Joe E. Muller
Associate Professor
Department Agricultural and Industrial Sciences
College of Arts and Sciences

Degrees Earned

Ph.D., Agricultural Education, Iowa State University, Ames, IA. December 1990

Ph.D. Dissertation Topic: "An Analysis of the Agricultural Education B.S. Graduates from 1981-1989 and Their Perceptions of the Teacher Education Program at Iowa State University".

Ed.S. Vocational Education, University of Arkansas, Fayetteville, AR. May 1990.

M.S., Agricultural Education, University of Arkansas, Fayetteville, AR. May 1987.

B.S., Agricultural Education, Oklahoma State University, Stillwater, OK. May 1974.

Professional Licensure and Certifications

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Kingman, D. M., Muller, J.E. and Nelson, K. *Evaluation of a plastic grain engulfment rescue device*. Journal of Ag Systems Technology, and Education. Vol. 22. June 2007

Ullrich, D. R., Pavelock, D., Muller J. E., and Harrell, W. R. *Student Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show* [Electronic version]. Journal of Southern Agricultural Education Research, 55(1), 2005

Muller, J and R. Tidwell *Is "Agricultural Electronics" Being Taught as Part of Your Curriculum?* The Agricultural Education Magazine: 69 (1), 1997

Muller, J. "*What's Not Changing at the Agricultural Services Workplace?"* The Agricultural Education Magazine: 68 (1), 1995

Muller, J. and W. Miller. *Are The Better-Qualified Agriculture Science Instructor Candidates Really Leaving Or Not Entering The Teaching Profession?* Journal of Agricultural Education. 34 (4), 1993

Miller, W., Trede, L., Bekkum, V., and J. Muller. *The Effect of Student Characteristics and Teaching Techniques on Microcomputer Instruction in Agricultural Mechanization*. The Journal of Agricultural Mechanization. 4 (2), 1989

Books

Muller, J., Braker, P., and J. Rolloff. *Farm Equipment Curriculum Guide and Instructor's Material*, (457 pp.) Arkansas State Department of Vocational and Technical Education; and Agricultural and Extension Education Department, University of Arkansas. 1988

Muller, J., Braker, P., and J. Rolloff. *Farm Power Curriculum Guide and Instructor's Material*, (951 pp.) Arkansas State Department of Vocational and Technical Education; and Agricultural and Extension Education Department, University of Arkansas. 1987

Chapters

Muller, J. E., et. al. *Mechanized Agricultural Systems CDE's Handbook - 2007* (IMS Catalog No. 4512). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, J. E., et. al. *Mechanized Agricultural Systems CDE's Handbook – 2006* (IMS Catalog No. 4511). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, J. E., et. al. *Mechanized Agricultural Systems CDE's Handbook – 2005* (IMS Catalog No. 4510). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, Joe E., et.al. *Mechanized Agricultural Systems CDE's Handbook - 2004* (IMS Catalog No. 4509). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, J. E., et. al. *Mechanized Agricultural Systems CDE's Handbook – 2003* (IMS Catalog No. 4508). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, J. E., et. al. *Mechanized Agricultural Systems CDE's Handbook – 2002* (IMS Catalog No. 4507). College Station, TX: Texas A&M University, Instructional Materials Service.

Muller, Joe E., et.al. Mechanized Agricultural Systems CDE's Handbook - 2001 (IMS Catalog No. 4506). College Station, TX: Texas A&M University, Instructional Materials Service.

Proceedings

Largent, J., Kingman, D. M., Muller, J. E., Pavelock, D. Kelley, S. F., and Ullrich, D. R. *Demographics and extracurricular involvement of students participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show*. 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentations, [Published Proceedings], Indianapolis, IN., October 2007

Largent, J., Kingman, D. M., Muller, J. E., Pavelock, D. Kelley, S. F., and Ullrich, D. R. *Demographics and extracurricular involvement of students participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show*. 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentations [Abstract], Indianapolis, IN., October 2007

Ullrich, D. R., Pavelock, D., Muller J. E., and Harrell, W. R.. *Student Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show* [CD-Rom]. Proceedings of Southern Agricultural Education Research Conference. Little Rock, AR. (cira 11 manuscript pages), 2005

Muller, Joe E, Doug Ullrich, Dwayne Pavelock, and William R. Harrell. *"Student Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Project Show"* Proceedings of 22nd Annual National Agricultural Mechanics Professional Development Seminar. Louisville, Kentucky

Artistic Performances

Artistic Exhibitions

Research Monographs and Technical Reports

Vodehnal, Joshua; Robert Lane; Stanley Kelly; and Joe Muller, Technical Paper. Nutritional Quality of Sliced vs. Unsliced Bermudagrass (Cynoduon dactylon) and Peal Millet (Pennisetum typhoides) Round Bales.

Lane, B., J. E. Muller, S. Kelley, and E. D. Grahmann. Deterioration and Cattle Preference of Sliced and Un-sliced Bales in East Texas. Abstract of on-going research project sent to Dean Morrell, Marketing Manager, Hay Packaging Division and Dave Murdock, of CNH Corporation for use in national and international marketing, promotion, and training materials of their product.

Darden, Jr., Henry H., W.R. Harrell, S.F. Kelley, and J.E. Muller. (2003) Master's Thesis, "The Use of Lactobacillus (In Yogurt) as a Factor in the Control of Enteritis in Fryer Rabbit Production. Sam Houston State University

Muller, Joe E. and W. R. Harrell. (1990-2007) Co-author of numerous materials National Agricultural Mechanics Career Development Events. Sam Houston State University

Muller, J. and W. R. Harrell (1998) Gooseneck Stock Trailer Plans, Instructional Materials Service, Texas A&M University.

Muller, J. and D. Kingman (1997) Gas Arc Welding Principles and Procedures, (28 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and D. Kingman (1997) Oxy-fuel Cutting and Welding Principles and Procedures, (36 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1997) Arc Welding Principles and Procedures, (36 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1997) Plasma Arc Cutting and Welding and Procedures, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1996) Installing, Servicing, and Repairing Electronic Equipment, (32 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby (1995) Applied Mathematics Review, (8 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1995) Applying Ohm and Kirchoff's Laws, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1995) Safe Use of Electrical and Electronics Measurement and Test Equipment, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1995) Desoldering and Soldering Electrical Connections, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1995) Operation and Use of Radio Wave, Laser, and Fiber Optic Equipment, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1995) Integration of Electronic Systems in Various Agricultural Applications, (28 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1995) Utilizing Wiring Diagrams and Schematics as a Tool in the Installation, Service, and Repair of Electronic Equipment, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1995) Careers in Agricultural Electronics, (8 pp.) Instructional Materials Service, Texas A&M University.

Muller J. (1994) Operation and Use of Semiconductors, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1994) Operation and Use of Transistors and Integrated Circuits, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1994) Operation and Use of Photonic-Semiconductor Components, (8 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1994) Use of Electronic Impulses to Transfer Information, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1994) Operation and Use of Sensors, Transducers, and Switches to Generate Electronic Impulse Signals, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1994) Operation and Use of Impulse Signal Conditioners, Microprocessors, and Data Storage Devices, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kirby. (1994) Operation and Use of Actuators and Displays, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby (1994) Electricity and How It is Generated, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1994) Resistance and Capacitance in Electrical Circuits, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1994) Applied Magnetism and Electromagnetic Induction, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1994) Curriculum Guide for Agriscience 324 Agricultural Electronics, (20 pp.) Instructional Materials Service, Texas A&M University, and Texas Education Agency.

Muller, J. (1993) Using the Farm or Builder's Level, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1993) Basic Principles and Safe Use of Electricity, (28 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1993) Placing, Finishing and Curing Quality Concrete, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and H. Kerby. (1993) Planning, Building and Maintaining Barbed and Woven Wire Fences, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and D. Krobot. (1993) Soldering Principles and Procedures, (20 pp.) Instructional Materials Service, Texas A&M University.

Krobot, D. and J. Muller. (1993) Planning, Building and Maintaining Electric Fences, (20 pp.) Instructional Materials Service, Texas A&M University.

Krobot, D. and J. Muller. (1992) Planning, Building and Maintaining Privacy, Residential and Commercial Fences, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J., Green, B., and D. Krobot. (1992) Identifying and Safely Using Fasteners, (24 pp.) Instructional Materials Service, Texas A&M University.

Krobot, D. and J. Muller. (1992) Selecting Paints and Preservatives, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green. 1992) Bearings and Seals, (12 pp.) Instructional Materials Service, Texas A&M University.

Krobot, D. and J. Muller. (1992) Safely Applying Paints and Preservatives, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green. (1992) Identifying and Safely Using Power Tools, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J., Green, B., and D. Krobot. (1992) Computing a Bill of Materials, (8 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1992) Planning Buildings and Selecting Equipment, (12 pp.) Instructional Materials Service, Texas A&M University.

Green, B. and J. Muller. (1992) Identifying and Selecting Wood and Other Building Materials, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1992) Diagnosing Engine Operating Conditions, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green. (1992) Construction of Agricultural Structures, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1992) Small Engine Safety Equipment Regulations, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1992) Identifying and Selecting Concrete and Masonry Building Materials, (8 pp.) Instructional Materials Service, Texas A&M University.

Green, B. and J. Muller (1992) Working Safely in Agricultural Mechanics Related Occupations, (8 pp.) Instructional Materials Service, Texas A&M University.

Green, B. and J. Muller (1992) Identifying and Safely Using Hand Tools, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green (1992) Planning Concrete Construction, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green (1992) Installing Electrical Circuits and Equipment, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1992) Planning Electrical Systems, (28 pp.) Instructional Materials Service, Texas A&M University.

McHam, C. and J. Muller (1992) Soil and Water Management, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and B. Green (1992) Curriculum Guide for Agribusiness 121 CVAE/VEH Agricultural Mechanics, (35 pp.) Instructional Materials Service, Texas A&M University, and Texas Educational Agency.

Muller, J. (1991) Principles of Concrete and Masonry Construction, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Planning and Mixing Quality Concrete, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Reinforcing, Placing, Finishing, and Curing Quality Concrete, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Service of Tires and Wheels, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Planning Agricultural Structures, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Selection of Building Materials, (16 pp.) Instructional Materials Service, Texas A&M University.

Schmalriede, R. and J. Muller (1991) Importance of Agricultural Mechanics to American Agriculture, (8 pp.) Instructional Materials Service, Texas A&M University.

Schmalriede, R. and J. Muller (1991) Metal Technology and Weld Quality, (12 pp.) Instructional Materials Service, Texas A&M University.

Schmalriede, R. and J. Muller (1991) Land Measurement and Legal Descriptions, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and C. McHam. (1991) Planning Home and Farm Water Systems, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J., McHam, C., and R. Schmalriede. (1991) Maintenance of Agricultural Tractors and Equipment, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J., McHam, C., and R. Schmalriede. (1991) Safe Operation of Agricultural Tractors and Equipment, (20 pp.) Instructional Materials Service, Texas A&M University.

Muller, J., Searcy, S. and R. Schmalriede. (1991) Applying Electronics, Robotics and Artificial Intelligence to Agricultural Mechanics, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and R. Schmalriede. (1991) Principles of Engine Operation, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and R. Schmalriede. (1991) Operation and Service of Power Trains, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and R. Schmalriede. (1991) Operation and Service of Engine Cooling Systems, (12 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and R. Schmalriede. (1991) Using Management Principles in the Selection of Agricultural Tractors and Equipment, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. and R. Schmalriede. (1991) Principles of Electricity, Electronics, Magnetism and Electromagnetic Induction, (24 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Electric Motor Controls, (16 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Land Leveling, (8 pp.) Instructional Materials Service, Texas A&M University.

Muller, J. (1991) Curriculum Guide for Agribusiness 421: Agricultural Power and Machinery, (24 pp.) Instructional Materials Service, Texas A&M University, and Texas Educational Agency.

Muller, J. (1991) Curriculum Guide for Agribusiness 422: Agricultural Mechanics, (24 pp.) Instructional Materials Service, Texas A&M University, and Texas Education Agency.

Muller, J. and others. (1991) Curriculum Guide for Agribusiness 501: Agricultural Cooperative Training, (70 pp.) Instructional Materials Service, Texas A&M University, and Texas Education Agency.

Muller, J. (1991) Cleaning Agricultural Equipment and Structures and Applying Paints or Other Preservatives, (16 pp.) Instructional Materials Service, Texas A&M University.

Funded External Grants

Muller, J. E., Kingman, D. M., Pavelock, D., and Ullrich, D. R. Agricultural Mechanization Certification Workshop. Austin, TX: Texas FFA Foundation. $25,998.00. January 1-June 30, 2007.

Muller, J. E., and Kingman, D. M., No-cost lease of CNH biodiesel tractor. New T95A was provided by CNH and used for testing biodiesel fuels. 2007

Muller, Joe E., Billy R. Harrell, Stanley F. Kelly, Marcy M. Beverly and Robert A. Lane. "Study of Bale Density, Average Daily Gain, and Animal Preference Of Summer Perennials and Annuals Packaged in Variations of Large Round Bales and Feed in East Texas Environments." Approved by New Holland North America, Inc. in November 2003. New Holland provided in-kind donation of all supplies and yearly use of a new round baler. (Approximately $30,000.00 annually.) Ongoing longitudinal study of 3 to 5 years duration.

Muller, Joe E and Billy R. Harrell. "Grant for a workshop to certify Texas Agricultural Science Teachers to teach General Agricultural Mechanics courses in Texas secondary schools." Funded by Texas Education Agency $25,998 for Summer 2005

Muller, Joe E and Billy R. Harrell. "Grant for a workshop to certify Texas Agricultural Science Teachers to teach General Agricultural Mechanics courses in Texas secondary schools." Funded by Texas Education Agency $30,000 for Summer 2004

Peer-Review Presentations/Posters

Largent, J., Kingman, D. M., Muller, J. E., Pavelock, D. Kelley, S. F., and Ullrich, D. R. "Demographics and extracurricular involvement of students participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show." 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentation, [Poster Presentation], Indianapolis, IN., 2007.

Largent, J., Kingman, D. M., Muller, J. E., Pavelock, D. Kelley, S. F., and Ullrich, D. R. "Demographics and extracurricular involvement of students participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show." 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentation, [Presentation] Indianapolis, IN., 2007.

Ullrich, D. R., Pavelock, D., Muller J. E., and Harrell, W. R. "Student Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show" [research session presentation]. Southern Agricultural Education Research Conference. Little Rock, AR., 2005.

Muller J. E., "Residual Soil Compaction Caused By Wheel Compared To Track (Rubber Belted) Tractors." Presentation given at the 2004 International Meeting of the American Society of Agricultural Engineers, Ottawa, Canada, 2004.

Muller J. E., "Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show." Presentation given at the 2004 International Meeting of the American Society of Agricultural Engineers, Ottawa, Canada, 2004

Muller J. E., "Do You Teach A General Ag Mech Curriculum And Then Polish A Team Or Does The Yearly Content Of The National Ag Mech CDE Drive Your Local Ag Mech Curriculum?." Presentation given at the 2004 National FFA Convention/Ag Mechanics CDE Committee instructors meeting of teams participating in the National FFA AG Mechanics CDE, Louisville, KY., 2004

Muller J. E., "Comparison of Soil Compaction Caused by Wheel Compared to Track (Rubber Belted) Tractors." Presentation given at the National Ag Mechanics Committee Blue Ribbon Seminar, Louisville, KY., 2004

Muller J. E., "Student Demographics and Safety Education of Students Participating in the 2003 Houston Livestock Show and Rodeo Project Show." Seminar presented at the 22nd Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentation. Louisville, KY., October, 2003

Muller J. E. "Does the National Ag Mechanics CDE Match the Ag Mechanics Curriculum Taught in the Nation's High Schools. Presentation to the National Ag Mechanics Committee Meeting and instructors of the teams participating in the National FFA Ag Mechanics CDE. Louisville, KY., October, 2003.

Muller, J. and W. Miller. "Agricultural Education Graduates: Comparisons of Academic Ability and Teacher Preparation of Those Who Teach and Those Who Do Not." Research paper presented at National Agricultural Education Research Meeting. 1991

Muller, J. and W. Miller. "Teacher Preparation in Agriculture: A Question of Quality." Research paper presented at Central States Research Conference in Agricultural Education. 1991

Muller, J. and J. Rolloff. "Competency Based Farm Power and Equipment Curriculum Guides for Arkansas." Research paper presented at Southern Region Agricultural Education Conference. 1987

Work or Professional Experiences

Sam Houston State University, Huntsville, TX Department of Agricultural Sciences and Industrial Sciences Associate Professor of Agricultural Mechanization (100% teaching appointment)	1998 to present
Texas A&M University, College Station, TX Agricultural Education Department Instructional Materials Service Continuing Education Assistant Professor Agricultural Mechanics Curriculum Specialist	1990 to 1998
Iowa State University, Ames, IA Joint appointment in Agricultural Engineering and Agricultural Education and Studies Departments Adjunct Instructor	1989 to 1990
Iowa State University, Ames, IA Agricultural Education and Studies Department Research and Teaching Assistant	1988 to 1989
Mangum Equipment Co., Mangum, OK Farm Equipment Service Technician	1984 to 1985
Yates Implement Co., Altus, OK General Service Manager	1979 to 1984
Altus Public Schools, Altus, OK Vocational Agriculture Instructor	1976 to 1979

Honors and Awards

Who's Who Among America's Teachers 2004

Honorary American FFA Degree 1999. Presented by National FFA Organization.

Outstanding Research Paper Presentation Award 1991. Presented at National Agricultural Education Research Meeting, Los Angeles, CA.

Outstanding Student Teacher Award 1974. Presented by Oklahoma State University Agricultural Education Department.

Most Likely to Succeed Award 1970. Presented by Wilson High School Faculty.

Gamma Sigma Delta

Alpha Tau Alpha

Honorary Chapter Farmer Degree Presented by Altus, OK. and Bryan, TX. FFA Chapters.

Other Competencies