



Robert M. Stwalley, III
Clinical Associate Professor, Agricultural & Biological Engineering
PhD 1992, Purdue University
MSE 1985, Purdue University
BSAgEn 1982, Purdue University
Teaches ASM 22200, ABE 33000, ASM 34500, ABE 44400, ASM 44400, ABE 54500

Recent Papers

R Stwalley, G Baldwin, V Booth-Womack, S Larose, C Stwalley. 2022. Using Support Networks as a Predictor of Success for STEM Degrees: Preliminary Results Detailing a Selection Process for Test Subjects Engaged in a Longitudinal Study of Low Socio-Economic Status American Undergraduate Students. *International Journal of Engineering Pedagogy* 12(6).

R Stwalley, G Baldwin, V Booth-Womack, S Larose, C Stwalley. 2022. Mentoring Low-SES Students and Developing Professional Support Networks. 2022 ASEE Annual Conference & Exposition.

GL Baldwin, RM Stwalley III. 2022. Opportunities for the Scale-Up of Irrigation Systems in Ghana, West Africa. *Sustainability* 14 (14), 8716.

GL Baldwin, RM Stwalley III. 2022. A review of freshwater programming and access options in Ghana, West Africa. *African Journal of Water Conservation and Sustainability* 10 (4), 1-19.

MM Boland, YU Choi, DG Foley, MS Gobel, NC Sprague, S Guevara-Ocana, YA Kuleshov, RM Stwalley III. 2022. Reducing Soil Compaction from Equipment to Enhance Agricultural Sustainability. *Sustainable Crop Production: Recent Advances*, 109.

TJ McPheron, RM Stwalley III. 2022. Engineering Challenges Associated with Welding Field Repairs. In *Engineering Principles*, KO Cooke and RC Cozza, eds. IntechOpen.

JS Johnson, TL Jansen, M Galvin, TC Field, JR Graham, RM Stwalley, AP Schinckel. 2022. Electronically controlled cooling pads can improve litter growth performance and indirect measures of milk production in heat-stressed lactating sows. *Journal of Animal Science* 100 (2), skab371.

GL Baldwin, VL Booth Womack, SE LaRose, CS Stwalley, RM Stwalley III. 2022. Mentoring low-SES students and developing professional support networks. 2022 ASEE Annual Summer Conference.

GL Baldwin, TJ McPheron, RM Stwalley. 2022. Improving the Driving Capabilities of a Well-Driven PUP (Purdue Utility Project) to Install Low-Cost Driven Water Wells. 2022 ASABE Annual International Meeting 2200203.

TC Field, S Neeno, S Libring, J Flores, MM Morris, AP Schinckel, JS Johnson, RM Stwalley. 2022. Development of a Real Time Internal Temperature Monitoring Device for Sows. 2022 ASABE Annual International Meeting, 2200204.

GL Baldwin, VB Womack, SE LaRose, CS Stwalley, RM Stwalley. 2022. A Comparison of the Academic Performance of Rising Scholars with Other Student Demographic Groupings before and during the COVID Pandemic. 2022 ASABE Annual International Meeting, 2200205.

FA Cabezon, TC Field, JS Johnson, AP Schinckel, RM Stwalley. 2022. Initial Evaluation of Sow Cooling Pad Coolant Protocols on Performance and Physiological Conditions Measured by Precision Animal Data System. *Applied Engineering in Agriculture* 38 (1), 177-191.

TL Jansen, MJ Galvin, TC Field, JR Graham, RM Stwalley, AP Schinckel, JS Johnson. 2021. PSII-6 Electronically controlled cooling pads improve litter growth and thermoregulatory measures and increase total heat production in heat stressed lactating sows. *Journal of Animal Science* 99 (Supplement_3), 312-312.

JR Graham, MJ Galvin, TL Jansen, TC Field, RM Stwalley, JS Johnson, AP Schinckel. 2021. PSII-2 Daily patterns for respiration rates and internal temperatures of heat stressed lactating sows with or without electronically controlled cooling pads. *Journal of Animal Science* 99 (Supplement_3), 321-321.

Recent Patents

AP Schinckel, RM Stwalley III. 2022. Systems and Methods for Cooling an Animal. US Patent 11,219,192.