

John J. McGlone, Ph.D.

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Professor and Director, Pork Industry Institute
Department of Animal Science and Food Technology
Joint Appointment in Department of Cell Biology & Anatomy
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Current Activities and Assignments

Current approximate division of time 37.5% Teaching, 62.5% Research,
50% Research & 50% Teaching during 9 months; 100% Research in summer
Professor of Animal Science and Cell Biology & Anatomy (joint appointment in Texas Tech
University Health Sciences Center)
Director of Pork Industry Institute for Research and Education
Member of the following committees:
Neuroscience Advisory Board (TTU inter-departmental program)
Animal Care, Use and Standards Committee, FASS (USA)
Advisor to National Pork Board Animal Welfare Committee (USA)
Member Board of Trustees AAALAC, International, Elected to Executive Committee
Emeritus member AAALAC, International Council on Accreditation
Member FDA Center for Veterinary Medicine Advisory Committee
Member AVMA Task Force on Sow Housing
Member National Academy of Sciences panel on Transportation of Laboratory Animals
Consultant to pig production units & biotechnology firms to improve efficiency & welfare;
Founder of FACTA, LLC (www.factallc.com)
Recent Teaching Activities:
Swine Production (Fall semester, senior level)
Contemporary Issues in Animal Ag. (Honors Course, undergraduate and graduate)
Honors Anatomy & Physiology of Domestic Animals
Topics in Stress, Behavior and Welfare (Distance course taught jointly TTU, U IL, ISU)

Past Appointments

Assistant Professor, Animal Science Department, Univ. of Wyoming	1981-1984
Assistant Professor of Animal Science Texas Tech University	1984-1989
Associate Professor of Animal Science Texas Tech University	1989-1994
Director, Pork Industry Institute, Texas Tech University	1991-present
Professor of Animal Science, Texas Tech University	1994-present

Summary of Activities

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EDUCATION

Washington State University, Pullman, Washington Animal Science	B.S. 1977
Washington State University, Pullman, Washington Animal Science, emphasis on Behavior and Physiology, Keith W. Kelley, advisor	M.S. 1979
University of Illinois, Urbana, Illinois Animal Science, emphasis in Ethology and Neuroscience Co-advisors: Stan Curtis (Animal Sciences Dept.) and Ed Banks (Ecology, Ethology and Evolution Dept.)	Ph.D. 1981

SOCIETY MEMBERSHIPS AND HONORS

American Society of Animal Science

Animal Behavior Society

International Society for Applied Ethology

Society for Neuroscience

American Association for Laboratory Animal Science

American Association for Advancement of Science

Elected to Gamma Sigma Delta (Agricultural Research and Scholarship Society)

Sigma Xi (Research Society)

Member New York Academy of Sciences

Undergraduate Research Award, 1976 (given to undergraduate students at Washington State University who participated in research, including publishing)

Presidential Academic Achievement Award, 1990 (given to TTU faculty who excel in both teaching and research)

Outstanding Researcher, College of Agricultural Science, TTU, 1992

ASAS Animal Management Award, 2002

SIGNIFICANT ACCOMPLISHMENTS

- M.S. and Ph.D. research resulted in 8 refereed publications; awarded Ph.D. in 1981.
- Recipient of Harry Frank Guggenheim Research Fellowship Award, 1983 and 1984.
- Appointed to Journal of Animal Science Editorial Board, 1983; appointed Section Editor for Environment and Behavior Section, Journal of Animal Science, 1987-1990.
- Appointed chairman of committee to write national guidelines for use of pigs in agricultural teaching and research, 1986/87. Appointed to revision committee in 1994/95.
- Awarded eight competitive grants from the National Pork Producers Council, four competitive grants from USDA, and many other private and industry competitive grants.

- Invited to speak in England, Ireland, Australia, Venezuela, Colombia, Taiwan, Belgium, France, Brazil and Sweden on mechanisms controlling pig behavior and stress.
- Selected as a "Pacesetter for the 90's" by Hogs Today magazine.
- Grant proposal review panel member for NPPC and USDA Competitive Grants, as well as other agencies (such as, USDA-ARS, NSF, Welcome Foundation).
- First Animal Scientist to serve on the Council on Accreditation for AAALAC, International. On Board of Trustees, elected to member-at-large
- Received over \$3 million in research support awards.
- Only Animal Scientist member of FDA Center for Veterinary Medicine Advisory Committee, 2002-2006.
- As part of a vision for the Southern High Plains, and over several years we recruited production companies whose total economic impact is over \$3 billion per year.
- A research and outreach program over 5+ years resulted in over 100,000 sows taken out of tethers.
- Formed Farm Animal Care Training and Auditing, LLC to audit on-farm and at plants and to develop and deliver training programs about farm animal welfare.
- Initiated the establishment of Professional Animal Auditor Certification Organization, a non-profit animal welfare auditor-certification program. This is a collaboration of farm animal scientists and veterinarians.

TEACHING

A. Primary Classroom Instructor

Swine Production -- 4 semester credit hours (ANSC 4401)

This is a senior-level class that is required at Texas Tech University for Animal Science majors. The class has had 30 to 48 students each semester. Swine Production is taught each Fall semester at Texas Tech and has prerequisites of Reproductive Physiology, Animal Nutrition, Animal Genetics and Meat Science. This class is designated as one of two writing-intensive courses required for the Animal Science degree (this concept was introduced to get students to write in their major). As a writing-intensive class, students are required to complete many small writing projects throughout the semester and they write a semester project. Lately the semester project was to propose to a lender to build a swine production unit (either a finishing or a feeder pig production unit and either indoors or outdoors). Students also must complete proficiency tasks, such as, weaning and artificial insemination.

- Taught 22 semesters (3 semesters at Univ. Wyoming and 19 at Texas Tech).
- Over 800 students taught

Undergraduate Special Problems -- Variable Credit, usually 3 credits (ANSC 4000)

This class is offered each semester and typically I maintain 1 or 2 special problems students most semesters. I encourage this class, in part, because of my positive experience in my own undergraduate research. Students typically study either behavior or immunology or some practical pig problem. Many of these students go on to graduate school.

Contemporary Issues in Animal Agriculture & Advanced Contemporary Issues

The current format for this course was started in 1998. The class was team taught first with Dr. David Waggoner, a member of our adjunct faculty and later with Dr. Robert Albin. The course presents 10 issues currently facing animal agriculture (ex., food safety, animal welfare, corporate farming, etc.). It is taught in two sections; one for graduate students and one

for honors students. The format involved is reading, researching and writing a balanced paper on each issue, and generous time for discussion. Guest speakers with expertise on each issue are invited for at more than half the classes. The class is highly discussion oriented. Discussions can be lively and diverse.

Anatomy & Physiology of Domestic Animals – Honors Undergraduate

Starting in the Spring of 2002, an honors section of Anatomy & Physiology (4 credit hours) was developed. The course is intended for second year undergraduate students with little previous exposure to anatomy and physiology. Besides covering the basics in terminology, concepts and facts about anatomy and physiology, the students are introduced to the scientific literature both in the form of current review articles and the primary scientific literature. Students in this course are those whose objective includes attending medical, veterinary or graduate school.

Topics in Stress, Behavior and Welfare

This course was developed to meet the needs of graduate students for diverse topics in the area of animal welfare, including basic sciences that underlie a complete understanding of animal welfare. The course is taught by distance with participation by Texas Tech University, University of Illinois, University of California – Davis and Iowa State. The topics vary each semester on a cycle of about 3 years. The first semester (Fall, 2004) was Animal Rights Philosophy. The second semester (Spring, 2005) is CRF and Brain Mechanisms of Stress. The third semester (Spring, 2006) is measuring animal behavior and welfare. Other topics will include measuring animal behavior, stress effects on the immune systems, environmental physiology, among others. Students read and summarize classic and contemporary literature and they participate in on-line (web) weekly discussions of the topic of the week.

Other full classes taught:

- Anatomy & Physiology (13 semesters, undergraduates & honors students)
 - Domestic Animal Behavior (3 semesters)
 - Animal Genetics (3 semesters)*
 - Biometry -- Introduction to Graduate Statistics (2 semesters)*
 - Senior Animal Science Seminar (2 semesters)
 - Graduate Seminar (4 semesters)
 - Nutritional Immunology (1 semester, graduate problems class)
 - Environmental Physiology (3 semesters; 28 students)
- * Filled-in as instructor for semesters when we had faculty vacancies.

Guest lectures given:

<u>Class</u>	<u>Subject</u>
1. Introduction to Animal Science (Freshman level)	The Swine Industry, Animal Behavior, Environmental Management
2. Growth and Development (Graduate level)	Endocrine regulation of growth
3. Techniques in Animal Science	Measuring Behavior & Stress Physiology
4. Medical Physiology	Gastrointestinal Physiology

B. Instructional Aids

Computer Programs

McGlone, J. 1982. Analysis of heating and ventilation of livestock housing (Teaching and Extension).
 McGlone, J. 1982. Fertilizer value of livestock waste (Teaching and Extension).

- McGlone, J. 1983. An analysis of fuels for livestock buildings--feed or fuel? (Teaching and Extension).
- McGlone, J., E. Plancher and S. Hayden. 1983. Summarization of frequency, duration and sequences of behavior (Graduate Teaching).

C. Graduate Advisor (Major Advisor)

1. Mr. Tom Heald, M.S., 1984; currently a county agent in Riverton, WY.
2. Dr. Julie Morrow, Ph.D., 1988; currently a Research Animal Scientist with USDA-ARS Livestock Issues Research Unit.
3. Ms. Chana Akins, M.S., 1989; currently a faculty member at Univ. of Kentucky (completed a Ph.D. at University of Texas in Psychology)
4. Dr. Janeen Salak, M.S., 1990; currently a Postdoctoral Fellow at Univ. MN
5. Mr. Eric Fugate, M.S., 1991; currently in private business performing ultrasound analysis of pig breeding stock
6. Dr. Janeen Salak, Ph.D., 1994. Voted outstanding Ph.D. student in Animal Science and outstanding graduate student by Gamma Sigma Delta, 1994; currently a Faculty member at the Univ. of Illinois Animal Science department.
7. Dr. Rhonda Nicholson, Ph.D., 1994; Awarded the distinguished Horn Fellowship, 1994 (first in our department); Was employed as a swine Technical Services specialist at Walnut Grove (Iowa-based feed company) and Danbred, Inc. Deceased.
8. Mr. Gustavo Palacio, M.S., 1994; returned to Colombia to work in Agri-Business
9. Mr. Jeff Dailey, M.S., 1995; currently with USDA-ARS
10. Ms. Samara Kleinbeck, M.S., 1995, currently a web page designer.
11. Ms. Tiffanie Hicks, M.S., 1996, graduated veterinary school (Texas A&M, 2000)
12. Mr. Jeff Hill, M.S., 1997, employed with Murphy Family Farms; then a PhD at MSU, now director of animal welfare and production systems for Premium Standard Farms.
13. Mr. Michael Heup, M.S., 1998. Currently a computer trainer for Microsoft.
14. Mr. Steve Fullwood, M.S., 1999, currently in Ph.D. program at University of Texas-Galveston.
15. Dr. Frank Mitloehner, Ph.D., 2000, Assistant Professor at UC-Davis in Animal Science.
16. Dr. Harold Rachuonyo, Ph.D., Dec. 2001, Post-Doctoral Fellow at the University of Illinois, then North Carolina State University
17. Dr. Jessica Gentry, Ph.D., Dec, 2001 (co-advisor with Dr. M.F. Miller), Currently Assistant Professor at Middle Tennessee State University in Animal Science.
18. Dr. Anna Johnson PhD, Dec. 2001, Currently Director of Animal Welfare for the National Pork Board. April 15, 2005 she began as Assistant Professor of Animal Science at Iowa State University.
19. Ms. Ann McDonald. MS. Dec 2003. Animal Welfare Manager for Excel/Cargill Meat Solutions.
20. Craig Lewis, MS student (May 2006)
21. Lindsey Hulbert, MS (current)
22. Nadege Krebs, PhD student (current)

D. Graduate Committee Service (name, year graduated)

1. Mr. Dean Hawkins, M.S., 1986
2. Ms. Deb Saurhague, M.Ag. 1986
3. Ms. Michelle Griffith, M.S., 1988
4. Mr. Joe Sells, M.S., 1988
5. Mr. Scott Henke, M.S., 1988
6. Mr. Scott Osborne, M.S., 1990
7. Ms. Becky Hennig, M.S., 1992

8. Ms. Mary Penturf, Ph.D. (Food and Nutrition & Surgery), 1994
9. Mr. Jay Branum, M.S., 1994
10. Mr. Zhensheng Lou, PhD, 1994, U Guelph (external examiner)
11. Mr. Chip Shaw, M.S. (Cell Biology), 1996
12. Mr. Ross Clarke, PhD, 1997 U Queensland (external examiner)
13. Ms. Tammy Geiger, M.S., 1997
14. Mr. Randy Davis, Ph.D. (Food and Nutrition), 1998
15. Mr. Jason Stockstill, M.S. 2002 (Animal Science)
16. Mr. Ron Mutai, M.S., 2002 (Agricultural Economics)
17. Ms. Rebecca McPherson, M.S., 2003 (Animal Science)
18. Mr. Fei Ji, PhD., 2004 (Animal Science)
19. Alycia Pyle. M.S. student (current)

Additional Teaching Activities

Mullti-media Teaching aides

A series of video tapes, power point presentations and a web page (<http://www.pii.ttu.edu> then click on ANSC 4401) have been prepared for use in Swine Production class. This series highlights procedures which should be followed in the care of pigs - from birth to market and breeding. Such multi-media tapes and electronic tools are valuable aids to teaching. They reinforce principles learned in lecture. In addition, they show students how to perform manual tasks (giving injections of medicine, for example) before they actually handle the pigs. In addition, the NPPC video on Swine Handling was filmed at Texas Tech with significant input from a committee. The multi-media National Pork Board video educational module on Swine Husbandry was developed (2005).

Hands-on student involvement

Students learn by doing in all undergraduate classes. In the Swine Production laboratory, students handle newborn, growing and adult pigs as producers would. Students weigh, vaccinate, ear notch, castrate, transport and observe live pigs. In Genetics class, students selectively breed mice for faster or slower body weight after weaning. In Anatomy & Physiology, an anatomy laboratory was added to facilitate hands-on learning by students.

Undergraduate involvement in research

In addition to advising graduate students and serving on graduate committees, a group of special problems undergraduate students is involved in research. These undergraduate students are sometimes so involved in research that they author original research articles. Nearly every research project has some undergraduate involvement. Students are involved in every phase of the research from randomization of experimental units to data collection, analysis and manuscript preparation for publication.

SELECTED RECENT STUDENT EVALUATION COMMENTS

"Dr. McGlone is a very good instructor and cares about students. As an individual he has helped me a lot."

"He seemed interested in the students and tried to work with them."

"Using computers in this course was one of the best and practical ideas. More professors should utilize that resource."

"The instructor was a very good one with concern for the learning of each individual student."

"He was enthusiastic and very optimistic towards the subject matter. He made the material sort of interesting when it could have been very boring."

RESEARCH

A. **Grants and Awards** (*Total funding to-date: \$3,956,597 + gifts in-kind*)

1. McGlone, J. J. 1982. Biological characterization of aggressive pheromones in domestic swine. Biomedical Research Support Grant. University of Wyoming. \$1,500.
2. McGlone, J. J. 1983/84. Behavioral and pheromonal signals which modulate swine aggression and dominance. H. F. Guggenheim Foundation. \$43,233.
3. McGlone, J. J., and F. Blecha. 1984. The welfare of sows and piglets: an examination of behavioral, immunological and productive traits in four management systems. Humane Information Services. \$20,000.
4. McGlone, J. J. 1985. Farrowing barn drip coolers. Edstrom Industries. \$900.
5. McGlone, J. J. 1985. Reducing stress in swine-farrowing crate design. Houston Livestock Show and Rodeo. \$3,500.
6. McGlone, J. J. 1986. Reducing social stress in the hog show ring. Houston Livestock Show and Rodeo. \$2,000.
7. McGlone, J. J. 1987/88. Evaluation of gestation environments. National Pork Producers Council. \$25,000 (2 years).
8. McGlone, J. J. 1987. Lincomycin for finishing swine. Upjohn. \$3,000.
9. McGlone, J. J. 1988/89. Genetics of immune function. DeKalb Swine Breeders. \$15,800.
10. McGlone, J. J. 1988. Beef cattle immunogenetics. Houston Livestock Show and Rodeo. \$5,500.
11. McGlone, J. J. 1989. Amperozide effects on sequences of pig behavior. Pharmacia (Malmo, Sweden). \$22,150.
12. McGlone, J. J. 1989. Identifying genotypes that code for resistance to stress-induced immunosuppression. Houston Livestock Show & Rodeo. \$2,600.
13. McGlone, J. J. 1989/90. Research support for behavior-immune interactions in pigs. Pharmacia (Malmo, Sweden). \$5,000.
14. McGlone, J. J. 1989. A demonstration pig feedlot to encourage agricultural diversity in Texas. Texas Department of Agriculture. \$15,000.
15. McGlone, J. J., and J. M. Hellman. 1990. Pain associated with castration in piglets. National Pork Producers Council. \$12,360.
16. McGlone, J. J., and J. S. Sells. 1990. Lipid effects on immune function of mice and pigs. Inst. of Nutrition. \$10,000.
17. McGlone, J. J. and M. F. Miller. 1991. Use of boars: behavioral management and meat aspects. Successful Farming Foundation. \$3,000.
18. McGlone, J. J. 1991/92 & 1992/1993. Evaluation of girth tethers for sows. National Pork Producers Council. \$26,400 (2 years).
19. McGlone, J. J. & R. L. Norman 1991/92. Quantification of stress in sows: comparison of the stress of individual housing with social stress. National Pork Producers Council. \$16,600.

20. McGlone, J. J. 1992. Pork industry education & business assistance. Texas Department of Agriculture & matching donors. \$36,000.
21. McGlone, J. J. & C. R. Richardson 1992. Evaluation of a whey substitute for nursery pigs. Industrial Grain Products. \$1,121.
22. McGlone, J. J. 1992/3. Reducing production costs. National Farms, Inc. \$47,000.
23. McGlone, J. J. 1993. Outdoor pork production. Texas Department of Agriculture and matching funds from Pig Improvement Company. \$55,500.
24. McGlone, J. J. & R. L. Norman. 1993/1996. Investigations of feeding motivation for stereotyped behavior of sows. USDA-NRI competitive grant. \$215,000.
25. McGlone, J. J. 1994/95. Evaluation of dendritic branching of littermate pigs reared indoors and outdoors. USDA-ARS \$18,700
26. McGlone, J. J. and R. L. Norman. 1997-2000. Neuroendocrine mechanisms of central CRH and stress-induced behavior and immune changes. USDA-NRI. \$162,000.
27. Lee, Vaughan and John McGlone. 1997-1999. Regulation of prepubertal pig ovarian maturation to increase future litter sizes. State of Texas Advanced Technology Research Program. \$136,793. Eclipse Bioscience, \$349,000.
28. McGlone, J. J. (as Project Director). 1998-2002. Low-input, high output sustainable pork production. USDA-Fund for Rural America, Consolidated Nutrition and Texas Tech University. USDA-FRA \$475,000, Consolidated Nutrition, \$322,000 start-up and ~\$200,000 per year for 4 years, Texas Tech University match \$475,000; PIC USA \$20,000 (total 4-year project budget = \$2,103,000)
29. McGlone, J. J. 1995-2000. Feedlot cattle behavior. USDA-ARS. \$205,000. (\$125,000 in 1998/00).
30. McGlone, J. J. 1998-2000. Pig pheromones to reduce stress. Sanofi (CEVA) Sante Nutrition Animale (Libourne, France). \$125,000.
31. McGlone, J. J. and R. L. Norman. 1998/99. Mouse husbandry requirements. Texas Tech University competitive grants program. \$20,000.
32. McGlone, J. J. 2000. Feedlot cattle behavior. Intervet. \$19,000
33. M. Galyean and J. J. McGlone. 2000-2001. Management of heat stress in feedlot cattle. Texas ATP program. \$100,000.
34. McGlone, J. J. and S. W. Kim. 2002-2003. Promax effects on pig growth, odor and immunity. Humatech. \$70,000.
35. McGlone, J. J. and J. L. Morrow. 2002-2004. Evaluation of trickle feeding system for pregnant sows. USDA-ARS. \$225,000
36. McGlone, J. J. (collaborators: V. H. Lee, P. Pageat, G. Barthelemy). 2004-2007. Maternal pheromone effects on pig well-being. USDA-NRI. \$293,839.
37. McGlone, J. J. 2004/5. Methods to reduce dead and down pigs during transport. Elanco Animal Health. \$34,000.
38. McGlone, J. J. 2005. Reducing stress prior to stun. Darden Foundation. \$35,000.
39. McGlone, J. J. & Dan Hardy. 2006. Biological control of feral hogs. Texas Department of Agriculture. \$109,500.

40. McGlone, J. J. 2006. Space requirements of weaned pigs during transportation. National Pork Board. \$80,000
41. McGlone, J. J. 2006. Training materials for pig workers loading and unloading trucks. Elanco Animal Health. \$50,000.
42. McGlone, J. J. 2006. Space requirements of weaned pigs during transport. National Pork Board in cooperation with Seaboard Foods. \$83,990.
43. McGlone, J. J. 2007. Is tail docking necessary and if so, how long should the tail be? National Pork Board in cooperation with Cargill Meat Solutions. \$84,614.

B. Invited Papers & Talks

1981. Evidence for an aggression-influencing pheromone in domestic swine: Biological and applied implications. American Animal Behavior Society. (Symposium: Applied Ethology).
1983. Improved production efficiency with behaviorally engineered swine facilities. 18th International Ethological Conference, Brisbane, Australia. (Symposium: Environmental Design and Animal Behavior).
1984. Measuring aggressive behaviors. American Society of Animal Science. (Symposium: Measuring Domestic Animal Behavior).
1985. Productivity, behavior and immune measures of sows and litters in four farrowing environments. Livestock Conservation Institute annual meeting.
1985. Mechanisms controlling pig aggression, submission and dominance. Kansas State University, College of Veterinary Medicine seminar series.
1986. Guidelines for use of large animals in teaching research and production: History, problems and opportunities. ARPAS symposium.
1986. Managing pig behavior. Kansas State University College of Veterinary Medicine seminar series.
1986. Behavioral management: present knowledge and future contributions. Moormans Manufacturing Co. Quincy, IL.
1987. Managing heat stress in swine. Sponsored by U.S. Feed Grains Council at Venezuela and Columbia Pork Producers' meetings.
1988. Mechanisms controlling pig aggressive and submissive behavior. Bordeaux, France; Brussels, Belgium and Malmo, Sweden.
1988. Scientific basis for modern production systems. World Pork Expo, Des Moines, IA.
1989. (A) Managing pig behavior. (B) Effects of animal welfare activists on pork producer well-being. (C) Evaluating and improving stress and pain in pigs -- low tech solutions. Washington State University and Pacific Northwest Pork Producers.
1989. Housing swine: Farrowing, nursery, finishing facilities. 1989 Minnesota Veterinary Conference, St. Paul, MN.
1989. Effects of neuroleptics on pig behavior and immune function. Malmo, Sweden. Sponsored by Pharmacia LEO Therapeutics.

- 1989. Maternal-neonatal behavior in sheep. American Society of Animal Science annual meeting, Lexington, KY.
- 1989. Sow Housing. Second World Pork Expo. Springfield, IL (invited poster presentation of funded research).
- 1989/90. Stress, behavior and immune function in pigs. Texas Tech University Health Sciences Center. Three seminars in Departments of Physiology, Cell Biology & Anatomy, and Biology Department.
- 1990. Housing the pregnant sow. American Association of Swine Practitioners. February.
- 1990. Cornell University School of Veterinary Medicine. Animal care and behavior research. March.
- 1990. Sow housing. Manitoba Pork Producers. April.
- 1990. Proper sow housing for SPF swine. International Swine Housing Symposium. Taiwan. May.
- 1990. Animal care issues: Sow housing, tail docking castration and other standard practices. World Pork Expo. Des Moines IA. June.
- 1990. Measuring pig social, feeding and sexual behavior. American Society of Animal Science annual meeting. July.
- 1990. Animal Care Issues. Presented at the following annual meetings: Alabama Farmers Federation, Nebraska Women in Agriculture, American Association of State Colleges of Agriculture and Renewable Resources (AASCARR).
- 1991. Animal care issues for pork producers. Iowa State Pork Producers annual meeting. Des Moines, IA.
- 1991. Nutritional effects on immunity and nutrition-stress interactions. Food and Nutrition Department, Texas Tech University.
- 1991. A short course in animal behavior and welfare (5 hours). Tennessee Veterinary Medical Association, Nashville.
- 1991. Scientific issues related to animal care. Missouri Veterinary Medical Association annual meeting. Lake of the Ozarks, MO.
- 1991. What is welfare? International conference on farm animal welfare. Wye Plantation, MD.
- 1991. Teaching standard agricultural practices that are thought to be painful. American Society of Animal Science annual meeting. (Teaching Symposium, Wyoming).
- 1991. Scientific basis for modern production systems. Texas Farm Bureau annual meeting. Lubbock, TX.
- 1992. Scientific basis for modern production systems. Texas Farm Bureau young farmers meeting. San Antonio, TX.
- 1992. Texas pork industry developments. Texas Agricultural Marketing Conference (sponsored by the Texas Department of Agriculture). Austin, TX.
- 1992. Scientific evaluation of management practices. ASAS annual meeting, Environment & Behavior Section.
- 1992. Scientific basis for modern production systems. Texas & Southwestern Cattle Raisers Association, San Antonio, TX.
- 1992. Scientific basis for modern production systems. Plains Nutrition Council. Amarillo, TX.

- 1992. Pork Industry development in Texas. Annual meeting of Texas Pork Producers. Seguin, TX.
- 1992. Pork Industry development in Texas. Texas Grain & Feed Association Conference, Austin, TX.
- 1992. Pork Industry development in Texas. Brownfield and area Chamber of Commerce and Economic Development Group.
- 1992. Evaluating behavioral and physiological responses to standard agricultural practices. ASAS annual meeting.
- 1992. Pork production in west Texas and research opportunities in environmental management. Pig Improvement Company,
- 1993. Stress & Natural Killer Cells. (1) Dept. of Biology, Texas Tech University and (2) Texas Tech Medical Center in Amarillo.
- 1993. Animal welfare concerns in the swine industry. Al Leman Conference at the University of Minnesota.
- 1993. Evaluating stress and well being in livestock. South Dakota State University Stress Conference.
- 1993. The modern pork industry. The Lubbock Rotary Club, Lubbock, TX.
- 1993. Evaluating sow welfare. Minnesota Swine Veterinary Conference. Minneapolis.
- 1993. Psychoneuroimmunology: neuroendocrine mechanisms for stress effects on pig natural killer cell activity. Psychoneuroimmunology seminar series. University of Minnesota.
- 1994. Stress and welfare of pigs: current science and society problems. Pfizer Conference. South Sioux City, NE.
- 1994. Outdoor, intensive pig production. Texas Pork Producers Association annual meeting, Seguin, TX.
- 1994. Scientific basis for modern pork production. Fairmont, MN pork producers.
- 1994. Economic developments in the Texas swine industry. Perryton, TX.
- 1995. Behavioral biology of pigs. Washington State Swine Information Days.
- 1995. Pork industry developments in west Texas. Amarillo Chamber of Commerce, Amarillo, TX.
- 1995. Intensive, outdoor pork production -- an update. Texas Pork Producers Association annual meeting, Seguin, TX.
- 1996. Modern commercial pork production. Dalhart Rotary Club, Dalhart, TX.
- 1996. Pig stress physiology and behavior; international competitiveness of pork production. 2-week speaking tour of France, including talks or workshops in Tour, Rennes and Bordeaux.
- 1997. How pigs saved the world (and will do so again). Perryton, TX.
- 1997. Sustainable pork production; handling pigs; international competition in commercial pork production. 5-week speaking tour of Australia, including talks in Queensland, Western Australian, South Australia, Victoria, New South Wales and Canberra.
- 1997. Economic development of the pig industry in west Texas: a need for more processing. Dumas Community Meeting, Dumas, TX.
- 1997. Animal welfare - the calm before the storm. American Association of Swine Practitioners. Quebec City, Quebec, Canada.

- 1997. Stockmanship training. Premium Standard Farms, Dalhart, TX.
- 1998. Australian agriculture. Week-long program on international agriculture as a part of international agriculture week at Texas Tech University.
- 1998. Agricultural animals in agricultural & biomedical settings. National Capital Area Branch AALAS, Hagerstown, MD.
- 1998. Stockmanship: key to productivity. Premium Standard Farms, Dalhart, TX.
- 1998. Pig herd stockmanship. Oklahoma Pork Producers Association annual meeting, Oklahoma City, OK.
- 1998. Behavior of growing pigs. International Pig Veterinary Society. Birmingham, England.
- 1998. Agricultural animals in biomedical and agricultural research. National AALAS meeting, Cincinnati, OH.
- 1998. Care and use of agricultural animals in agriculture research and teaching. AASCARR Conference. Hot Springs, AR.
- 1999. How pigs saved the world (and will do so again). Oklahoma Pork Producers Association annual meeting, Oklahoma City, OK.
- 1999. Animal well-being issues associated with international trade, production, and animal health. FAIR 2002 program (Food Animal Integrated Research 2002). The program was designed to develop national research priorities for animal agriculture. April 11-13, 1999. Baltimore, MD.
- 1999. Animal well-being and stress issues for ARS and its collaborators: past, present and future. ARS National Program Staff priority setting for the area of stress and well-being. April 20, 1999. Beltsville, MD.
- 1999. Moderator at ASAS Annual Meeting Symposium titled: "Navigating Animal Care and Use with the New Ag Guide". July 23, 1999. Indianapolis, IN.
- 1999. Outdoor swine production technologies: warm weather sow and finishing pig management. Outdoor Pig Symposium, October 23-24, 1999. Chapeco, Brazil.
- 1999. Optimal design and operation of facilities for swine. National AALAS meeting, November 1999. Indianapolis, IN.
- 2000. Animal welfare: Science or Politics. Nebraska Pork Producers annual meeting. Feb 2, 2000. Columbus, NE.
- 2000. The marketability and challenges of producing "welfare-friendly" and other upscale pork products. American Association of Swine Practitioners. Indianapolis, IN. March 11, 2000.
- 2000. Feedlot cattle behavior and performance. Roche Feedlot Cattle Symposium. Baltimore, MD. 2000 annual meeting of ASAS.
- 2000. Course in outdoor pig production (3-day course with Mr. Jerry Smith, TTU outdoor pig manager) in Concordia, Santa Catarina, Brazil.
- 2000. Sustainable Pork Program Update. South Plains Association of Soil and Water Conservation Districts. Lubbock, TX. 16 August, 2000.
- 2000. Measurement of farm animal welfare. European Association of Animal Production (EAAP). The Hague, the Netherlands. August 2000.
- 2001. Gestation sow housing. Manitoba Pork Producers. Jan 31, 2001.
- 2001. Training in farm animal care. ARPAS symposium at the national animal science meeting, Indianapolis, IN, July, 2001

- 2001. FASS worker training program. Symposium at the national animal science/FASS meeting, Indianapolis, IN, July, 2001.
- 2001. Invited to participate as a member of a review team for Canada Innovation fund grant proposals. Toronto, Canada, September, 2001.
- 2001. Sustainable Pork Production. Presented to the Carolina Farm Stewardship Association Sustainable Agriculture Annual Conference in Rock Hill, SC. October, 2001.
- 2001. The Sustainable Pork Program. Presented to the Texas Farm Bureau Ag Leaders Tour. Nov 14, 2001.
- 2002. AAALAC accreditation in a college of agriculture. University of Wisconsin. May 7, 2002. Madison, WI.
- 2002. Pig welfare research. Victoria Department of Agriculture. Werribee, Australia (near Melbourne). May, 2002.
- 2002. Swine Housing & Well-Being: the Stall System (the Crate). P.O.R.K. Academy. Des Moines, Iowa. June 5, 2002.
- 2002. FASS_ARPAS symposium: Development of farm animal training materials. July 24, 2002.
- 2003. International Pig School. Nottingham, England. September 2002.
- 2002. Accreditation challenges: Physical Plant Issues. Annual meeting of AALAS. October 29, 2002.
- 2002. Pig handling and Stockmanship. Presented to ELANCO Animal Health, Nov 5, 2002.
- 2002. Science and Ethics: a scientist's point of view. NASULGC annual meeting. Chicago, IL. November 10, 2002.
- 2002. Stockmanship training. Russellville, AR. Dec 17th, 2002.
- 2003. Space needs of laboratory mice. PRIM&R and ARENA meeting in San Diego, CA. March 30, 2003
- 2003. Session chair in symposium: AAALAC International Accreditation at State Universities and Land Grant Colleges: Trends, challenges and potential solutions. ASAS/ADSA annual meeting, Phoenix, AZ. 24 June, 2003.
- 2003. ACUC, husbandry and physical plant issues at agricultural institutions. ASAS/ADSA annual meeting, Phoenix, AZ. 24 June, 2003.
- 2004. Update on animal welfare. 21st Century Pork Club. Phoenix, AZ. January, 2004.
- 2004. Farm Animal Welfare Audit Systems – Based on Science and Sound Audit Practices. Banff Pork Seminar Series. January, 2004. 2004.
- 2004. Maternal pheromone effects on pig performance and behavior. Univ. of MN. Animal Science and Veterinary Medicine Swine Group. February 2, 2004.
- 2004. Handling Pigs and transportation of pigs. American Meat Institute conference. February, 2004.
- 2004. Applying real world welfare concerns to the production system through third party audits. American Association of Swine Veterinarians Annual Meeting. March, 2004.
- 2004. Group feeding of gestating sows: trickle vs drop feeding. American Association of Swine Veterinarians Annual Meeting. March, 2004.

- 2004. Options for sows in farrowing. Pork Academy. Des Moines, Iowa. June 9, 2004.
- 2004. Stress in the weaned pig. Satellite meeting to the 2004 IPVS hosted by Ceva.
- 2004. Swine audits. FASS professional seminar series. St. Louis, MO.
- 2005. Opportunities for research on down pigs. Hanor and Elanco. January 18th, 2005.
- 2005. Pig handling: basics and advanced (2 talks). AMI educational conference, Kansas City, MO. Feb 9-10, 2005.
- 2005. Pig Stockmanship. Cargill Pork contract producers. Sessions held in Oklahoma and Arkansas Feb 24 & 25, 2005.
- 2005. Maternal pheromone effects on pig performance and behavior. Montreal, Toronto, Winnipeg and Calgary. April 18-22, 2005.
- 2005. Pork Quality Assurance programs. European Association of Animal Production annual meeting. 5 June, 2005. Uppsala, Sweden.
- 2005. Sow Housing Issues. AVMA annual meeting, Minneapolis, MN. July 18-19, 2005
- 2006. Current animal welfare issue. Pig Ski Seminar. Keystone, CO. Feb 24, 2006.
- 2006. Measuring animal welfare: pitfalls and opportunities. ASAS annual meeting. July, 2006.

C. Publications And Other Refereed Activities

1. Refereed Articles

1. Kelley, K. W., J. J. McGlone and J. A. Froseth. 1978. Lithium toxicity in pregnant swine. *Proc. Exp. Bio. Med.* 158:123-127.
2. Kelley, K. W., J. J. McGlone and C. T. Gaskins. 1980. Porcine aggression: Measurements and effects of crowding and fasting. *J. Animal Science.* 50:336-341.
3. McGlone, J. J., S. Ritter and K. W. Kelley. 1980. The antiaggressive effect of lithium is abolished by area postrema lesion. *Physiol. Behav.* 24:1095-1100.
4. Ritter, S., J. J. McGlone and K. W. Kelley. 1980. Absence of lithium-induced taste aversion after area postrema lesion. *Brain Research* 201:501-506.
5. McGlone, J. J., K. W. Kelley and C. T. Gaskins. 1981. Lithium and porcine aggression. *J. Animal Science.* 51:447-455.
6. Curtis, S. E. and J. J. McGlone. 1982. Status of farm animal behavioral research in North America. *J. Animal Science.* 54:450-455.
7. McGlone, J. J. 1984. Aggressive and submissive behavior in young swine given exogenous ACTH. *Dom. Anim. Endocrin.* 1:319-321.
8. McGlone, J. J., E. Plancher and S. Hayden. 1985. A description of micro- and mainframe-computer programs to summarize frequency, duration and sequences of behavior. *Applied Animal Behaviour Science.* 13:219-226.

9. McGlone, J. J. and S. Curtis. 1985. Behavior and performance of weanling pigs in pens equipped with hide areas. *J. Animal Science*. 60:20-24.
10. McGlone, J. J. 1985. Olfactory cues and pig agonistic behavior: evidence for a submissive pheromone. *Physiology and Behavior*. 34:195-198.
11. McGlone, J. J. 1985. A quantitative ethogram of aggressive and submissive behaviors in recently regrouped pigs. *J. Animal Science*. 61:559-565.
12. McGlone, J. J. 1986. Influence of resources on pig aggression and dominance. *Behav. Processes* 12:135-144.
13. McGlone, J. J. 1986. Agonistic behavior in food animals: review of research and techniques. *J. Animal Science*. 62:1130-1139.
14. McGlone, J. J., L. F. Tribble and W. S. Stansbury. 1986. Aerosolized 5 alpha-androst-16-en-3-one reduced agonistic behavior and temporarily improved performance of growing pigs. *J. Animal Science*. 63:679-684.
15. McGlone, J. J. and R. Stobart. 1986. A quantitative ethogram of behavior of yearling ewes during two hours post-parturition. *Applied Animal Behaviour Sci*. 16:157-164.
16. Arnold-Meeks, C. and J. J. McGlone. 1986. Validating techniques to sample behavior of confined young pigs. *Applied Animal Behaviour Science*. 16:149-155.
17. McGlone, J. J., S. E. Curtis and E. M. Banks. 1987. Evidence for aggression-modulating pheromones in prepuberal pigs. *Behav. Neural. Biol.* 47:27-39.
18. McGlone, J. J. and J. L. Morrow. 1987. Individual differences among mature boars in T-maze preference for estrous or nonestrous sows. *Applied Animal Behaviour Science*. 17:77-82.
19. McGlone, J. J., W. F. Stansbury and L. F. Tribble. 1987. Effects of heat stress, social stress and their interaction on young pig performance and behavior. *J. Animal Science*. 65:456-462.
20. McGlone, J. J. and F. Blecha. 1987. An examination of behavioral, immunological and productive traits in four management systems for sows and piglets. *Applied Animal Behaviour Science*. 18:269-286.
21. Stansbury, W. F., J. J. McGlone and L. F. Tribble. 1987. Effects of season, floor type, air temperature and snout coolers on sow and litter performance. *J. Animal Science*. 65:1507-1513.
22. McGlone, J. J. 1988. Letter: Science and Faith. *The Scientist*. 2(19):10. Oct 17, 1988.
23. McFarlane, J. M., G. L. Morris, S. E. Curtis, J. Simon and J. J. McGlone. 1988. Some indicators of welfare of crated veal calves on three dietary iron regimens. *J. Animal Science*. 66:317-325.
24. McGlone, J. J. and J. L. Morrow. 1988. Reduction of pig agonistic behavior by androstenone. *J. Animal Science*. 66:880-884.
25. McGlone, J. J., W. F. Stansbury and L. F. Tribble. 1988. Management of lactating sows during heat stress: effects of water drip, snout coolers, floor type and a high energy-density diet. *J. Animal Science*. 66:885-891.

26. McGlone, J. J., W. F. Stansbury, L. F. Tribble and J. L. Morrow. 1988. Photoperiod and heat stress influence on lactating sow performance and photoperiod effects on nursery pig performance. *J. Animal Science*. 66:1915-1919.
27. McGlone, J. J., C. K. Akins and J. L. Morrow. 1988. Preliminary study on sexual behavior of socially dominant and subordinate boars in a seminatural environment. *Texas J. Agriculture and Natural Resources*. 2:7-9.
28. McGlone, J. J. and J. M. Hellman. 1988. Local and general anesthetic effects on behavior and performance of 2 and 7 week old castrated and non-castrated piglets. *J. Animal Science*. 66:3049-3058.
29. Hurst, R. J. and J. J. McGlone. 1989. Androstenone aerosol and azaperone injection influence on pig aggressive and submissive behaviors. *Texas J. Agriculture and Natural Resources*. 3:52-53.
30. Salak, J. L., J. J. McGlone, J. L. Morrow-Tesch, R. J. Hurst and R. D. Green. 1989. Genetic variability in measures of beef cattle immune response. *Texas J. Agriculture and Natural Resources*. 3:54-56
31. Morrow-Tesch, J. L. and J. J. McGlone. 1990. Sensory systems and nipple attachment behavior in neonatal pigs. *Physiology & Behavior*. 47:1-4.
32. McGlone, J. J. and J. L. Morrow-Tesch. 1990. Productivity and behavior of sows in level vs. sloped farrowing pens and crates. *J. Animal Science*. 68:82-87.
33. Morrow-Tesch, J. and J. J. McGlone. 1990. Sources of maternal odors and the development of odor preferences in baby pigs. *J. Animal Science*. 68:3563-3571.
34. McGlone, J. J., C. K. Akins and R. D. Green. 1991. Genetic variation of sitting frequency and duration in pigs. *Applied Animal Behavior*. 30:319-322.
35. McGlone, J. J. 1991. Techniques for evaluation and quantification of pig reproductive, ingestive and social behaviors. *J. Animal Science*. 69:4146-4154.
36. McGlone, J. J., E. A. Lumpkin and R. L. Norman. 1991. ACTH stimulates natural killer cell activity. *Endocrinology*. 129:1653-1658.
37. McGlone, J. J. 1992. Pig behaviour research in the United States. *Pig News and Information*. 13:71N-73N.
38. Lumpkin, E. A. and J. J. McGlone. 1992. A ⁵¹Cr release assay for determination of natural killer cell cytotoxicity. *J. Nutritional Immunology*. 1:63-74.
39. Lumpkin, E. A., J. J. McGlone, J. L. Sells and J. M. Hellman. 1993. Modulation of murine natural killer cell cytotoxicity by dietary fish oil. *J. Nutritional Immunology* 2:43-53.
40. McGlone, J. J. and T. A. Hicks. 1993. Teaching standard agricultural practices that are known to be painful. *J. Animal Science*. 71:1071-1074.
41. McGlone, J. J., J. L. Salak, E. A. Lumpkin, R. I. Nicholson, M. Gibson and R. Norman. 1993. Shipping stress and social status effects on pig performance, plasma cortisol, natural killer cell activity and leukocyte numbers. *J. Animal Science*. 71:888-896.

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43. McGlone, J. J., R. I. Nicholson, J. M. Hellman and D. N. Herzog. 1993. The development of pain associated with castration and attempts to prevent castration induced behavioral changes. *J. Animal Science*. 71:1441-1446.
44. Salak, J. L., J. J. McGlone and M. Lyte. 1993. Effects of in vitro adrenocorticotropin hormone, cortisol and human recombinant interleukin-2 on porcine neutrophil migration and luminol-dependent chemiluminescence. *Veterinary Immunology and Immunopathology*. 39:327-337.
45. McGlone, J. J. 1993. What is animal welfare? *J. Agricultural & Environmental Ethics*. 6:26-36.
46. Norman, R. L., J. J. McGlone and C. J. Smith. 1994. Restraint inhibits LH secretion in the follicular phase of the menstrual cycle in Rhesus Macaques. *Biology of Reproduction*. 50:16-26.
47. McGlone, J. J. and B. Newby. 1994. Space requirements for finishing pigs in confinement: behavior and performance while group size and space vary. *Applied Animal Behaviour Science*. 39:331-338.
48. McGlone, J. J. 1994. Animal Behavior (Ethology) *Encyclopedia of Agricultural Science*. Volume 1 41-47. Academic Press.
49. McGlone, J. J., J. L. Salak-Johnson, R. I. Nicholson and T. Hicks. 1994. Evaluation of crates and girth tethers for sows: reproductive performance, immunity, behavior and ergonomic measures. *Applied Animal Behaviour Science*. 39:297-311.
50. Morrow-Tesch, J. L., J. J. McGlone, J. L. Salak and R. J. Hurst. 1994. Heat and social stress effects on pig leukocyte numbers, mitogen-induced lymphocyte proliferation, antibody synthesis and plasma immunoglobulin G concentration. *J. Animal Science*. 72:2599-2609.
51. Norman, R. L., J. J. McGlone and C. J. Smith. 1994. Restraint inhibits LH secretion in the follicular phase of the menstrual cycle in Rhesus Macaques. *Biology of Reproduction*. 50:16-26.
52. Nicholson, R. I., J. J. McGlone and R. T. Ervin. 1995. Economic comparison of pig feedlot housing in the Southern High Plains of Texas. *Texas J. Agriculture and Natural Resources*. 8:19-26.
53. Penturf, M., J. J. McGlone and J. A. Griswold. 1996. Modulation of immune response in thermal injury by essential fatty acid diet. *J. Burn Care and Rehabilitation*. 17:464-470.
54. Salak-Johnson, J. L., J. J. McGlone and R. L. Norman. 1996. In vivo glucocorticoid effects on porcine natural killer cell activity and circulating leukocytes. *J. Animal Science*. 74:584-592.
55. Salak-Johnson, J. L., J. J. McGlone, C. S. Whisnant, R. L. Norman and R. R. Kraeling. 1997. Intracerebroventricular porcine corticotropin-releasing hormone and cortisol effects on pig immune measures and behavior. *Physiology & Behavior*. 61:15-23.

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58. Blackshaw, J. K., A. W. Blackshaw and J. J. McGlone. 1997. Buller Steer Syndrome. *Applied Animal Behaviour Science*. 54:97-108.
59. Dailey, J. W. and J. J. McGlone. 1997. Oral/nasal/facial and other behaviors of sows kept individually outdoors on pasture, soil or indoors in gestation crates. *Applied Animal Behaviour Science*. 52:25-43.
60. Sarignac, C., J. P. Signoret and J. J. McGlone. 1997. Relation mere-jeune, comportement et performances en fonction du systeme de logement et de l'environnement social. [Sow and piglet performance and behavior in either intensive outdoor or indoor units with litters managed as individuals or as small social groups] *Journées Rech. Porcine en France*. 29:123-128.
61. Fullwood, S., T. A. Hicks, J. C. Brown, R. L. Norman and J. J. McGlone. 1998. Floor space needs for laboratory mice: C57BL/6 males in solid-bottom cages with bedding. *ILAR J*. 39:29-36.
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63. Hill, J. D., J. J. McGlone, S. D. Fullwood and M. F. Miller. 1998. Environmental enrichment influences on pig behavior, performance and meat quality. *Applied Animal Behavior Science*. 57:51-68.
64. Jarvinen, M. K., J. Morrow-Tesch, J. J. McGlone and T. L. Powley. 1998. Effects of diverse development environments on neuronal morphology in domestic pigs (*Sus scrofa*). *Developmental Brain Research*. 107:21-31.
65. Holden, P. J. and J. J. McGlone. 1999. Animal welfare issues: Swine. *AWIC Bulletin* 9(3-4):9-11.
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67. Kleinbeck, S. N. and J. J. McGlone. 1999. Intensive indoor versus outdoor swine production systems: genotype and supplemental iron effects on blood hemoglobin and selected immune measures in piglets. *J. Animal Science*. 77:2384-2390.
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73. McGlone, J. J., D. L. Anderson and R. L. Norman. 2001. Floor Space Needs for Laboratory Mice: BALB/cj Males or Females in Solid-bottom Cages with Bedding. *Contemporary Topics in Laboratory Animal Science*. 40:21-25.
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77. McGlone, J. J. 2001. Farm animal welfare in the context of other society issues: toward sustainable systems. *Livestock Production Science*. 72:75-81.
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- Environmental prevalence and persistence of *Salmonella spp.* in outdoor swine wallows. *Foodborne Pathogens and Disease*. 2(3):263-273.
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 101. Hulbert, L. and J. J. McGlone. 2006. Evaluation of Drop vs. Trickle Feeding Systems for Crated or Grouped Penned Gestating Sows. *J. Anim. Sci.* 84:1004-1014.
 102. McComb, J. J., X. Qian, J. Veldhuis, R. L. Norman and J. J. McGlone. 2006. Neuroendocrine Responses to Psychological Stress in Eumenorrhic and Oligomenorrhic Women. *Stress* 9(1):41-51.
 103. Ji, F., J. J. McGlone and S. W. Kim. 2006. Effects of dietary humic material on pig growth performance, carcass characteristics and ammonia emission. *J. Anim. Sci.* 84:2482-2490.
 104. McGlone, J. J. 2006. Comparison of sow welfare in the Swedish deep-bedded system and the US crated-sow system. 229:1327-1330 [Refereed commentary]
 105. Johnson, A. K., J. L. Morrow, J. W. Dailey, and J. J. McGlone. 2006. Prewaning mortality in loose-housed lactating sows: Behavioral and performance differences between sows who crush or do not crush piglets. *Appl. Anim. Behav. Sci.* (in press).
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2. **Books, Book Chapters & Group Writing Efforts**

Textbook

- McGlone, J. J. and W. Pond. 2003. *Pig Production: Biological Principles and Applications*. Delmar-Thomson.

Book Chapters

1. McGlone, J. J., Chapter Chairman. 1988 & 1999. Swine chapter in *Guide for the care and use of agricultural animal teaching and research*.
2. McGlone, J. J. 1990. Potential for improving animal health by modulation of behavior and immune function. In: F. Blecha and B. Charley (Eds.) *Immunomodulation in Domestic Food Animals*. Academic Press, NY.
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4. McGlone, J. J. 1990. Olfactory signals that modulate pig aggressive and submissive behavior. In: *Social Stress in Domestic Animals*. Edited by R. Zayan and R.

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5. McGlone, J. J. 1991. Belief in Science and God: Both require faith and logic. In: Can Scientists Believe? Edited by Sir Nevill Mott (Nobel Laureate for Physics, 1977). James & James, London.
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 9. McGlone, J. J., C. Desaultes, P. Mormede and M. Heup. 1998. Genetics of Behaviour. In: Genetics of the Pig. Editors: M.F. Rothschild and A. Ruvinsky. CAB International. Oxon, UK.
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17. McFarlane, J., G. L. Morris, S. E. Curtis and J. J. McGlone. 1982. Gilts in five gestation environments: behavior and embryonic survival during the first month. ASAS.
18. McGlone, J. J., S. E. Curtis and E. M. Banks. 1982. Social and feeding dominance in young swine. ASAS.
19. McGlone, J. J., T. E. Heald and S. L. Hayden. 1983. Physical and behavioral measures of feeding space for nursery-age swine. ASAS.
20. McGlone, J. J. 1983. Influence of adrenocorticotrophic hormone on swine agonistic behavior and dominance. ASAS.
21. McGlone, J. J., and W. C. Russell. 1983. A computerized analysis of heating and ventilation for livestock buildings. ASAS.
22. McGlone, J. J. 1984. A quantitative ethogram of aggressive and submissive behavior of young pigs. ASAS.
23. McGlone, J. J. 1985. Role of the submaxillary salivary gland and 5 α -androst-16-en-3-one in modulation of swine aggression and dominance. ASAS.
24. McGlone, J. J., and F. Blecha. 1985. Behavioral, immunological and productive traits in four farrowing systems. ASAS.

25. McGlone, J. J., W. F. Stansbury and L. F. Tribble. 1985. Sow and piglet performance during heat stress: effects of air temperature, floor type and snout coolers. ASAS.
26. McGlone, J. J. 1985. Evaluating farrowing environments. Livestock Conservation Institute Annual Meeting.
27. Hawkins, D. E., J. R. Clark and J. J. McGlone. 1986. Effects of confinement, boar exposure and urine from crowded gilts on puberty in gilts. ASAS.
28. Morrow, J. L., and J. J. McGlone. 1986. T-Maze paradigm demonstrates preferences among individual mature boars for estrous or non-estrous sows. ASAS.
29. McGlone, J. J., and J. L. Morrow. 1986. Dose response effects of 5_α-androst-16-en-3-one on nursery pig agonistic behavior. ASAS.
30. McGlone, J. J., W. F. Stansbury and L. F. Tribble. 1986. Aerosolized 5_α-androst-16-en-3-one transiently improved finishing pig gain and feed efficiency. ASAS.
31. McGlone, J. J., W. F. Stansbury and L. F. Tribble. 1986. Effects of heat stress, social stress and their interaction on young pig performance and behavior. ASAS.
32. Stansbury, W. F., J. J. McGlone, J. L. Morrow and L. F. Tribble. 1986. Sow and piglet performance during heat stress: effects of floor type, drippers, snout coolers and fat. ASAS.
33. Shetlar, M. S., J. J. McGlone and C. L. Shetlar. 1987. Preliminary investigation of the effect of maternal alcohol-consumption on newborn swine. Research Communications in Substance Abuse. 8 (3-4): 167
34. McGlone, J. J., J. R. Clark, D. E. Hawkins and J. L. Morrow. 1987. Lack of influence of dominance status on attainment of puberty in swine. SSASAS (Southern Section, ASAS)
35. McGlone, J. J., W. F. Stansbury, J. L. Morrow and L. F. Tribble. 1987. Effects of photoperiod, heat stress and their interaction on sow and litter performance. SSASAS.
36. Richardson, C. R., W. F. Stansbury, L. F. Tribble, J. J. McGlone and W. M. Brooks. 1987. Physical characteristics and pig performance of sorghum-based meal and pelleted diets of two particle sizes. SSASAS.
37. Robbins, R. D., J. J. McGlone, J. L. Morrow and R. A. Long. 1987. Heritability estimates of calf social behavior using identical twins. ASAS.
38. Stansbury, W. F., and J. J. McGlone. 1987. Lack of influence of 5_α-androst-16-en-3-one (androst-16-en-3-one) on sow social behavior and post-weaning return to estrus. ASAS.
39. Morrow, J. L., and J. J. McGlone. 1987. Preference of piglets for odors from sow feces. ASAS.
40. Tribble, L. F., W. F. Stansbury and J. J. McGlone. 1987. Effect of pellets vs meal diets and floor space on performance of nursery pigs. ASAS.
41. McGlone, J. J., R. D. Seyfert, S. Fowler, K. W. Kelley, W. F. Stansbury and J. M. Hellman. 1987. Local and general anesthetic effects on behavior and performance of 14-d old castrated and noncastrated piglets. ASAS.

42. McGlone, J. J., W. F Stansbury and L. F. Tribble. 1988. Evaluation of drip-cooling systems for heat stressed sows. SSASAS.
43. McGlone, J. J., E. W. Fugate, J. L. Morrow, J. R. Clark, C. Chitko, and F. Blecha. 1988. Reproductive performance and immune function of two genetic types of gilts in four gestation environments. ASAS.
44. McGlone, J. J., and J. L. Morrow. 1988. Sloped and level farrowing pens for lactating sows: productivity and behavior data. ASAS.
45. McGlone, J. J., and J. L. Morrow. 1988. Sensory systems and nipple attachment behavior in neonatal pigs. ASAS.
46. McGlone, J. J., M. K. Griffith, and J. R. Clark. 1988. Effects of housing systems and boar exposure on puberty in gilts. ASAS.
47. McGlone, J. J., C. M. Peterman, J. L. Morrow-Tesch, J. L. Salak, and R. J. Hurst. 1989. Heat and social stress effects on pig immune function. ASAS.
48. McGlone, J. J., R. J. Hurst and D. A. Lomax. 1989. Space requirements for finishing pigs in confinement: behavior and performance while group size and space vary. ASAS.
49. Akins, C. K., J. J. McGlone and R. D. Green. 1989. Genetics of pig post-weaning behaviors. ASAS.
50. Shepard, H. H., R. D. Green, R. L. Hennig, T. L. Perkins and J. J. McGlone. 1990. Repeatability of measures of immune response in beef cattle. SSASAS.
51. McGlone, J. J., K. J. Pattison and A. Bjork. 1990. Sequences of aggressive and submissive behaviors of pigs given androstenone, amperozide or chlorpromazine. ASAS.
52. McGlone, J. J., M. L. Gibson, E. A. Miller, R. J. Hurst and J. L. Salak. 1990. Cortisol suppresses in vitro neutrophil chemotaxis and NK cell function. ASAS.
53. Salak, J. L., J. J. McGlone, and R. D. Green. 1990. Heritability estimates of immune function on growing pigs. ASAS.
54. Sells, J. S., J. J. McGlone and R. J. Hurst. 1990. Iron supplementation effects on blood hemoglobin concentration, immune function and performance of piglets. ASAS.
55. Green, R. D., T. L. Perkins, B. L. Hennig, J. J. McGlone and M. L. Gibson. 1990. Relationships among measures of immune response and performance in beef cattle. ASAS.
56. Green, R. D., T. L. Perkins, M. L. Gibson, J. J. McGlone and B. L. Hennig. 1990. Heritabilities of measures of immune response in beef cattle. ASAS.
57. McGlone, J. J., J. L. Salak, E. A. Lumpkin, R. I. Nicholson and R. L. Norman. 1991. Shipping stress and social status effects on pig performance and selected immune measures. ASAS.
58. McGlone, J. J., R. I. Nicholson and D. Herzog. 1991. Development and consequences of castration-induced behavioral changes. ASAS.
59. Nicholson, R. I., and J. J. McGlone. 1991. Environmental influences on pig tail biting, tail posture and performance. ASAS.

60. Salak, J. L., J. J. McGlone and R. L. Norman. 1992. Circadian variation in porcine natural killer (NK) cell activity and the effects of endogenous CRH on NK activity and plasma cortisol. ASAS.
61. Nicholson, R. I. and J. J. McGlone. 1992. The effects sow washing and age of processing piglets on sow and litter performance. ASAS.
62. McGlone, J. J., T. A. Hicks, J. L. Salak, R. I. Nicholson and R. L. Norman. 1992. Crates and girth tethers for gestating and lactating sows: reproductive performance, behavior, immune function and ergonomics. ASAS.
63. Nicholson, R. I., J. J. McGlone and R. L. Norman. 1993. Quantification of stress in sows: comparison of individual housing versus social penning. ASAS.
64. Dailey, J. W. and J. J. McGlone. 1994. Outdoor versus indoor intensive pork production: pregnant gilt behavior. ASAS.
65. Kleinbeck, S. N. and J. J. McGlone. 1994. Outdoor versus indoor pork production: blood hemoglobin and immunoglobulin. ASAS.
66. Salak-Johnson, J. L., J. J. McGlone and R. L. Norman. 1994. Effects of blood cortisol concentrations on porcine natural killer (NK) cytotoxicity and leukocyte distribution. ASAS.
67. McGlone, J. J., M. E. Shaw and E. Wilson. 1994. Outdoor versus indoor intensive pork production: pig productivity. ASAS.
68. McGlone, J. J., T. A. Hicks, E. Wilson, M. Johnston and D. McLaren. 1995. Reproductive performance of Camborough-15 (C-15) and an experimental crossbred line containing Meishan (Exp-94) in outdoor and indoor intensive pork production systems. ASAS.
69. Kleinbeck, S. N. and J. J. McGlone. 1995. Immune status of PIC Camborough-15 (C-15) sows and an experimental PIC sow containing 25% Meishan (Exp-94) and immune status of their offspring in the nursery phase. ASAS.
70. Hicks, T. A., T. Hall and J. J. McGlone. 1995. In vitro stress hormone effects on porcine natural killer (NK) cell activity. ASAS.
71. Fullwood, S., J. W. Dailey and J. J. McGlone. 1995. Behavior and performance of weanling pigs of two genotypes: Camborough-15 and an experimental crossbred line containing Meishan. ASAS.
72. McGlone, J. J., T. A. Hicks, E. Wilson, M. Johnston and D. McLaren. 1995. Reproductive performance of Camborough-15 (C-15) and an experimental crossbred line containing Meishan (Exp-94) in outdoor and indoor intensive pork production systems. ASAS.
73. McGlone, J. J., S. D. Fullwood and R. L. Norman. 1998. Gilt physiology and behavior housed indoors or semi-outdoors in either pens or crates. ASAS.
74. Wiggers, D. L., J. J. McGlone, J. L. Morrow-Tesch and J. W. Dailey. 1998. Behavior of feedlot cattle fed once or three times per day. ASAS.
75. McGlone, J. J. and S. Fullwood. 1998. Dose response effects of central CRH on pig behavior and leukocyte distributions. Poster presentation, American Physiological Society annual meeting. San Antonio, TX.

76. Mitloehner, F. M., J. D. Morrow-Tesch, J. W. Dailey and J. J. McGlone. 1999. Altering feeding times for feedlot cattle reduced dust-generating behaviors. ASAS.
77. Mitloehner, F. M., J. L. Morrow-Tesch, J. W. Dailey and J. J. McGlone. 1999. Effects of water misting and shade on heat stress in feedlot cattle. ASAS.
78. Rachuonyo, H. A., J. L. Morrow-Tesch, J. G. Gentry, D. L. Anderson, S. C. Wilson, J. W. Dailey, H. T. Bird and J. J. McGlone. 1999. Behavior and environmental impact of outdoor gestating sows: effect of cold weather and grass burning. ASAS.
79. Johnson, A. K., J. L. Morrow-Tesch, S. C. Wilson, H. Rachuonyo, J. G. Gentry and J. J. McGlone. 1999. Behavior and performance of lactating Newsham sows and piglets reared indoors or outdoors. ASAS.
80. Morrow-Tesch, J. L., F. M. Mitloehner, J. W. Dailey, S. C. Wilson and J. J. McGlone. 1999. Dust and microbe levels from indoor and outdoor pig units. ASAS.
81. Gentry, J. G., M. F. Miller and J. J. McGlone. 1999. Pork quality of hogs finished on slats and deep-bedding. ASAS.
82. Anderson, D. L. and J. J. McGlone. 2000. Maternal pheromone stimulates feeding behavior and performance of weaned pigs. ASAS.
83. Gentry, J. G., J. R. Blanton, J. J. McGlone and M. F. Miller. 2000. Pork quality of pigs finished indoors or outdoors during the summer months. ASAS.
84. Gentry, J. G., J. R. Blanton, J. J. McGlone, J. Morrow-Tesch and M. F. Miller. Pork quality and muscle characteristics of pigs finished indoors or outdoors during the winter months. ASAS.
85. Johnson, A. K., J. L. Morrow-Tesch and J. J. McGlone. 2000. Fender design and insulation effects of farrowing huts on productivity of outdoor sows and piglets. ASAS.
86. Mitloehner, F. M., J. Morrow-Tesch, S. C. Wilson, J. W. Dailey, M. L. Galyean and J. J. McGlone. 2000. Shade and water misting effects on behavior, physiology, performance and carcass traits of heat stressed feedlot cattle. ASAS.
87. Rachuonyo, H. A., V. G. Allen, W. G. Pond and J. J. McGlone. 2000. Effects of stocking rate and diet on ground cover, soil-nitrate and sow performance in a sustainable production system. ASAS.
88. McGlone, J. J. 2001. Certification programs on farm animal care issues. ASAS.
89. Johnson, A. K., J. L. Morrow, J. W. Dailey and J. J. McGlone. 2001. Behavior of outdoor sows 72 h after parturition: Relation to piglet mortality. ASAS.
90. Mitloehner, F. M., M. L. Galyean and J. J. McGlone. 2001. Shade effects on behavior, performance and carcass traits of heat stressed feedlot cattle. ASAS.
91. Tynan, W. P., J. G. Gentry, A. K. Johnson, H. A. Rachuonyo, J. F. Smith and J. J. McGlone. 2001. Sustainable outdoor pork production. ASAS.
92. McGlone, J. J. 2001. The FASS initiative to develop training materials on farm animal care. ASAS.
93. Rachuonyo, H. A., V. G. Allen, J. L. Morrow-Tesch, J. W. Dailey and J. J. McGlone. 2001. Evaluation of forages for outdoor sows. ASAS.

94. Gentry, J. G., J. Blanton, J. J. McGlone and M. F. Miller. 2001. Diverse birth and rearing housing: effects on pig growth, meat quality and muscle fiber types. ASAS.
95. Anderson, D. L., M. Bellon, B. Chatterton and J. J. McGlone. 2001. P.E.T. Studies of Pig Brain Activity With Biologically Relevant and non-Relevant Odors. Hi-Res 2001 (imaging meeting, focusing on research on technologies like PET scanning of brains).
96. Rachuonyo, H. A., S. W. Kim and J. J. McGlone. 2002. Dynamic model for behavior of outdoor sows with seasonal ambient temperatures. Midwestern ASAS meeting.
97. Kim, S. W., L. E. Hulert, H. A. Rachuonyo and J. J. McGlone. 2002. Iron Bioavailability in young pigs. Midwestern ASAS meeting.
98. Gentry, J. G., M. F. Miller, J. R. Blanton, Jr. and J. J. McGlone. 2002. Environmental effects on pig performance, meat quality, and muscle characteristics. ASAS annual meeting.
99. Kim, S. W., F. Ji and J. J. McGlone. 2002. Reducing odor in swine production: Effect of a natural carbon-mineral supplement on odor reduction. ASAS annual meeting.
100. Kim, S. W. and J. J. McGlone. 2002. Use of a natural carbon-mineral supplement in swine diets: effects on pig growth. ASAS annual meeting.
101. Johnson, A. K. F. M. Mitloehner, J. L. Morrow and J. J. McGlone. 2002. Heat stress in outdoor lactating sows: influence of shaded wallows on behavior, performance and physiology. ASAS annual meeting.
102. Rudine, A., L. Dabovich, L. Hulbert, J. Morrow and J. McGlone. 2003. Rearing pigs indoors and outdoors: effects on pig growth and behavior. Southern Section ASAS meeting.
103. Rudine, A., L. Dabovich, S. Dowd, J. Morrow and J. McGlone. 2003. Rearing pigs indoors and outdoors: effects on immunity and Salmonella shedding. Southern Section ASAS meeting.
104. McGlone, J. J., D. L. Anderson and V. H. Lee. 2003. Prepubertal administration of porcine Epidermal Growth Factor increases litter size. Southern Section ASAS meeting.
105. Dabovich, L. A., L. Hulbert, A. Rudine, S. W. Kim, F. Ji, and J. J. McGlone. 2003. Evaluation of nutraceuticals effects on pig immunity: Effects of Promax. Southern Section ASAS meeting.

SERVICE

A. Committee Memberships And Service Activities

1. *Past Committee Assignments*

1. Competitive Grant Committee (College of Agriculture, U.W.)
2. Teaching Improvement Committee (College of Agriculture, U.W.)
3. Controlled Substances Use Committee (University, U.W.)
4. Broadcast Services Committee (Faculty Senate, U.W.)
5. Patents and Copyrights Committee (Faculty Senate, U.W.)
6. Teaching Committee (Western Section, ASAS, Chairman, Past)
7. Teaching Committee (National, ASAS, Past)
8. Characteristics and Feed Value of Barley and Protein Supplements for Swine Committee (Western Regional Committee, 166, past)
9. Academic Quadrathlon Committee (National, ASAS, past)
10. Teaching Improvement Committee (College of Agriculture, TTU, past)
11. Block and Bridle Advisor (TTU, 1985-1988)
12. Chamber of Commerce Agriculture Committee (Lubbock, past)
13. Swine Research/Teaching Guideline Development (Chairman, National)
14. Regional Committee on Animal Behavior and Care (USDA, Chairman, 1988)
15. Swine Production Model (USDA, through KSU)
16. Religious Instructor (2nd & 12th grades, 1986/90 & 91/94)
17. Animal Care and Use Committee (TTU, 1987-present)
18. Chairman, Agricultural Animal Subcommittee, (TTU, 1988-1997 when the subcommittee was dissolved and merged with the campus committee)
19. Editorial Board Member, J. Anim. Sci. (1983-1986)
20. Section Editor, J. Anim. Sci. (1987-1990)
21. Academic Programs Committee, TTU. (1988/89, chair 1989/90, 1990/1991 & 1991/92)
22. Computer Usage Committee, Ag. College, TTU, 1989-95
23. Member of Task Force to write a scientific assessment of animal welfare issues for CAST.
24. Member of a USDA planning committee to plan a national pig research center.
25. Member of a Task Force to stimulate the Texas pork industry. (1995)
26. Elected Senator to TTU faculty senate, 1993/94-95/96
27. Committee on committees, (Faculty Senate, TTU, 1993-95).
28. Gamma Sigma Delta, the Honor Society of Agriculture, 1993/94 V.P.; 1994/95 President (TTU)

29. Agriculture Awareness Committee, 1993-1995 (member, then Chair, 1995)
30. Member Council on Accreditation for Association for the Assessment and Accreditation of Laboratory Animal Care, International (AAALAC) 1996-2000
31. Chair, FASS Sub-committee on Training based on Ag Guide (developed training package for training users of farm animals in teaching and research).
32. Strategic Research Planning Committee , TTU, 2000
33. Member College of Ag distance learning committee, 1997-1999
34. Member campus-wide distance learning technology committee, TTU, 1997-1999
35. NCR-131, Animal Behavior and Care (former Chair, 1988)
36. USDA – National Research Initiative Competitive Grants program review panel for 1999
37. Member Strategic Planning Academic Task Force, TTU, 2001
38. NCR-131, Animal Behavior and Care (former Chair, 1988)
39. Strategic Planning Committee (Ag College, TTU)
40. Honors and Undergraduate Research (Ag College, TTU)

2. *Current or Recent Service Activities*

1. Advisor to National Pork Board Animal Welfare Committee; member Swine Welfare Index group (2001-present)
2. Advisor to Pork Profit Edge Newsletter (market & information)
3. Neuroscience Advisory Board (TTU inter-departmental program)
4. Strategic Planning Committee (Ag College, TTU), 1999-2001
5. Swine Unit Faculty Supervisor 1989-2002
6. Chairman ACUC, (TTU, 1996-2002)
7. Animal Care Committee (National, ASAS, now FASS, ~1985-)
8. Honors and Undergraduate students in Research Committee (Ag College, TTU), 2000-2001
9. Joint Crisis Management Team (TTU and TTU Health Sciences Center)

B. **Organizer for Producer and Extension Workshops**

1. McGlone, J. J. 1982. Videotape technology. Annual Extension Service Conference.
2. Levis, D. and J. J. McGlone. 1982. Swine artificial insemination clinic. Bridgeport, Nebraska.
3. McGlone, J. J. 1983 and 1984. 4-H Livestock Camp. Douglas, Wyoming (with other Animal Science Extension Specialists).
4. McGlone, J. J., D. Levis and R. Wilson. 1984. Eastern Rocky Mountain Swine Seminar - Breeding herd management. Haysprings, Nebraska; Torrington, Wyoming and Fort Morgan, Colorado.

5. McGlone, J. J. 1985. Farrowing facilities. Texas Tech Swine Short Course.
6. McGlone, J. J. 1985. Hot weather management. Texas Tech Swine Short Course.
7. McGlone, J. J. 1986. Behavioral management. Texas Tech Swine Short Course.
8. McGlone, J. J. 1986. Managing heat stress in the farrowing barn. Texas Tech Swine Short Course.
9. McGlone, J. J. 1987. Farrowing Environments. Texas Tech Swine Short Course.
10. McGlone, J. J. 1987. Managing heat stress in pigs. Venezuelan and Columbian pork producers.
11. McGlone, J. J. and others. 1988. Texas Tech Barrow Conference.
12. McGlone, J. J. and J. Smith. 1992. Breeding/farrowing management. A short course at Texas Tech University.
13. McGlone, J. J. and C. S. Whisnant. 1994. Swine A.I. Texas Tech University.
14. Attended and participated in each annual meeting of the Texas Pork Producers Association from 1985 through 1999. A recruiting table/poster was presented each recent year.
15. Sustainable Pork farm open house. October 1999.
16. Sustainable Pork farm open house and symposium. June, 2000.
17. Organized a 3-day course on sustainable outdoor pig production in Concordia, Santa Catarina, Brazil. March, 2001.
18. Pork Industry review of sow housing issues related to animal welfare, May, 2001.

C. Councils and Boards

1. Member of the Board of Managers for Eclipse Bioscience, LLC., 1998-present
2. Member of Council on Accreditation, AAALAC, International, 1995-2000.
Former Member, Council on Accreditation for Association for the Assessment and Accreditation of Laboratory Animal Care, International (AAALAC) Member COA 1996-2000, Emeritus member 2000-
3. Member and major shareholder of Farm Animal Care Training and Auditing, LLC.