  - o. Jul. 26, 2011. USDA-FAS Small Holder Farmer Training Workshop. Techman, GH. 66 attended (4 women).
  - p. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2 women).
  - q. Mar. 9, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
  
2. Unit Operations for Post-harvest Grain Systems
  - a. Jun. 6, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. May 30, 2017. US-Nigeria Commodity Storage Workshop VII-1. Ibadan, NI. 68 attended (8 women). Mar. 10 2017. AMPLIFIES Train-the-trainer Workshop. Kumasi, GH. 24 attended (6 women).

- c. Jan. 10, 2017. Feed the Future PHL Innovation Lab Train-the-trainer Workshop. Kumasi, GH. 46 attended (6 women).
  - d. Jun. 7, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - e. May 31, 2016. US-Nigeria Commodity Storage Workshop VI-1. Ibadan, NI. 53 attended (12 women).
  - f. Jun. 8, 2015. US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - g. Jun. 2, 2015. US-Nigeria Commodity Storage Workshop V-1. Ibadan, NI. 54 attended (4 women).
  - h. Jun. 24, 2014. US-Nigeria Commodity Storage Workshop IV. Ibadan, NI. 43 attended (3 women).
  - i. Jul. 30, 2013. US-Nigeria Commodity Storage Workshop III - Module 2. Abuja, NI. 49 attended (6 women).
  - j. Jul. 30, 2013. US-Nigeria Commodity Storage Workshop III - Module 1. Abuja, NI. 21 attended (2 women).
  - k. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. Ibadan, NI. 61 attended (3 women).
  - l. Aug. 3, 2011. USDA-FAS Small Holder Farmer Training Workshop. Tamale, GH. 69 attended (3 women).
  - m. Aug. 1, 2011. USDA-FAS Small Holder Farmer Training Workshop. Navrongo, GH. 65 attended (3 women).
  - n. Jul. 26, 2011. USDA-FAS Small Holder Farmer Training Workshop. Techman, GH. 66 attended (4 women).
  - o. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2 women).
  - p. Mar. 9, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
3. Worker Safety Considerations for Grain Warehouses and Silos
- a. Jun. 7, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. May 31, 2017. US-Nigeria Commodity Storage Workshop VII-1. Ibadan, NI. 68 attended (8 women).
  - c. Mar. 11 2017. AMPLIFIES Train-the-trainer Workshop. Kumasi, GH. 24 attended (6 women).
  - d. Jan. 11, 2017. Feed the Future PHL Innovation Lab Train-the-trainer Workshop. Kumasi, GH. 46 attended (6 women).
  - e. Jun. 8, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - f. Jun. 1, 2016. US-Nigeria Commodity Storage Workshop VI-1. Ibadan, NI. 53 attended (12 women).
  - g. Jun. 9, 2015. US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - h. Jun. 3, 2015. US-Nigeria Commodity Storage Workshop V-1. Ibadan, NI. 54 attended (4 women).
  - i. Jun. 25, 2014. US-Nigeria Commodity Storage Workshop IV. Ibadan, NI. 46 attended (2 women).
  - j. Aug. 1, 2013. US-Nigeria Commodity Storage Workshop III - Modules 1 & 2. Abuja, NI. 49 attended (6 women).

- k. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. Ibadan, NI. 61 attended (3 women).
  - l. Aug. 3, 2011. USDA-FAS Small Holder Farmer Training Workshop. Tamale, GH. 69 attended (3 women).
  - m. Aug. 1, 2011. USDA-FAS Small Holder Farmer Training Workshop. Navrongo, GH. 65 attended (3 women).
  - n. Jul. 26, 2011. USDA-FAS Small Holder Farmer Training Workshop. Techman, GH. 66 attended (4 women).
  - o. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2 women).
  - p. Mar. 9, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
4. Aeration Systems
- a. Jun. 7, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. Jun. 8, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - c. Jun. 9, 2015. US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - d. Jul. 30, 2013. US-Nigeria Commodity Storage Workshop III - Module 1. Abuja, NI. 49 attended (6 women).
  - e. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. Ibadan, NI. 61 attended (3 women).
  - f. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2 women).
  - g. Mar. 11, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
5. Tools for Measuring Grain Temperature and Moisture: Hands-on Demonstration.
- a. Jun. 7, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. Jun. 1, 2017. US-Nigeria Commodity Storage Workshop VII-1. Ibadan, NI. 68 attended (8 women).
  - c. Jan. 11, 2017. Feed the Future PHL Innovation Lab Train-the-trainer Workshop. Kumasi, GH. 46 attended (6 women).
  - d. Jun. 8, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - e. Jun. 1, 2016. US-Nigeria Commodity Storage Workshop VI-1. Ibadan, NI. 53 attended (12 women).
  - f. Jun. 9, 2015. US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - g. Jun. 3, 2015. US-Nigeria Commodity Storage Workshop V-1. IITA Conf. Center, Ibadan, NI. 54 attended (4 women).
  - h. Jun. 25, 2014. US-Nigeria Commodity Storage Workshop IV. IITA Conf. Center, Ibadan, NI. 46 attended (2 women).
  - i. Aug. 1, 2013. US-Nigeria Commodity Storage Workshop III - Modules 1 & 2, Gran Ibro Hotel. Abuja, NI. 49 attended (6 women).
  - j. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. IITA Conf. Center, Ibadan, NI. 61 attended (3 women).

- k. Aug. 3, 2011.USDA-FAS Small Holder Farmer Training Workshop. Tamale, GH. 69 attended (3 women).
  - l. Aug. 1, 2011.USDA-FAS Small Holder Farmer Training Workshop. Navrongo, GH. 65 attended (3 women).
  - m. Jul. 26, 2011. USDA-FAS Small Holder Farmer Training Workshop. Techman, GH. 66 attended (4 women).
  - n. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2women).
  - o. Mar. 9, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
6. Personal Protection Equipment (PPE) for Grain Workers: Hands-on Demonstration.
- a. Jun. 7, 2017. US-Nigeria Commodity Storage Workshop VII-2. Ibadan, NI. 67 attended (16 women).
  - b. May 31, 2017. US-Nigeria Commodity Storage Workshop VII-1. Ibadan, NI. 68 attended (8 women).
  - c. Jan. 11, 2017. Feed the Future PHL Innovation Lab Train-the-trainer Workshop. CRI Conf. Hall. Kumasi, GH. 46 attended (6 women).
  - d. Jun. 8, 2016. US-Nigeria Commodity Storage Workshop VI-2. Ibadan, NI. 47 attended (6 women).
  - e. Jun. 1, 2016. US-Nigeria Commodity Storage Workshop VI-1. Ibadan, NI. 53 attended (12 women).
  - f. Jun. 9, 2015.US-Nigeria Commodity Storage Workshop V-2. Ibadan, NI. 49 attended (4 women).
  - g. Jun. 3, 2015.US-Nigeria Commodity Storage Workshop V-1. Ibadan, NI. 54 attended (4 women).
  - h. Jun. 25, 2014. US-Nigeria Commodity Storage Workshop IV. Ibadan, NI. 46 attended (2 women).
  - i. Aug. 1, 2013. US-Nigeria Commodity Storage Workshop III - Modules 1 & 2. Abuja, NI, NI. 49 attended (6 women).
  - j. Feb. 14, 2012. US-Nigeria Commodity Storage Workshop II: Train-the Trainer. Ibadan, NI. 61 attended (3 women).
  - k. Aug. 3, 2011. USDA-FAS Small Holder Farmer Training Workshop. Tamale, GH. 69 attended (3 women).
  - l. Aug. 1, 2011.USDA-FAS Small Holder Farmer Training Workshop. Navrongo, GH. 65 attended (3 women).
  - m. Jul. 26, 2011. USDA-FAS Small Holder Farmer Training Workshop. Techman, GH. 66 attended (4 women).
  - n. Mar. 17, 2010. US-Nigeria Commodity Storage Workshop. Akure, NI. 53 attended (2women).
  - o. Mar. 9, 2010. US-Nigeria Commodity Storage Workshop. Makurdi, NI. 59 attended (2 women).
7. Applying IPM to Stored Grain: Hands-on Demonstration.
- a. Aug. 4, 2011.US-Ghana On-farm Commodity Storage Workshop. Tamale, GH. 69 attended (3 women).
  - b. Aug. 2, 2011. US-Ghana On-farm Commodity Storage Workshop. Navrongo, GH. 65 attended (3 women).
  - c. Jul. 28, 2011. US-Ghana On-farm Commodity Storage Workshop. Techman, GH. 66 attended (4 women).

8. **McNeill, S.**, P. Armstrong, J. Akowuah, E. Osekre, M. Omobowale, G. Otitodun, K. Ileleji and G. Opit. 2017. Development of a low-cost moisture meter for the grain trade. 1<sup>st</sup> All Africa Post Harvest Congress. Mar. 30. Nairobi, KE.
9. **McNeill, S.**, K. Ileleji and G. Opit. 2016. Reducing post-harvest losses in Nigeria: Capacity building in the stored commodity sector. Abuja, NI. Sep. 22.
10. **McNeill, S.** 2016. Safety practices for pest mitigation and fumigation. Cochran Fellowship Program. OSU-SPREC Training Center. Stillwater, OK. Oct. 12.
11. **McNeill, S.** 2016. Fumigation technology and application methods. Cochran Fellowship Program. OSU-SPREC Training Center. Stillwater, OK. Oct. 12.
12. **McNeill, S.** 2016. Reducing post-harvest losses in Nigeria. Cochran Fellowship Program. OSU-SPREC Training Center. Stillwater, OK. Oct. 11.
13. **McNeill, S.** 2016. Stored grain inventory management. Cochran Fellowship Program.. OSU-SPREC Training Center. Stillwater, OK. Oct. 11.
14. **McNeill, S.** 2010. Extension agricultural engineering activities for post-harvest grain protection. Agronomy undergraduate class at the University of Rosario. Rosario, Argentina. Feb. 5.

#### International Meeting Presentations as co-author:

1. Ileleji, K., G. Opit, **S. McNeill**, M. Omobowale, A. Ala, G. Otitodun, S. Nwaubani, H. Tarver and E. Solorio. 2017. Stored grain protection and management capacity building in Nigeria--Review of 7 years of experience. 1<sup>st</sup> All Africa Post Harvest Congress. Mar. 29. Nairobi, KE.
2. Akowuah, J., S. Cook and **S. McNeill**. 2017. Solar bubble dryer, STR dryer and solar biomass hybrid dryer demonstration. AMPLIFES Train the Trainer Workshop. Mar. 22. Kwame Nkrumah University of Science and Technology. Kumasi, GH.
3. Akowuah, J. and **S. McNeill**. 2017. Grain drying and storage systems. AMPLIFES Train the Trainer Workshop. Mar. 22. Crop Research Institute. Kumasi, GH.
4. Akowuah, J., **S. McNeill** and P. Armstrong. 2017. Demonstration of solar biomass hybrid dryer. Feed the Future PHL IL-Ghana Workshop. Jan. 12. Ejura, GH.
5. Ileleji, K., G. Opit, **S. McNeill** and H. Tarver. 2015. Benefits of training stakeholders across the grain value chain--A capacity building effort in Nigeria. Rome, IT. Oct. 4-7.
6. Opit, G., J. Campbell, F. Arthur, P. Armstrong, E. Osekre, S. Washburn, O. Baban, **S.G. McNeill**, G. Mbata, I. Ayobami and P.V. Reddy. 2015. Assessment of maize postharvest losses in the Middle Belt of Ghana. 11<sup>th</sup> International Working Conference on Stored Product Protection. Nov. 24-28. Chiang Mai, Thailand.
7. Ileleji, K. and **S. McNeill**. 2013. Applying S.L.A.M. to your silo facility. US-Nigeria Commodity Storage Workshop III. Module I. Aug. 1. Abuja, NI.
8. Bhadra, R., J. Boac, R. Maghirang, M. Casada, **S. McNeill**, M. Montross and S. Thompson. 2013. Stored grain packing factors: field measurements. Report for USDA Inter-Agency Agreement Between the Agricultural Research Service (ARS) and the Federal Crop Insurance Corporation (FCIC) of the Risk Management Agency (RMA). Jul. 24. Kansas City, MO.
9. Boac, J.M., M.E. Casada, R. Bhadra, M.D. Montross, S.A. Thompson, **S.G. McNeill** and R.G. Maghirang. 2012. Updating the calculation of bushels from volumetric measurements. GEAPS Annual Meeting. Mar. 3-6. Minneapolis, MN.

10. Opit, G., K. Ileleji and **S. McNeill**. 2010. Commodity storage and global food security. Partnership on Trade, Industry and Commerce (PORTICO) III Conference: Post-Harvest Storage Track. Lagos, NI. June 1-2.
11. Opit, G., K. Ileleji and **S. McNeill**. 2010. US Commodity storage programs in Nigeria. PORTICO III Conference: Post-Harvest Storage Track. Lagos, NI. June 1-2.
12. Opit, G., K. Ileleji and **S. McNeill**. 2010. Opportunities for growing commercial agriculture. PORTICO III Conference: Post-Harvest Storage Track. Lagos, NI. June 1-2.

#### Poster Presentations:

1. **McNeill, S.** and M. Adams. 2021. Technical assistance for reducing postharvest losses of grains in West Africa. Biannual Meeting of University of Kentucky Cooperative Extension Service Professionals. Dec. 6-8. Lexington, KY.
2. Omobowale, M., A. Ala, G. Otitodun, S. Nwaubani, K. Ileleji, **S. McNeill**, G. Opit, A. Olenloa, O. Kolayemi, J. Ogwumike, J. Braimah, K. Ajao and G. Busari. 2017. Postharvest practices and losses: A case study of six farm settlements in Oyo State, Nigeria. The 1<sup>st</sup> All Africa Post Harvest Conference. Nairobi, Kenya. Mar 28-31.
3. Nwaubani, S., M. Omobowale, G. Otitodun, Ala, A.A., G. Opit, K. Ileleji, **S. McNeill**, M. Ogundare, G. Igbele, K. Ajao, J. Braimah, J. Olenola, O. Kolayemi and J. Ogwumike. 2017. Insect population dynamics in maize using four storage technologies. The 1<sup>st</sup> All Africa Post Harvest Conference. Nairobi, Kenya. Mar 28-31.
4. Otitodun, G., A. Ala, M. Omobowale, S. Nwaubani, G. Opit, **S. McNeill**, K. Ileleji, M. Ogundare, J. Braimah, G. Igbele, K. Ajao, G. Busari, O. Akhere, J. Ogwumike and O. Kolayemi. 2017. Quality of stored maize using integrated pest management and traditional practices in Nigerian markets. The 1<sup>st</sup> All Africa Post Harvest Conference. Nairobi, Kenya. Mar 28-31.
5. **McNeill, S.**, P. Armstrong, G. Opit, E. Osekre, N. Manu, J. Danso, I. Addo, A. Sanghi, K. Adu-Gyamfi and E. Nsiah. 2015. Assessment of grain moisture measurements and solar dryers in Ghana. 1<sup>st</sup> Int'l Congress on Postharvest Loss Prevention. Rome, IT. Oct. 4-7.
6. Ileleji, K. G. Opit and **S. McNeill**. 2012. The benefits of training stakeholders across the grain value chain—Lessons from a capacity building effort in Ghana. Purdue Improved Crop Storage Workshop. Accra, GH. Apr. 10-12.

#### Major Reports:

1. **McNeill, S.**, D. Overhults, M. Montross. 2020. Technical assistance for energy audits and renewable energy projects in rural Kentucky. Summary report to USDA Rural Development State Office. Mar. 30.
2. **McNeill, S.** 2019. Trip report to AMPLIFIES. Assessment of Small Grain Storage Warehouses (100 mt) in Ghana. Nov 13.
3. **McNeill, S.**, D. Overhults, M. Montross. 2019. Technical assistance for energy audits and renewable energy projects in rural Kentucky. Semi-annual report to USDA Rural Development State Office. Lexington, KY. July 10.
4. Opit, G.P., **S.G. McNeill**, P.R. Armstrong, G. Mbata, J. Ulmer, E. Osekre, J.O. Akowuah and K. Adu-Gyamfi. 2018. Trip report to KSU-USAID Feed the Future Innovation Lab for the

Reduction of Post-harvest Loss to summarize the train-the-trainer workshop on Jan 10-12 in Kumasi. Feb 17.

5. **McNeill, S.,** D. Overhults, M. Montross. 2018. Technical assistance for energy audits and renewable energy projects in rural Kentucky. Semi-annual report to USDA Rural Development State Office. Jan 30.
6. Omobowale, M., A. Ala, G. Otitodun, S. Nwaubani, Ileleji, K., **S. McNeill** and G. Opit. 2017. Technical assistance program on commodity protection in on-farm, warehouse and silo storage systems. A summary report of Training Workshop Series VII to USDA-FAS-OCBD. Jul. 28.
7. **McNeill, S.,** K. Ileleji, G. Opit, M. Omobowale, G. Otitodun, S. Nwaubani, A. Ala and M. Ayodele. 2017. Technical assistance program to reduce post-harvest losses in grain handling and storage facilities in Nigeria: Summary report of workshop VII to USDA-FAS-OCBD. Jul. 10.
8. **McNeill, S.,** D. Overhults, M. Montross. 2017. Technical Assistance for Energy Audits and Renewable Energy Projects in Rural Kentucky. Semi-annual report to USDA Rural Development State Office. Jun 30.
9. **McNeill, S.,** K. Ileleji, G. Opit, G. Otitodun, S. Nwaubani, M. Omobowale, A. Ala and M. Ayodele. 2016. Stakeholder Meetings with Post-harvest Loss Reduction Organizations in Nigeria: September trip report. USDA-FAS-OCBD. Oct. 28.
10. **McNeill, S.,** K. Ileleji, G. Opit, G. Otitodun, S. Nwaubani, M. Omobowale, A. Ala and M. Ayodele. 2016. Technical assistance program to reduce post-harvest losses in grain warehouses in Nigeria: Summary report of workshop VI to USDA-FAS-OCBD. Aug. 21.
11. **McNeill, S.** 2016. Trip report to KSU-USAID Feed the Future Innovation Lab for the Reduction of Post-harvest Loss-Ghana Team. Jun. 16.
12. Opit, G.P. and **S.G. McNeill.** 2016. Adapted 7-mt plastic water tanks: Technologies researched and found practical for scale-up. Feed the Future Innovation Lab for the Reduction of Postharvest Loss. News article. Apr. 19.
13. **McNeill, S.** 2016. Trip report for participation in the 1<sup>st</sup> World Congress for the Reduction of PHL. KSU-USAID Feed the Future IL for the Reduction of PHL. Feb. 12.
14. Ileleji, K., **S. McNeill** and G. Opit. 2015. Technical assistance program on commodity protection in on-farm, warehouse and silo storage systems. A summary report of Training Workshop Series V to USDA-FAS-OCBD. Jul. 27.
15. **McNeill, S.** and P. Armstrong. 2015. Training activities for subsequent field tests with the GrainPro Solar Bubble dryer and mycotoxins during maize harvest. USAID. Jun. 22.
16. **McNeill, S.,** D. Overhults, M. Montross. 2015. Technical assistance for energy audits and renewable energy projects in rural Kentucky. Summary report to USDA Rural Development State Office. Feb. 12.
17. Opit, G., J. Campbell, F. Arthur, P. Armstrong, E. Osekre, S. Washburn, **S. McNeill,** I. Egyr, J. Bello-Bravo, O. Baban, I. Ayobami, G. Mbata and P.V. Reddy. 2015. Trip report on the assessment of maize post-harvest losses in the middle belt of Ghana. USAID. Jan. 21.
18. Opit, G., J. Campbell, F. Arthur, P. Armstrong, E. Osekre, S. Washburn, O. Baban, **S. McNeill,** G. Mbata, I. Ayobami and P.V. Reddy. 2015. A report on the assessment of maize post-harvest losses in Northern Ghana. USAID. April 30.
19. Ileleji, K., **S. McNeill** and G. Opit. 2014. Technical assistance program to reduce post-harvest losses in grain warehouses in Nigeria: Summary report of workshop IV to USDA-FAS-OCBD. Oct. 8.

20. Opit, G., J. Campbell, F. Arthur, P. Armstrong, E. Osekre, S. Washburn, O. Baban, **S. McNeill**, G. Mbata, I. Ayobami and P.V. Reddy. 2014. A report on the assessment of maize post-harvest losses in the middle belt of Ghana. USAID. Aug. 21.
21. Ileleji, K., **S. McNeill** and G. Opit. 2013. Technical assistance program on commodity protection and management in grain silo storage systems in Nigeria: An in-country train-the-trainer workshop III. A summary report to USDA-FAS-OCBD. Aug. 30.
22. Ileleji, K., **S. McNeill** and G. Opit. 2012. Technical assistance program on commodity protection and management in grain silo storage systems in Nigeria: An in-country train-the-trainer workshop II. A summary report to USDA-FAS-OCBD. Mar. 21.
23. Opit, G., **S. McNeill** and K. Ileleji. 2011. Technical assistance program to reduce post-harvest losses of grain in Ghana: Comprehensive report to USDA-FAS-OCBD. Dec. 16.
24. Opit, G., **S. McNeill** and K. Ileleji. 2011. Technical assistance program to reduce on-farm post-harvest losses of grain in Ghana: A summary report to USDA-FAS-OCBD. Aug. 28.
25. **S. McNeill**, G. Opit and K. Ileleji. 2011. Technical assistance program to reduce post-harvest losses in grain warehouses in Ghana: Summary report to USDA-FAS-OCBD. Apr. 1.
26. Opit, G., K. Ileleji and **McNeill, S.** 2010. Reducing post-harvest grain losses in Ghana. A summary report to USDA-FAS-OCBD, Nov. 19.
27. **McNeill, S.**, K. Ileleji and G. Opit. 2010. Technical assistance program on commodity protection and management in grain silo storage systems in Nigeria. A summary report to USDA-FAS. April 21.
28. Ileleji, K., **McNeill, S.** and G. Opit. 2009. Commodity storage assessment and capacity building needs in Nigeria. A summary report to USDA-FAS-OCBD. Nov. 16.
29. **McNeill, S.G.**, S.A. Shearer and G.A. Watkins. 2000. Agricultural pesticide handling and application technology demonstrations—Final report. Prepared for the Kentucky Division of Conservation and Division of Water and the USEPA Regional Office. Atlanta, GA.

#### Decision Tools Developed/Internet Resources

BAE (<https://www.uky.edu/bae/grain-storage-systems>)

- Surface areas of grain piles, bin walls and volume of sub-floors (May 2022)
- Equilibrium moisture content for 16 grains/oilseeds (Jan. 2022)
- Cost comparison of harvest losses vs drying for organic corn (May 2014)
- Checklist of information needed to perform energy audits for grain dryers (May 2011)
- Grain hauling costs (Sept. 2010)
- Cost comparison of harvest losses vs drying corn (May 2009)
- Cost Comparison between Wheat Drying and Delayed Soybean Planting (May 2008)
- Grain shrink calculator (May 2007)

#### Other Extension Products:

##### Engineering Design

1. Provided design assistance for 20 grain handling, drying and storage systems (statewide).
2. Developed 35 custom layouts for beef corrals and feed lots for Kentucky background and cow-calf producers in Campbell, Hardin, Henry, Nelson, Trigg and Washington Cos.

3. Provided design assistance for pasteurized apple cider processing facility in Warren Co.

Radio tapes:

1. Moisture Limits for Corn in Summer. Ag. tape for Jack Crowner, Mar. 11, 2003.
2. Inspection Tips for Stored Grain in Winter. Ag. tape for Jack Crowner, Jan. 15, 2003.
3. Controlling Grain Temperatures in the Fall. Ag. tape for Jack Crowner. Oct. 1, 2002.
4. Wheat Seed Cost Calculator. Ag. tape for Jack Crowner. Sep. 4, 2002.
5. Clean Grain Equipment Thoroughly Prior to Harvest. Ag. tape for Jack Crowner. Aug. 6, 2002.
6. UKCA Field Day 2002. Live broadcast during field day. Jul. 18, 2002.
7. UKCA Field Day 2002. Ag. tape for Jack Crowner. Jul. 9, 2002.
8. UKCA Field Day 2002. KY Farm Bureau tape with Mike Feldhause. Jun. 13, 2002.
9. Inspection Tips for Stored Grain in Winter. Ag. tape for Jack Crowner. Feb. 4, 2002.
10. Use S.A.M. to Control Stored Grain Pests. UKCA program broadcasts. Jan. 7, 2002.
11. Getting the Most from your Grain Dryer. Ag. tape for Jack Crowner. Sep. 12, 2001.
12. Advances in Precision Agriculture. Taped interview with WKMS, Murray, KY. May 24, 2001.
13. Upcoming UK Grain Storage Workshops. UKCA program broadcasts. Feb. 5, 2001.
14. Grain Drill Performance and Calibration. Interview with local station in Henderson, KY. Sep. 13, 1999.

Television Interviews:

15. Controlling Grain Temperature in the Fall. Videotaped interview for WBKO-TV. Sep. 3, 2002.
16. Use SLAM to Control Stored Grain Pests. Videotaped interview for WBKO-TV. Sep. 3, 2002.
17. Wheat Seed Cost Calculator/Tool. Videotaped interview for WBKO-TV. Sep. 3, 2002.
18. UKCA Field Day 2002. Videotaped interview for WPSD-TV. July 15, 2002.
19. UKCA Field Day 2002. Videotaped interview for WFIE-TV. July 10, 2002.
20. UKCA Field Day 2002. Videotaped interview for Channel 43. July 9, 2002.
21. UKCA Field Day 2002. Videotaped interview for UKCA Extension Today. Jun. 13, 2002.
22. UKCA Field Day 2002. Videotaped interview for WBKO-TV. May 7, 2002.
23. Moisture Limits for Corn in Summer. Videotaped interview for WBKO-TV. May 7, 2002.
24. Inspection Tips for Stored Grain in Winter. Videotaped interview for WBKO-TV. Jan. 8, 2002.
25. Grain System Automation. Videotaped interview for WBKO-TV. Jan. 8, 2002.
26. Cattle Handling Facilities Program. Videotaped interview for WBKO-TV. Jan. 8, 2002.
27. Sanitation Tips Before and During Grain Harvest. Videotaped interview for WBKO-TV. Aug. 14, 2001.
28. Don't Forget to Cool Stored Grain in September. Videotaped interview for WBKO-TV. Aug. 14, 2001.

29. Precision Agriculture Projects at UK. Videotaped interview for WBKO-TV. May 22, 2001.
30. Evaluating Grain Storage Needs. Videotaped interview for WBKO-TV. May 22, 2001.
31. Wheat Storage Tips. Videotaped interview for WBKO-TV. Jun. 13, 2000.
32. Biosystems and Agricultural Engineering Tour at the UKCA Field Day 2000. Videotaped interview for WBKO-TV. Jun. 13, 2000.
33. Precision Ag. Tour at the UKCA Field Day 2000. Videotaped interview for WBKO-TV. Jun. 13, 2000.
34. Getting Your Grain System Ready for Corn Harvest. Aug. 31, 1999. Videotaped interview for WBKO-TV. Aug. 13, 1999.
35. Getting Your Grain Drill Ready for Planting Wheat. Videotaped interview for WBKO-TV. Aug. 31, 1999.
36. Grain Drill Performance in Wheat Following Corn. Videotaped interview for WBKO-TV. Aug. 31, 1999.
37. Cleaning Corn Handling and Storage Equipment. Videotaped interview for WBKO-TV. Aug. 25, 1998.
38. Measuring Corn Harvest Losses. Videotaped interview for WBKO-TV. Aug. 25, 1998.
39. Checklist for Grain Dryers. Videotaped interview for WBKO-TV. Aug. 25, 1998.
40. Moisture Limits for Stored Grain in the Summer. Taped interview for WBKO-TV. Apr. 7, 1998.
41. Temperature Limits for Stored Grain in the Summer. Taped interview for WBKO-TV. Apr. 7, 1998.
42. Preparing Equipment for Wheat Harvest. Taped interview for WBKO-TV. Apr. 7, 1998.

[Slide Sets \(PowerPoint\) \(12 total\):](#)

A. Grain Facilities

1. Temporary Grain Storage Structures
2. Optimizing Your Grain Harvesting, Handling and Drying System
3. Aeration Management (Temperature Cables and Fan Controllers)
4. Quality Assurance for GM Grains
5. Maintaining Stored Grain Quality

B. Crop Production

1. Nozzle Selection for Field Sprayers
2. Controlling Drift from Field Sprayers
3. Sprayer Calibration Procedures

C. Beef Facilities

1. Beef Corrals for Small to Medium Herds
2. Planning Beef Corrals

D. Youth and 4-H Programs

1. Who Wants to be an Agricultural Engineer?
2. Who Wants to be a UK College of Agriculture Graduate?

## **OTHER EXTENSION ACTIVITIES:**

### Agent Training Topics:

1. Measuring grain harvest losses and grain hauling calculator. Oct 18, 2016. Lexington, KY.
2. Grain hauling spreadsheet tool/calculator. Dec 8, 2015. Princeton, KY.
3. Grain storage systems. Nov 9, 2015. Princeton, KY.
4. Grain drying systems. Oct 26, 2015. Princeton, KY.
5. Measuring corn harvest losses. Sep 18, 2015. Princeton, KY.
6. Grain drying and storage systems. Sep 12, 2014. Lync webinar.
7. Organic corn production in Kentucky. Jan 16, 2013. Bowling Green, KY.
8. Spreadsheet tools for grain storage systems. Oct 24, 2012. Benton, KY.
9. Tips on handling corn with aflatoxin. Sep 7, 2012. Webinar.
10. Beef Handling Facilities Update, Glasgow, KY (Jul. 2001); Versailles, KY (Sep 2001).
11. Wheat Field Day –Logan Co. (May 2001).
12. Mapping software for precision agriculture. (Oct. 2000).
13. New environmental regulations for AFOs and CAFOs (Sep. 2000).
14. Wheat Field Day –Henderson Co. (May, 2000).
15. UKCA Wheat Field Day – multi-regional/state event in Fulton Co. (May 2000).
16. Demonstrated new decision aid (spreadsheet) for grain drill calibration at Ag. Economics training session on newly developed decision tools (Dec. 1999).
17. Grain Harvesting, Drying and Storage. (Jul. 1999).
18. UKCA Wheat Field Day – multi-regional/state meeting in Christian Co. (May 1999).

### Involvement with Other Professionals:

1. Organized two grain storage meetings with an Agricultural Economist, Agricultural Engineer, Entomologist, and Plant Pathology from Purdue University and the University of Tennessee.
2. Member of the newly formed UKCA Corn and Soybean Science Group (since 2000), which consists of extension and research faculty in Ag. Economics, Agronomy, Entomology and Plant Pathology. Wrote chapter on harvesting, drying and storing corn for UKCA Corn Production Manual (ID-139).
3. Member of the UKCA New Crop Opportunities Committee (1999 - 2000), which is composed of extension and research faculty in Agronomy, Agricultural Economics, Agricultural Engineering, and Horticulture.
4. Member of the UKCA Precision Ag. Committee (since 1998), which consists of extension and research faculty in Agronomy, Ag. Economics and Ag. Engineering.
5. Member of the UKCA Wheat Science Group (since 1997), which consists of research and extension faculty in Agronomy, Ag. Economics, Ag. Engineering, Entomology and Plant Pathology. My focus is on grain drills and postharvest processing issues for wheat production.

Demonstration Projects:

1. Comparison of on-farm grain storage management strategies for corn and wheat at two locations in western Kentucky and western Tennessee.
2. **McNeill, S.**, A. Watkins and S. Shearer. 1996-1998. Seven on-farm pesticide handling and storage facilities were designed, built and demonstrated in Calloway, Hardin, Marshall and Shelby Counties.

**PROFESSIONAL MEETINGS ATTENDED (SINCE 1998):**

1. ASABE Annual International Meeting-Technical Sessions. July 17-20, 2022. Houston, TX.
2. Corn Utilization & Technology Conference (virtual). June 7-8, 2022.
3. NC-213 Annual Meeting (virtual). Mar. 29-30, 2022. Organized by OARDC, Wooster, OH.
4. 3<sup>rd</sup> Annual James Beam Institute Industry Conference. Mar. 14-16, 2022. Lexington, KY.
5. Kentucky Extension Professionals – statewide Meeting. Dec. 6-8, 2021. Lexington, KY.
6. 3<sup>rd</sup> All Africa Post-Harvest Congress and Exhibition (virtual/hybrid). Sep 13-16, 2021. Addis Ababa, Ethiopia.
7. ASABE Annual International Meeting (virtual). July 11-14, 2021.
8. 2<sup>nd</sup> Annual James Beam Institute Industry Conference. Mar. 15-17, 2021. Lexington, KY.
9. ASABE Annual International Meeting (virtual). July 13-15, 2020.
10. First Annual James Beam Institute Industry Conference. Feb. 24-26, 2020. Lexington, KY.
11. 2<sup>nd</sup> All Africa Post-Harvest Congress and Exhibition. Sep. 17-20, 2019. Addis Ababa, Ethiopia.
12. Global Food Security Strategy Launch—Nigeria. July 18-19, 2019. Abuja, NI.
13. ASABE Annual International Meeting-Technical Sessions. July 8-10, 2019. Boston, MA.
14. Global Food Security Strategy Workshops—Nigeria. Mar. 21-22, 2019. Abuja, NI.
15. NC-213 Annual Meeting. Feb. 26-27, 2019. Ames, IA.
16. International Workers Conference on Stored Product Protection. Oct. 8-13, 2018. Berlin, DE.
17. ASABE Annual International Meeting-Technical Sessions. July 29- Aug. 1, 2018. Detroit, MI.
18. Feed the Future Innovation Lab for the Reduction of Post-harvest Loss Annual Leadership Meeting. May 1-2, 2018. Urbana, IL.
19. NC-213 Annual Meeting. Feb. 21-22, 2018. Kansas City, MO.
20. ASABE Annual International Meeting-Technical Sessions. July 16-19 2017. Spokane, WA.
21. Feed the Future Innovation Lab for the Reduction of Post-harvest Loss Annual Leadership Meeting. April 27-28, 2017. Manhattan, KS.
22. 1<sup>st</sup> All Africa Post-Harvest Congress and Exhibition. Mar 28-31, 2017. Nairobi, Kenya.
23. NC-213 Annual Meeting. Feb. 28- Mar. 1, 2017. Kansas City, MO.
24. GEAPS Annual Meeting. Feb. 27- 28, 2017. Kansas City, MO.

25. Feed the Future Innovation Labs West Africa Regional Meeting. Feb. 6-8, 2017. Dakar, Senegal.
26. Mechanization and Postharvest Opportunities for Smallholders in Sustainable Agriculture. July 22, 2016. Urbana, IL.
27. ASABE Annual International Meeting-Technical Sessions. July 17-20, 2016. Orlando, FL.
28. Online Teaching and Active Learning: Flipping the Classroom (CPD #8). ASABE Annual International Meeting-Technical Sessions. July 17, 2016. Orlando, FL.
29. Feed the Future Innovation Lab for the Reduction of Post-harvest Loss Annual Leadership Meeting. May 11-12, 2016. Manhattan, KS.
30. KASEP Spring Meeting. Apr. 15, 2016. Frankfort, KY.
31. USAID Feed the Future (Ghana) Implementing Partner's Meeting. Mar. 15, 2016. Accra, GH.
32. NC-213 Annual Meeting. Feb. 29-Mar. 1, 2016. Austin, TX.
33. GEAPS Annual Meeting. Feb. 28-29, 2016. Austin, TX.
34. 1<sup>st</sup> International Congress on Post-harvest Loss Prevention. Oct. 4-7, 2015. Rome, IT.
35. ASABE Annual International Meeting. July 26-29, 2015. New Orleans, LA.
36. Feed the Future Innovation Lab for the Reduction of Post-harvest Loss - Annual Leadership Meeting. Mar. 3-4, 2015. Manhattan, KS.
37. UK Wheat Science Field Day. May 12, 2015. Princeton, KY.
38. Azteca Milling Seminar. Mar. 12, 2015. Henderson, KY.
39. NC-213 Annual Meeting. Feb. 18-19, 2015. Kansas City, MO.
40. National Farm Machinery Show. Feb. 13, 2015. Louisville, KY.
41. Rural Energy for America Program update. Jan. 20, 2015. Elizabethtown, KY.
42. ASABE Annual International Meeting. July 27-30, 2014. Montreal, CN.
43. UK-KSU Bi-Annual CES Meeting. Feb. 27, 2014. Lexington, KY.
44. GEAPS Annual Meeting. Feb. 23-26, 2014. Omaha, NB.
45. NC-213 Annual Meeting. Feb. 24-26, 2014. Omaha, NB.
46. UK Winter Wheat Seminar. Jan. 7, 2014. Hopkinsville, KY.
47. ASABE Annual International Meeting. July 21-24, 2013. Kansas City, MO.
48. Tennessee Renewable Energy Seminar, July 9, 2013. Clarksville, TN.
49. Energizing Kentucky III Extension Conference. April 15-16, 2013. Lexington, KY.
50. GEAPS Annual Meeting. Feb. 25-26, 2013. Louisville, KY.
51. Workshop to reduce global post-harvest losses. Jan. 13, 2013. Washington, D.C.
52. UK Winter Wheat Seminar. Jan. 8, 2013. Hopkinsville, KY.
53. Mycotoxin Strategies for the 2012 Corn Harvest. Webinar (wattagnett.com). Oct. 23, 2012.
54. ASABE Annual International Meeting. July 29-Aug. 1, 2012. Dallas, TX.
55. Designing Agricultural Applications for Handheld Mobile Devices. July 29 2012. Dallas, TX.
56. KY Association of State Extension Specialists. Mar. 20, 2012. Lexington, KY.

57. Biofuel Opportunities in the mid-South. Memphis Bioworks. Sep. 1, 2011. Memphis, TN.
58. ASABE Annual International Meeting. Aug. 8-10, 2011. Louisville, KY.
59. Kentucky Renewable Energy Consortium Quarterly Meeting. June 29, 2011. Louisville, KY.
60. NC-213 Annual Meeting. Feb. 6, 2011. Kansas City, MO.
61. UK Winter Wheat Seminar. Jan. 13, 2011. Hopkinsville, KY.
62. KY Association of State Extension Specialists. Sep. 14, 2010. Lexington, KY.
63. ASABE Annual International Meeting. June 20-23, 2010. Pittsburgh, PA.
64. Tennessee Renewable Energy Educational Workshop. April 13, 2010. Jackson, TN.
65. Grain Conditioning Webinar. Grain Journal. April 9, 2010.
66. USDA-NRCS-RCD informational REAP meeting. Nov. 19, 2009. Morganfield, KY.
67. Executive Task Force on Biomass and Biofuels Development in Kentucky. Oct. 14, 2009. Frankfort, KY.
68. Sustainable Ag and Food Systems Working Group. Tour of UK Beef Operation. Oct. 7, 2009. Lexington, KY.
69. Biofuel Opportunities in the Purchase Area. Memphis Bioworks. Sep. 16, 2009. Mayfield, KY.
70. Kentucky Renewable Energy Consortium Quarterly Meeting. Sep. 7, 2009. Louisville, KY.
71. Kentucky Agriculture Council. Aug. 20, 2009. Louisville, KY.
72. ASABE Annual International Meeting. June 21-24, 2009. Reno, NV.
73. UK Wheat Field Day. May 19, 2009. Hopkinsville, KY.
74. KY Association of State Extension Specialists. Mar. 18, 2009. Lexington, KY.
75. NC-213 Annual Meeting. Feb. 18-19, 2009. Kansas City, MO.
76. UK Winter Wheat Seminar. Jan. 13, 2009. Hopkinsville, KY.
77. SoyaSummit 2008 (Fuel Track). Soyatech. Sep. 2008. St. Louis, MO.
78. Combine Field Day. Aug. 8, 2008. Eddyville, KY.
79. Soybean Festival. July 22, 2008. Princeton, KY.
80. Annual International ASABE Meeting. July 2008. Providence, RI.
81. What's Driving World Energy Prices? July 8, 2008. Webinar.
82. NC-213 Annual Meeting. Feb. 2008. Omaha, NE.
83. KY Association of State Extension Specialists. Feb. 2008. Lexington, KY.
84. Renewable energy. Ohio Energy Office. Nov. 11, 2007. Piketon, OH.
85. Annual International ASABE Meeting. June 26-29, 2007. Minneapolis, MN.
86. NC-213 Annual Meeting. Feb. 26-28, 2007. Kansas City, MO.
87. State Extension Conference. Feb. 2007. Lexington, KY.
88. KY Association of State Extension Specialists. Feb. 2007. Lexington, KY.
89. UK Winter Wheat Seminar. Hopkinsville, KY. Jan. 2007. Bowling Green, KY.

90. Agricultural Energy Conference. Alabama Energy Dev. Council. Nov. 28, 2006. Auburn, AL.
91. National Soybean Rust Symposium. PMNI. Nov. 2006. St. Louis, MO.
92. SoyaSummit 2006 (Fuel Track). Soyatech. Sep. 2006. St. Louis, MO.
93. Annual International ASABE Meeting. July 2006. Portland, OR.
94. Mold and Mycotoxins in Stored Grain. Webinar (web seminar). Apr. 25, 2006.
95. Grain Elevator and Processor Society (GEAPS) and USDA Regional Research Committee NC-213 (joint meeting). Feb. 2006. Nashville, TN.
96. Agricultural Engineering Technology Conference. ASABE. Feb. 2006. Louisville, KY.
97. CSREES Grant Writing Workshop. USDA. Feb. 9, 2006. Cincinnati, OH.
98. Alternate Fuels Energy Summit. Kentucky Clean Fuels Coalition. Jan. 23, 2006. Frankfort, KY.
99. Agricultural Energy Conference. Alabama Energy Dev. Council. Nov. 9, 2005. Auburn, AL.
100. Energy from Agriculture. USDA—DOE. Dec. 2005. St. Louis, MO.
101. National Soybean Rust Symposium. PMNI. Nov. 2005. Nashville, TN.
102. GIS User's Group – Quarterly Meeting. Pennyrile ADD. Oct. 6, 2005. Hopkinsville, KY.
103. National Organic Stored Grain Protection Workshop. Aug. 2005. LaFayette, IN.
104. Opti-Crop Field Day. Miles Farm Supply. Aug. 3, 2005. Owensboro, KY.
105. Annual International ASAE Meeting. July 2005. Tampa, FL.
106. Precision Ag. Conference. KPAN. Feb. 17, 2005. Louisville, KY.
107. Biodiesel Breakfast. Kentucky Clean Fuels Coalition. Feb. 8, 2005. Frankfort, KY.
108. ESRI Workshop for western KY and southern IN GIS users. Aug. 26, 2004. Owensboro, KY.
109. ASAE and CSAE Annual International Meeting. Aug. 1-4, 2004. Ottawa, ON.
110. International Quality Grain Conference. July 19-22, 2004. Indianapolis, IN.
111. NC-213 Annual Winter Meeting. Feb. 24-25, 2004. Minneapolis, MN.
112. ASAE Annual International Meeting. July 27-30, 2003. Las Vegas, NV.
113. Short Course on Wheat Quality as it Relates to Milling and Baking Properties. July 15-17, 2003. Kansas State University. Manhattan, KS.
114. ASAE Annual International Meeting. Chicago, IL. July 28-31, 2002.
115. Soft Red Winter Wheat Workshop. Woester, OH. Apr. 10, 2002.
116. NC-213 Grain Quality Conference. Kansas City, MO. Feb. 21-22, 2002.
117. 6<sup>th</sup> National IPM Stored Products Conference Planning Meeting. USDA Grain Production and Marketing Lab. Manhattan, KS. Feb. 19, 2002.
118. DOE Workshop for Biomass Feedstock Development Projects. Memphis, TN. Nov. 7-8, 2001.
119. ASAE Annual International Meeting. July 29-Aug. 1, 2001. Sacramento, CA.
120. Purdue University Value-Added Grain Seminar. Nov. 30, 2000. Evansville, IN.
121. ASAE Annual International Meeting. July 9-12, 2000. Milwaukee, WI.
122. USDA SE Regional Workshop on Precision Agriculture. Dec. 7, 1999. Memphis, TN.

123. Purdue University Value-Added Grain Seminar. Dec. 1, 1999. Evansville, IN.
124. ASAE Annual International Meeting. July 18-21, 1999. Toronto, ON.
125. Agricultural Engineering Technology Conference. Feb. 7-10, 1999. Louisville, KY.
126. Annual Meeting of National Association of Wheat Growers. Feb. 4-5, 1999. Nashville, TN.
127. University of Missouri workshop on precision agriculture. Jan. 28, 1999. Sikeston, MO.
128. Triennial Workshop of Agricultural Engineers in the Southeast. Oct. 1998. Wilmington, NC.
129. ASAE Annual International Meeting. July 12-15, 1998. Orlando, FL.

### **PROFESSIONAL SERVICE (SINCE 1998):**

1. College of Agriculture, Food and Environment
  - Outside reviewer for 1 PhD student in Plant Pathology (2022)
  - Wheat Science Group (1997 to present)
  - Corn and Soybean Science Group (2002 to present)
  - International Working Group (2010 to present)
  - Hemp Working Group (2019 to present)
  - Sustainability Working Group (2010-2014)
2. Biosystems & Agricultural Engineering Department
  - Extension Committee (1998 to present)
  - Co-advisor for 2 PhD students in BAE (2019 & 2023)
  - Committee member for 1 MS students and 2 PhD students in BAE (2010, 2015 & 2017)

### **PROFESSIONAL SOCIETIES & ACTIVITIES:**

- American Society of Agricultural and Biological Engineers (ASABE)
  - FPE-702 Grain and Feed Processing and Storage Committee (Chair 2001-2003; Vice Chair/Secretary 2000-2001)
  - FPE-709 Biomass Energy and Industrial Products Committee (Chair 1988-1990)
  - ED-208 Extension Education Committee
  - T-3 Energy Committee
  - P-515 Textbooks and Monographs Committee (Chair 2001-2003; Secretary 1999-2001).
  - On-farm Energy Audit Development Working Group
  - P-512 Monographs Committee (1992 – 1999)
  - FPE-03 Standards Committee (1992 – 1995)
  - SE-402 Beef Housing Committee (1980 – 1983)
- African Network Group of ASABE (2017 to present)
- Kentucky Association of State Extension Professionals (KASEP)
- NC-213 Executive Committee: (Past Chair - 2019; Chair - 2018; Vice Chair – 2017)
- Kentucky Association of State Extension Specialists (KASEP, formerly AKES):

- Audit committee (2016)
- eXtension renewable energy and energy efficiency development group
- Gamma Sigma Delta ( $\Gamma\Sigma\Delta$ ) (1982 – 2003)
- Planning Committee for 2001 Statewide Extension Conference
- Planning Committee for 1999 Statewide Extension Conference
- Board of Directors 1997 – 1999
- Awards Committee 1985, 1993

#### Reviewer Service (from ASABE editors)

- ASABE – peer reviewer for journal articles (16 reviews to date)
- Review extension publications for Blue Ribbon Awards (18 to date)
- Review journal articles for Journal of Stored Products Research, Journal of Food and Agriculture Research and Journal of the Science of Food and Agriculture (25 reviews to date)
- Review research proposals for NC-213 (2019 and 2021)
- Five extension publications from Midwest Plan Service, American Association of Cereal Chemists, and other University Extension Services.

#### College of Agriculture

- Ag Faculty Council (2013 – 2015)
- University Faculty Senate Representative (Sep 2006 – Aug 2008)
- Review panel for Precision Resource Management Grants (Feb-Mar 2010)
- Kentucky Association of State Extension Workers Board Member (Sep 2010 – Aug 2013)
- Volunteer Ambassador at World Equestrian Games (Oct 2010)
- Wheat Science Group
- Corn and Soybean Science Group
- Sustainable Food and Agriculture Systems Working Group
- Renewable Fuels Task Force
- Corn and Soybean Science Group (1999 – present)
- New Crop Opportunities Committee (1999 – 2000)
- Wheat Science Group (1998 – present)
- Precision Agriculture Committee (1997 – 2003)
- Alumni (Lifetime member since 1982)

#### Biosystems and Agricultural Engineering Department

- Extension Committee (1979-present)
- Building Committee (2016-present)
- Alumni Committee (2016-present)
- Awards Committee (2014)
- Worked in BAE booth at State Fair (Aug 2010)
- Coordinated display of autonomous tractor, ¼-scale tractor, biofuels and information of vegetable cooler at the Ag. Expo in Elizabethtown, KY. Aug 27-28, 2010.
- Assisted with program planning for KASEP visit to BAE on Dec. 8, 2010 in Lexington.
- Student Recruitment Committee (BAE booth at State Fair in 8/01)
- Social Committee (1990 – 1996, 2014)
- BAE booth at National Farm Machinery Show each year (1979 – 2011, 2013, 2015, 2018, 2019, 2020 & 2022)

Research and Education Center

- Advisory Committee – 2010-2011
- UKCA Field Day Committee: Logistics Committee Chair – 2009-2010
- UKCA Field Day Committee: – Exhibit Committee Chair – 2006 & 2008
- Chair of UKCA All Commodity Field Day 2002 Committee (2001 – 2002)
- Member of Land Use Committee – 1999 - 2001
- Member of Resource Room Committee – 1997- 2003 (Chair 1997 – 2001)
- UKCA Field Day Committee: Member 1990, 1992, 1994, 1998, 2000, 2002 & 2004

Summary of Extension Activities (2004-2017)

County extension presentations	24
Area/Regional extension presentations	22
State and multi-state presentations	8
International presentations	36
Popular press/news articles	14
Radio programs	30
Television programs	24
Farm visits	51
Conference calls	136
Phone calls	680
Email replies	10,560