

AMY MILLMIER SCHMIDT, PH.D., P.E.

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Education

Doctor of Philosophy, Biological Engineering August 2010
Mississippi State University, Starkville, MS

Master of Science, Agricultural Engineering May 1999
Iowa State University, Ames, IA

Bachelor of Science, Agricultural Engineering December 1997
Iowa State University, Ames, IA

Professional Experience

University of Nebraska – Lincoln
Departments of Biological Systems Engineering and Animal Science
Assistant Professor 2012 – Present

Mississippi State University
Department of Agricultural & Biological Engineering
Assistant Extension Professor 2010 – 2012
Extension Instructor 2008 – 2010
Research Associate III 2007 – 2008

Value Ag, LLC
Consultant, Cedar Valley Renewable Biomass Energy Conversion Feasibility Study 2008

University of Missouri – Columbia
Extension Commercial Agriculture Program and Division of Food Systems & Bioengineering
Extension Associate Professor 2007
Extension Assistant Professor 2001 – 2007

National Pork Board
Consultant, Comprehensive Nutrient Management Planning Pilot Project – Phase II 2003

Premium Standard Farms, Inc., Princeton, MO
Environmental Engineer 1999 – 2001

Iowa State University
Agricultural and Biosystems Engineering Department
Graduate Research Assistant 1998 – 1999

Professional Licensure

Registered Professional Engineer, Mississippi (18060)

Professional Activities and Committees

National Pork Board Swine Educators Executive Committee, Member	2014 – Present
NCCC-9 Agricultural Engineering in the NCR Multi-State Committee, Secretary	2014 – Present
Heartland Animal Manure Management Group, Steering Committee Member	2014 – Present
<i>The Professional Animal Scientist</i> , Manuscript Reviewer	2014
USDA-NIFA-AFRI Engineering Products & Processes A1521 Review Panel, Member	2014
S-1032 Improving the Sustainability of Livestock and Poultry Production in the United States Multi-State Committee, Member	2013 – Present
ASABE Professional Engineer Mentor	2013 – Present
Livestock and Poultry Environmental Learning Center, Manure Nutrient Team Leader	2013 – Present
Livestock and Poultry Environmental Learning Center, Executive Committee Member	2012 – Present
ASABE X585: <i>Animal Mortality Composting Standard</i> , Lead Developer	2013 – Present
USDA National Program 216 Panel, Ad Hoc Reviewer	2013
ASABE, Member	1994 – Present
ASABE Educational Aids Competition Category Judging Coordinator	2008, 2009, 2013 – Present
ASABE ED-208 Extension Education Committee, Chair	2011 – 2012
ASABE ED-208 Extension Education Committee, Vice Chair	2010 – 2011
ASABE ED-208 Extension Education Committee, Secretary	2009 – 2010
ASABE ED-208 Extension Education Committee, Member	2008 – Present
ASABE Educational Aids Competition Chair	2010 – 2011
ASABE SE-412 Agricultural Waste Management Committee, Chair	2010 – 2011
ASABE SE-412 Agricultural Waste Management Committee, Vice Chair	2009 – 2010
ASABE SE-412 Agricultural Waste Management Committee, Secretary	2008 – 2009
ASABE SE-412 Agricultural Waste Management Committee, Member	2001 – Present
National Pork Board Environment Committee, Science Advisor	2007 – Present
National Pork Board Extension Educators Committee, Member	2013 – Present
2010 International Symposium on Air Quality and Waste Management for Agriculture, Chair	2008-2010
Agricultural Engineering P. E. Licensing Exam Cut Score Panel, Member	2009 and 2010
Phi Kappa Phi Honor Society, Member	2008 – Present
Missouri Section ASAE, Secretary	2002 – 2005
Missouri Section ASAE, Member	2001 – 2007
2002 Mid-Central ASAE Conference, Bowling Tournament Chair	2001 – 2002
Missouri Society of Professional Engineers, Member	2004 – 2007
National Society of Professional Engineers, Member	2004 – 2007
Alpha Epsilon Honor Society, Member	1998 – Present
Journal of Dairy Science, Reviewer	2009 – 2011
Missouri Department of Agriculture Task Force on Issues Limiting Livestock Production in Missouri, Member	2005 – 2007
ASABE D384.1 Revised “As-Harvested” Manure Characteristics Standard Committee, Member	2002 – 2004
Missouri Inter-agency Technical Working Group (ITWG), Committee Chair	2003 – 2004
Missouri Inter-agency Technical Working Group (ITWG), Committee Member	2001 – 2007
Canadian Biosystems Engineering Journal, Reviewer	2003
9 th International Symposium on Animal, Agriculture, and Food Processing Wastes, Paper Reviewer	2002

Service Activities

University of Nebraska Institute of Agriculture and Natural Resources,	
<i>Dean's Extension Advisory Committee, Member</i>	2015 – Present
<i>Faculty Search Committee for Water Quality/Environmental Engineer, Member</i>	2014 – Present
<i>Faculty Search Committee for Swine Extension Specialist, Member</i>	2014 – Present
<i>Faculty Search Committee for Advanced Machinery Systems Engineer, Member</i>	2012 – 2013
Pork Quality Assurance Plus (PQA+) Nebraska State Trainer	2013 – Present
Nebraska Pork Industry Focus Team, Leader	2013 – Present
University of Nebraska Department of Biological Systems Engineering,	
<i>Facilities Committee, Member</i>	2014 – Present
<i>Social Committee, Member</i>	2012 – Present
University of Nebraska Extension Animal Manure Management Team, Co-Leader	2012 – Present
Mississippi State University	
<i>Scholarship of Outreach Committee Member</i>	2011 – 2012
Mississippi State University Division of Agriculture, Forestry and Veterinary Medicine Faculty Senate, ABE Department Senator	2011 – 2012

Grantsmanship

Total Grants Received: \$1,609,767

Total Active Grants: \$798,474

Total Pending Grants: \$500,657

Feasibility of using woody biomass as a soil amendment in the Middle Niobrara River Valley. (Pre-proposal; In Review) Rural Futures Institute. PI: **Amy Millmier Schmidt**; Collaborators: Humberto Blanco, Dennis Bauer, Richard Woollen (UNL). Requested: \$99,909.

Influence of the method and timing of land application on the persistence and retention of multiple manure constituents in soil. (In Review) National Pork Board. PI: Xu Li; Collaborators: **Amy Millmier Schmidt**, Dan Snow, Shannon Bartelt-Hunt (UNL) and John Gilley (USDA-ARS). Requested: \$60,325.

Development of swine lagoon closure procedures and supporting extension materials. (In Review) National Pork Board. PI: **Amy Millmier Schmidt**; Collaborators: Charles Shapiro, Leslie Johnson and Dan Snow (UNL). Requested: \$88,594.

Improving access to social & environmental sustainability resources for Nebraska farmers. (In Review) The Nebraska Environmental Trust. PI: **Amy Millmier Schmidt**; Collaborators: Charles Shapiro and Leslie Johnson (UNL). Requested: \$251,739 .

Mapping the pathways for effective information dissemination and education between manure nutrient management agriculture professionals. North Central Region Water Network Extension and Capacity-Building Seed Funding. PI: Erin Cortus (SDSU); co-PI's: Nichole Embertson (Whatcom Conservation District), Teng Teeh Lim (University of Missouri – Columbia), **Amy Millmier Schmidt**, Jill Heemstra and Jeffrey Jaquet (SDSU). Awarded: \$25,658.

Integrating agricultural, algal, and bioenergy systems for Nebraska: Fruition of the SUPER Loop. January 2015. Nebraska Center for Energy Sciences Research. PI: Galen Erickson; co-PI's: Yufeng Ge and **Amy Millmier Schmidt**. Awarded: \$149,948.

Antimicrobial resistance in manure-amended soil. January 2015. IANR ARD Enhanced Research Collaboration with the USMARC. PI: Amy Millmier Schmidt; co-PI: Bryan Woodbury (USMARC); Collaborators: Xu Li (UNL) and Lisa Durso (USDA-ARS). Awarded: \$79,996.

Swine manure and by-product management for environmental protection. January 2015. National Pork Board Swine Research and Education Experience. PI: **Amy Millmier Schmidt**. Awarded: \$5,000.

PEDv survivability in manure-amended soil and evaluation of lime application to soil as a PEDv biosecurity measure. December 2014. National Pork Board. PI: **Amy Millmier Schmidt**; Collaborators: Dan Miller (USDA-ARS), J. Dustin Loy, Clayton Kelling, Judith Galeota, Nathan Mueller and Kent Eskridge (UNL). Awarded: \$60,254.

Empowering UNL extension personnel to communicate science to consumers. October 2014. UNL Extension New Audience Grant. PI: Lindsay Chichester; co-PI's: Cindy Brison, Karen Cannon, Vaughn Hammond, **Amy Millmier Schmidt**, Jenny Rees, and Nancy Urbac (UNL). Awarded: \$12,500.

Evaluation of mortality composting parameters necessary for inactivation of PEDv. July 2014. Nebraska Pork Producers Association. PI: **Amy Millmier Schmidt**; Collaborators: J. Dustin Loy, Clayton Kelling, and Judith Galeota (UNL). Awarded: \$16,600.

Migration and transport vector of bioluminescent Escherichia coli O157:H7 and O26:H11 on spinach and green onions from soil treated with manure. UNL Layman Award. June 2014. PI: Amy Millmier Schmidt; co-PI: Ty Schmidt. Awarded: \$15,000.

Influence of the method and timing of land application of manure on the fate and transport of manure constituents in runoff. May 2014. National Pork Board. PI: Xu Li; Collaborators: **Amy Millmier Schmidt**, Shannon Bartelt-Hunt, Dan Snow (UNL), John Gilley (USDA-ARS). Awarded: \$88,518.

Fate of steroid hormone conjugates and E. coli from manure in soil: Potential sources of free hormones and pathogens in forages and the environment? March 2014. Nebraska Water Center. PI: **Amy Millmier Schmidt**; Collaborators: Dan Snow, Xu Li, Shannon-Bartelt Hunt (UNL). Awarded: \$20,000.

Integrated anaerobic digestion. October 2013. The Nebraska Environmental Trust. PI: Galen Erickson. Co-PI's: **Amy Millmier Schmidt**, Rick Stowell, Loren Isom, Mark Riley. Awarded: \$250,000.

XR/MEGA-10ZERO Photonic Imaging System. September 2013. University of Nebraska Agricultural Research Division Hatch Equipment Funds. PIs: Ty Schmidt and **Amy Millmier Schmidt**. Awarded: \$75,000.

On-farm Validation of the Mississippi Irrigation Scheduler Tool (MIST) for Soybean Production Systems. November 2011. Mississippi Soybean Promotion Board. PI: **Amy Millmier Schmidt**; Collaborators: Gretchen Sassenrath, Joseph Crumpton, Jeanne Schneider. Awarded: \$77,231.

Do Your Part! An Educational Program for Promoting Safe Disposal of Pharmaceuticals and Personal Care Products. February 2011. Southern Regional Water Resource Project. PI: **Amy Millmier Schmidt**. Collaborators: Michael Smolen (Oklahoma State University), Maifan Silitonga (Alcorn State University), Ashley Osbourne (University of Kentucky), Ellen Bauske (University of Georgia) and Diane Boellstorff (Texas A&M University). Awarded: \$18,999.

Prescreening/Qualitative Analysis of Pharmaceuticals in the Southern Region. February 2011. Southern Regional Water Resource Project. PI: Maifan Silitonga (Alcorn State University). Collaborators: **Amy Millmier Schmidt** (MSU), Diane Boellstorff (Texas A&M University), Jason Vogel (Oklahoma State University), Glynn Beck (University of Kentucky), Sam Dennis (Tennessee State University), Teferi Tsegaye (Alabama A&M University), Uttam Saha (University of Georgia), Edmund Buckner and Brian Haggard (University of Arkansas), Odemari Mbuya (Florida A&M University), and G.B. Reddy (North Carolina A&T State University). Awarded: \$44,997.

Web-based Mississippi Irrigation Scheduling Tool. January 2011. Specific Cooperative Agreement with USDA-ARS-Application and Production Technology Research Unit, Stoneville, MS. PI: **Amy Schmidt**. Contracted: \$62,545.

On-farm Validation of the Mississippi Irrigation Scheduler Tool (MIST) for Corn Production Systems. December 2010. Mississippi Corn Promotion Board. PI: **Amy Schmidt**; Collaborators: Gretchen Sassenrath, Lyle Pringle, Bijay Shresthra. Awarded: \$30,147.

On-farm Validation of the Mississippi Irrigation Scheduler Tool (MIST) for Soybean Production Systems. December 2010. Mississippi Soybean Promotion Board. PI: **Amy Schmidt**; Collaborators: Gretchen Sassenrath, Lyle Pringle, Bijay Shresthra. Awarded: \$64,310.

Irrigation Water Use and Sustainability in Soybean Production Systems in Mississippi. March 2010. Mississippi Soybean Promotion Board. PI: **Amy Schmidt**. Awarded: \$19,640.

2009 Mississippi 319 Waste Pesticide Disposal Program. August 2009. Mississippi Department of Environmental Quality. PI: Jimmy Bonner; Co-PI: **Amy Schmidt**. Awarded: \$225,000.

Web-based Mississippi Irrigation Scheduling Tool. June 2009. Specific Cooperative Agreement with USDA-ARS-Application and Production Technology Research Unit, Stoneville, MS. Co-PI's: Scott Samson and **Amy Schmidt**. Contracted: \$31,239.

Feasibility of Dairy Development in Southeast Missouri. July 2006. Missouri Agricultural and Small Business Development Authority. PI: Joe Horner, Collaborators: **Amy Schmidt**, Ryan Milhollin, Joe Zulovich, Barry Steevens, Charles Fulhage, John Lory, Scott Pooch. Awarded \$72,845.

Aikens Beef Finishing Operation Design – Phase II. February 2006. Upper and Middle Mississippi Valley Cooperative Ecosystems Studies Unit. PI: Charles Fulhage, Co-PI's: **Amy Schmidt** and Joseph Zulovich. Awarded \$13,690.

Missouri Swine Production School. December 2005. National Pork Board and Missouri Pork Association. PI: **Amy Schmidt**, Collaborators: Charles Fulhage, John Lory, Raymond Massey, Marcia Shannon, Tim Safranski, Tom Fangman, Ann Ulmer, Joseph Zulovich, and Rex Ricketts. Awarded \$20,000.

Aikens Beef Finishing Operation Design – Phase I. October 2005. Upper and Middle Mississippi Valley Cooperative Ecosystems Studies Unit. PI: Charles Fulhage, Co-PI's: **Amy Schmidt** and Joseph Zulovich. Awarded \$12,008.

CNMP Education Initiative. December 2003. National Pork Board. PI: Marcia Shannon, Collaborators: **Amy Schmidt**, Tim Safranski, Tom Fangman, Raymond Massey, John Lory, Joseph Zulovich, and Charles Fulhage. Awarded \$10,000.

Most Commonly Asked Questions About Pork Production and the Environment. May 2003. National Pork Board. PI: **Amy Millmier**, Collaborators: Charles Fulhage, John Lory, Marcia Shannon, Raymond Massey, Tom Fangman, Tim Safranski, and Joseph Zulovich. Awarded \$5,500.

Comprehensive Nutrient Management Planning Educational Programming for Missouri Swine Producers. December 2002. National Pork Board and Missouri Pork Association. PI: Marcia Carlson Shannon, Collaborators: Charles Fulhage, John Lory, Ray Massey, **Amy Millmier**, and Joseph Zulovich. Awarded \$20,000.

Measurement and Control of Aerial Pollutant Emissions from Swine Finishing Houses. Six-State Consortium on Animal Waste Management. June 2001. Co-PIs: **Amy Millmier**, University of Missouri – Columbia and Albert Heber, Purdue University. University of Missouri: Awarded \$83,142.

Publications

[Refereed Journal Articles]

- Mun, S., Sassenrath, G. F., **Schmidt, A.**, Lee, N., Wadsworth, M. C., Rice, B., Corbitt, J., Schneider, J. M., Tagert, M. L. M., Pote, J. W., Prabhu, R. (in press). Uncertainty analysis of an irrigation scheduling model for water management in crop production. To appear in *Agricultural Water Management*.
- Sassenrath, G. F., Schneider, J. M., **Schmidt, A.**, Corbitt, J. Q., Halloran, J. M., Prabhu, R. (2013). Testing Gridded NWS 1-day Observed Precipitation Analysis in a Daily Irrigation Scheduler. *Agricultural Sciences*, 4, 621-627.
- Schmidt, A.M.**, J. D. Davis, J. L. Purswell, Z. Fan, and A. S. Kiess. 2013. Spatial variability of heating profiles in windrowed poultry litter. *J App Poultry Res*. 22:319-328.
- Sassenrath, G.F., Schneider, J.M., **Schmidt, A.M.**, Silva, A.M. 2012. Quality assurance of weather parameters for determining daily evapotranspiration in the humid growing environment of the Mid-South. *Mississippi Academy of Science*. 57:178-192.
- Ni, J-Q, A.J. Heber, T.T. Lim, P.C. Tao, and **A.M. Schmidt**. 2008. Methane and carbon dioxide emission from two pig finishing barns. *J. Environ. Qual.* 37:2001-2011.
- Heber, A.J., J.-Q. Ni, T.-T. Lim, **A.M. Schmidt**, J. A. Koziel, P.C. Tao, D.B. Beasley, S.J. Hoff, R.E. Nicolai, L.D. Jacobson, and Y. Zhang. 2006. Quality assured measurements of animal building emissions: Gas concentrations. *AWMA Journal* 56:1472-1483.
- Heber, A.J., T.-T. Lim; J.-Q. Ni; P.C. Tao, **A.M. Schmidt**, J.A. Koziel, S.J. Hoff, L.D. Jacobson, Y. Zhang, and G.B. Baughman. 2006. Quality assured measurements of animal building emissions: Particulate matter concentrations. *AWMA Journal* 56:1642-1648.
- Lory, J., R. Massey, J. Zulovich, J. Hoehne, **A. Schmidt**, M. Shannon and C. Fulhage. 2004. An Assessment of nitrogen-based manure application rates on 39 US swine operations. *J. Environ. Qual.* 33:1106-1113.
- Lory, J., R. Massey, J. Zulovich, J. Hoehne, **A. Schmidt**, M. Shannon and C. Fulhage. 2004. Feasibility and costs of phosphorus application limits on 39 US swine operations. *J. Environ. Qual.* 33:1114-1123.
- Millmier, A.**, C. Hurburgh, C. Fulhage, J. Hattey, and H. Zhang. 2000. Near-Infrared Sensing of Manure Nutrients. *Transactions of the ASAE* 43(4).

[Extension Publications]

- Chichester, L., Walz, T., Tonn, S., Randle, R., Berger, A., Stalker, L., **Schmidt, A.**, Johnston, B., Plugge, B., Anderson, B., Johnson, B. B., Treffer, B., Redfearn, D., Aiken, J., Boxler, D., Griffin, D., Bauer, D., Erickson, G., Jenkins, J. D., Parsons, J., Bradshaw, J., Jones, J., Jansen, J., Jenkins, K., Brooks, K., Johnson, L., Drewnoski, M., Luebbe, M., Spangler, M., Stockton, M., Saner, R., Funston, R., Rasby, R., Eirich, R., Wilson, R., Niemeyer, S., Young, S., Barrett, T., Mader, T. (2014). UNL BeefWatch, Troy Walz, Lindsay Chichester (Ed.), Lincoln, Nebraska: *UNL BeefWatch* electronic newsletter. <http://newsroom.unl.edu/announce/beef>
- Watson, A. K., Schreck, A. L., **Schmidt, A.**, Klopfenstein, T., Erickson, G. (2014). Anaerobic Digestion of Feedlot Manure. (pp. 115-116). Lincoln, NE: 2015 *Nebraska Beef Cattle Report*. The Board of Regents of the University of Nebraska. <http://beef.unl.edu>
- Schmidt, A.M.** (2014). EPA's Proposed Waters of the U.S. (WOTUS) Rule. (October 2014 ed.). *BeefWatch* Newsletter.

- Schmidt, A.M.** (2014). Manure Spreader Calibration Improves Nutrient Use Efficiency. (October 2014 ed.). *BeefWatch* Newsletter.
- Schmidt, A.M.** (2014). Proposed Changes to "Waters of the United States" Definition. (June 2014 ed.). *BeefWatch* Newsletter.
- Schmidt, A.M.** (2014). How Can YOU Educate Consumers About Agriculture? (March 2014 ed.). *BeefWatch* Newsletter.
- Schmidt, A.M.** (2014). UNL Extension Talks Agriculture Through Social Media Outlets. (January 2014 ed.). *BeefWatch* Newsletter.
- Schmidt, A.M.** (in press). Preparing for a Site Visit. (pp. 4). Des Moines, IA: Pork Information Gateway. U.S. Pork Center of Excellence.
- Schmidt, A.M.** 2013. Managing Earthen Manure Storage Basins During Drought. University of Nebraska Extension Circular 719.
- Schmidt, A.M.** 2013. Safe Disposal of Veterinary Pharmaceuticals. Pork Information Gateway Fact Sheet, HOW-10-06-02.
- Schmidt, A.M.** 2013. Feedlot Abandonment Recommended Procedures (Revision). University of Nebraska NebGuide G1293.
- Schmidt, A.M.** 2013. Abandonment Planning for Earthen Manure Storages, Holding Ponds, and Anaerobic Lagoons (Revision). University of Nebraska NebGuide G1370.
- Schmidt, A.M.** 2013. Sludge Management for Anaerobic Lagoons and Runoff Holding Ponds (Revision). University of Nebraska NebGuide G1371.
- Schmidt, A.M.** 2013. Estimating a Whole Farm Nutrient Balance: Spreadsheet Instructions (Revision). University of Nebraska EC 189.
- Schmidt, A.M.** 2013. Manure Nutrient and Land Requirement Estimator: Spreadsheet Instructions (Revision). University of Nebraska EC 190.
- Schmidt, A.M.** (2013). Emergency Management Planning for Livestock Operations. Lincoln, NE: UNL BeefWatch Newsletter. UNL Beef Spire. <http://newsroom.unl.edu/announce/beef/2754/15387>
- Schmidt, A.M.** (2013). Large Animal Mortality Composting Demonstration. Lincoln, NE: UNL BeefWatch Newsletter. UNL Beef Spire. <http://newsroom.unl.edu/announce/beef/2754/15400>
- Schmidt, A.M.** (2013). Composting Large Animal Carcasses. Lincoln, NE: UNL BeefWatch Newsletter. UNL Beef Spire. <http://newsroom.unl.edu/announce/beef/2563/14861>
- Schmidt, A.M.** (2013). Managing Earthen Manure Storage Basins During Drought. Lincoln, NE: BeefWatch Newsletter. UNL Beef Spire. <http://newsroom.unl.edu/announce/beef/2563/14870>
- Schmidt, A.M.** (2013). Safe Food Systems the Result of Science, Monitoring. In Strategic Discussions for Nebraska., Mary Garbacz, EdMedia (Ed.), (vol. 4, pp. 70-71). Lincoln, NE: Nebraska: The Epicenter of Global Beef Production. UNL College of Agricultural Sciences and Natural Resources.
- Barrett, J., **A.M. Schmidt** and J. Camp. 2012. Testing and Understanding Residential Private Well Drinking Water Analyses in Mississippi. Mississippi State University Extension Service.

- Schmidt, A.M.**, E. Bauske, A. Osborne, M. Silitonga, R. Sheffield, J. Bonner, M. Smolen, J. Vogel, S. Dennis, and D. Boellstorff. 2012. Pharmaceutical Disposal Education Website. www.DontDrugYourDrain.com.
- Schmidt, A.M.** 2011. Chemigation (Revision). Mississippi State University Extension Service. Publication number 1551.
- Schmidt, A.M.** 2011. Irrigation Facts and Figures (Revision). Mississippi State University Extension Service. Publication number F 804.
- Schmidt, A. M.**, G. Sassenrath, J. Crumpton, B. Rice. 2011. Water Conservation and Water Management Website. www.agwater.msucare.com.
- Oldham, L., and **A. Schmidt**. 2011. Operating an Environmentally Compatible Livestock Operation. Mississippi State University Extension Service. Publication number 2658.
- Sassenrath, G.F., D.K. Fisher, H.C. Pringle, S. Samson and **A.M. Schmidt**. 2010. Irrigation Scheduling for Humid Environments – Improving Water Management, Crop Performance and Economic Return. USDA-ARS Crop Production Systems Fact Sheet No. 2010-003. November 2010.
- Snyder, R.G. and **A.M. Schmidt**. 2010. Fertigation: The Basics of Injecting Fertilizer for Field-Grown Tomatoes. Mississippi State University Extension Service. Publication number 2037.
- Schmidt, A.M.** 2008. Safe Disposal of Medications and Personal Care Products. Mississippi State University Extension Service. Publication number 1844.
- Lory, J., R. Massey, **A. Schmidt**, M. Shannon. 2007. Optimizing Fertilizer Value of Manure from Slurry Hog Finishing Operations. MU Guide 9334.
- Schmidt, A.M.** Controlling Odors on Your Livestock Operation: A Producer’s Checklist for Good Stewardship. University of Missouri Extension Publication.
- Schmidt, A.M.** “EPA Air Compliance Agreement – What Missouri Producers Need to Know” Producer Fact Sheet (1 page). Developed by: University of Missouri Commercial Agriculture Program and Missouri Department of Natural Resources. March 2005.
- Schmidt, A.M.** “EPA Air Compliance Agreement – What Missouri Producers Need to Know” Producer Information Guide (5 pages). Developed by: University of Missouri Commercial Agriculture Program and Missouri Department of Natural Resources. March 2005.
- “Wet Weather Emergency Lagoon Management Practices” Fact Sheet. Developed by: University of Missouri Commercial Agriculture Program, Missouri Department of Natural Resources, and Missouri Department of Agriculture. January 2005.
- Schmidt, A.M.** and A. J. Heber. 2004. Dust, Odor and Gas Control in Swine Finishing Barns Through Oil Sprinkling. University of Missouri Extension Publication G 2530.

[Conference Proceedings]

- Schmidt, A.M.**, G.F. Sassenrath, J. Crumpton, J. Corbitt, B. Rice, H. van Riessen, R. Thornton, R. Prabhu, J. Pote, C. Wax, and M. L. Tagert. 2013. Development and delivery of educational tools for irrigation water management and on-farm implementation of the MIST. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Sassenrath, G.F., **A. M. Schmidt**, J. Schneider, J. Crumpton, B. Rice, H. van Riessen, R. Thornton, R. Prabhu, J.

- Corbitt, J. Pote, and C. Wax. 2013. Development of the Mississippi Irrigation Scheduling Tool – MIST. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Sassenrath, G.F., **A. M. Schmidt**, J. Schneider, J. Crumpton, B. Rice, H. van Riessen, R. Thornton, R. Prabhu, J. Corbitt, J. Pote, and C. Wax. 2013. Testing the accuracy of National Weather Service spatially gridded radar precipitation estimates for determining field-level rainfall amounts. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Rice, B., H. van Riessen, J. Crumpton, , G.F. Sassenrath, **A. M. Schmidt**, J. Schneider, R. Thornton, R. Prabhu, J. Corbitt, J. Pote, and C. Wax. 2013. Implementation of the Mississippi Irrigation Scheduling Tool in a dynamic web-based format. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Prabhu, R., G.F. Sassenrath, **A. M. Schmidt**, J. Crumpton, B. Rice, H. van Riessen, R. Thornton, J. Corbitt, J. Pote, and C. Wax. 2013. Uncertainty, calibration and validation of the Mississippi Irrigation Scheduling Tool model. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Sassenrath, G.F., **A. M. Schmidt**, J. Corbitt, J. Crumpton, B. Rice, H. van Riessen, R. Thornton, R. Prabhu, J. Schneider, J. Pote, and C. Wax. 2013. On-farm testing and potential improvements in water management using the MIST. American Society of Agricultural and Biological Engineering Annual Meeting, Kansas City, MO, July 21-24, 2013.
- Schmidt, A.M.**, G.F. Sassenrath, J. Crumpton, B. Rice. and J. Schneider. 2012. MIST: A Web-Based Irrigation Scheduling Tool for Mississippi Crop Production. American Society of Agricultural and Biological Engineering Annual Meeting, Dallas, TX, July 29 – August 1, 2012.
- Rice, B., J. Crumpton, **A. Schmidt**, G. Sassenrath, and J. Schneider. 2012. A web-based irrigation scheduling tool for Mississippi. Mississippi Water Resources Conference, Jackson, MS, April 3-4, 2012.
- Schmidt, A.M.**, G.F. Sassenrath, J. Schneider, J. Crumpton, B. Rice. 2011. A web-based irrigation scheduling tool for Mississippi. American Society of Agricultural and Biological Engineering Annual Meeting, Louisville, KY, August 7-10, 2011.
- Schmidt, A.M.**, G.F. Sassenrath, H.C. Pringle, D.K. Fisher, S. Samson and B. Shrestha. 2011. Development of Irrigation Scheduling Tools for the Humid, High-rainfall Environment of the Lower Mississippi Delta. 2011 Land Grant / Sea Grant National Water Conference, Washington, D.C., January 30 – February 1, 2011.
- Sassenrath, G.F., **Schmidt, A.M.**, Pringle, H.C., Shrestha, B., Fisher, D.K. 2011. Mississippi web-based irrigation scheduling tool. National Cotton Council Beltwide Cotton Conference. Atlanta, GA. Jan. 4-9, 2011. p. 7-9. 2011.
- Sassenrath, G.F., H.C. Pringle, D.K. Fisher, S. Samson, **A.M. Schmidt**, and B. Shrestha. 2010. Development of Irrigation Scheduling Tools for the Humid, High-rainfall Environment of the Lower Mississippi Delta. ASABE Paper No. IRR10-9797. ASABE 5th National Decennial Irrigation Conference, Phoenix, AZ, December 5-8, 2010.
- Sassenrath, G.F., **A.M. Schmidt**, J. Schneider, H.C. Pringle. 2010. Parameterizing the FAO-56 Penman Monteith Evapotranspiration calculation for alluvial soils of the lower Mississippi River alluvial flood plain. Agronomy Society of America Annual Meeting, Pittsburg, PA.
- Schmidt, A.**, J. Davis, J. Purswell, Z. Fan and A. Kiess. 2010. Analysis of the Effect of Spatial and Temporal Sampling Densities on Accuracy of Predicting the Heating Profile in Windrowed Broiler Litter. ASABE Paper

- No. 711P0510cd. ASABE International Symposium on Air Quality and Manure Management for Agriculture, Dallas, TX, September 12-16, 2010.
- Schmidt, A.**, J. Davis, J. Purswell, and A. Kiess. 2010. Effect of Moisture Content on the Heating Profile in Windrowed Broiler Litter. ASABE Paper No. 711P0510cd. ASABE International Symposium on Air Quality and Manure Management for Agriculture, Dallas, TX, September 12-16, 2010.
- Schmidt, A.**, J. Davis, J. Purswell, A. Kiess, W. Batchelor. 2009. Standard Methodology for Monitoring the Self-heating Profile in Windrowed Poultry Litter. ASABE Paper No. 095916. ASABE Annual Meeting, Reno, NV, June 21-14, 2009.
- Fulhage, C., **A. Schmidt**, and J. Lory. 2005. Long Term Sludge and Nutrient Accumulation in Swine Lagoons – A Case Study. 2005 Animal Waste Management Symposium. North Carolina State University Animal and Poultry Waste Management Center. Raleigh, North Carolina. October 5-7, 2005.
- Heber, A.J., P.-C. Tao, J.-Q. Ni, T.-T. Lim, **A.M. Schmidt**. 2005. Air emissions from two swine finishing buildings with flushing: ammonia characteristics. Oral presentation at the Seventh International Livestock Symposium, Beijing, China, May 17-19.
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Honors and Awards

Leadership Resources Success Award	2014
UNL Institute of Agriculture and Natural Resources "Faces to Watch"	2013
Epsilon Sigma Phi Early Career Service State Award <i>For exemplary service to extension through environmental research and education to improve agricultural sustainability and profitability and protect public health</i>	2011
Mississippi State University State Pride Award for Faculty Excellence	2011
ASABE Conference Chair Recognition Award <i>2010 International Symposium on Air Quality and Manure Management for Agriculture</i>	2011
ASAE Outstanding Paper Award <i>"Near Infrared Sensing of Manure Nutrients" Transactions of the ASAE, Vol. 43, No. 4</i>	2002
USDA-NRCS Certificate of Appreciation <i>For assistance in training NRCS personnel and third party vendors on nutrient management in one-on-one and group sessions</i>	2001
Epsilon Sigma Phi State Team Award <i>For participation in a project in response to a National Pork Producers Council invitation to help agricultural producers understand the implications of the proposed EPA regulations on animal and crop agriculture in the United States</i>	2001