

## **John J. McGlone, Ph.D.**

January, 2019

Professor

Department of Animal and Food Science, and  
Texas Tech University, Lubbock, Texas 79409-2141

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### **Current Activities and Assignments**

Current division of time 70% Research; 30% Teaching

Professor of Animal Science

Institutional Official (for animal care and use) Jan 2007 through Jan 2018

Recent Member of the following committees:

Chair, Animal Care, Use and Standards Committee, FASS (USA; through 2014)

Liaison Member, AVMA Animal Welfare Committee (through 2014)

Advisor to National Pork Board Animal Welfare Committee (USA through 2014)

Member Board of Trustees AAALAC, International, Elected Vice Chair BOT and a member of its Executive Committee (term completed Dec 31, 2014)

Board member to PAACO, representing FASS (through 2015)

Editorial Board, Veterinary Science (<http://www.hindawi.com/isrn/vs/>), Animals. Past Editorial board for

Journal of Animal Science, Professional Animal Scientist, Animal

Consultant to food, production, biotechnology and companion animal firms to understand animal behavior & welfare and improve productivity;

Founder of FACTA, LLC ([www.factallc.com](http://www.factallc.com); sold in 2012 to Frost), McGlone Enterprises, Inc.

Co-founder of Animal Biotech, LLC.

### **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	1991-2013
Professor of Animal Science, Texas Tech University	1994-present
Director, Animal Care Services (provides lab animal care at TTU)	2007-2016
Institutional Official for animal care and use	2007-2018

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### **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

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

AVMA Humane Award, 2015

FASS Service Award, 2015

Bennet J. Cohen Award, AAALAC International, 2015

## **SIGNIFICANT ACCOMPLISHMENTS**

- M.S. and Ph.D. research resulted in 8 refereed publications; awarded Ph.D. in 1981.
- Recipient of Harry Frank Guggenheim Fellow, 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. Appointed to Co-chair the 2010 revision of the Ag Guide (with Janice Swanson).
- Awarded multiple competitive grants from the National Pork Producers Council/National Pork Board, four competitive grants from USDA, and many other private and industry competitive grants.
- Invited to speak and consult in England, Ireland, Australia, Venezuela, Colombia, Taiwan, Belgium, France, Brazil, China, Norway and Sweden on mechanisms controlling pig behavior and stress, sustainable pork production systems, and the science of animal welfare.
- Selected as a "Pacesetter for the 90's" by Hogs Today magazine.
- Grant proposal review panel member for NPPC (over 3 decades) and USDA Competitive Grants (2 program panels), as well as other agencies (such as, USDA-ARS, NSF, Wellcome Foundation, Georgia Academy of Sciences).
- First Animal Scientist to serve on the Council on Accreditation for AAALAC, International. On Board of Trustees, elected to member-at-large, and member of its Executive Committee.
- Received over \$7 million in research support awards.
- First 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 pig production companies to the region 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 and moved to group housing.
- Many of our laboratory's research findings are cited in guides for animal care and husbandry.
- 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 (sold to Frost in 2012).
- Initiated the establishment of Professional Animal Auditor Certification Organization, a non-profit animal welfare auditor-certification program. This is a national collaboration of farm animal scientists and veterinarians.
- Appointed to a National Academy of Sciences panel to write a report on the transportation of animals used in research.
- Appointed Institutional Official and Director Animal Care Services, at Texas Tech University, January 26, 2007 through January 2018. Jointly report to the Vice President for Research and the President, Texas Tech University.
- Invited to testify before Congress on two occasions. In 1989 I represented the state of the science at a hearing to consider the Veal Calf Protection Act (the act did not pass). In 2008, I represented the state of the science before a Congressional Committee investigating the Hallmark/Westland humane issues at that slaughter plant.

- Dog and cat pheromone products are on the market based on research from this laboratory.
- Given the AVMA Humane Award July 12, 2015 (given to one non-veterinarian for research and service in animal welfare)
- Given the FASS Service Award July 13, 2015 for work in agricultural animal care.
- Bennet J. Cohen Award, 2015. This is the highest award given by AAALAC International.
- Distinguished alumni award. Animal Science department. Washington State University. April, 2016.

### **ADMINISTRATIVE EXPERIENCE**

Over the years as a faculty member and a member of a number of professional societies, I have served on numerous committees as a committee member and chair. I have accomplished much as IACUC chair, including leading TTU's first accreditation with AAALAC International (1999). We were one of the first five Agricultural Universities with full campus accreditation. Since then, other universities (ex., University of Illinois, Penn State University, Michigan State University) have followed.

About 15% of the ~\$50 million in research funding at TTU is conducted by animal users. We have over 200 active research or teaching protocols approved and operational.

My current administrative appointment which I have held since 2007 has two components: budgetary and regulatory oversight. For budgetary matters, as Director of Animal Care Services (2007-2015), I report to the Vice President for Research. I transitioned the Director responsibilities to the Associate Director (Tiffanie Brooks, DVM) after 8 years as an executed part of the master plan to develop expertise in Animal Care Services. For regulatory oversight, as Institutional Official (IO; 2007-present), I report to the TTU CEO (President Nellis). I sign on behalf of the University to federal agencies and our accreditation organization that we are in compliance (or dealing with significant issues if that is the case). As IO, when I began this job we were about to be fined by the USDA for non-compliance with federal regulations. I worked swiftly to resolve issues and we avoided the fine and removed the non-compliance. Our accreditation was at risk and it, too, was restored and remains intact. I also implemented a program of professional development for our animal care staff, hired veterinarians and other animal care staff, and have filed all reports completely and on time. Our animal care program does not have any issues at this time.

I also handled many other one-off issues in the VPR office. We had issues with repair of joint TTU-Fish Cooperative Unit facilities that were resolved to everyone's satisfaction. We have managed issues as they arise and effectively resolved them with an aim of enhancing research.

I was appointed as Director of the Institute for Comparative and Experimental Medicine. This new inter-departmental, University-wide Institute selected as its first area of focus Infectious Disease (ID). Over 20 faculty have participated in our vision to bring in new, funded faculty that not only increase research funding by bringing in their own, new funding, but allow our current faculty to be more competitive. We expect to replicate this process in other areas of Comparative Medicine (such as diabetes, heart disease, cancer, addiction, biomedical engineering, medical ethics and law, and other faculty strengths).

As IO, I have engaged TTU in state and national organizations (that we did not participate in before). We are now members of or participate in Texas Society for Biomedical Research (along with each major Texas Research University), the National Association of Biomedical Research, and American Association for Laboratory Animal Science.

I also have administrative experience chairing significant committees such as the revision of the Guide for the Care and Use of Agricultural Animals in Teaching and Research (with Janice

Swanson). This document required coordination of 62 scientist and veterinary authors. And I served on and chaired many committees (detailed in the Service section).

### **Commercialization, Patents and Technology Transfer**

I have participated in or started a number of companies both for profit and non-profit. At the same time, I have obtained patents and others are pending. Getting these products and services to market is an important goal. Supporting these roles, I am active in The Federation of Animal Science Societies, the AVMA (I serve as a non-veterinarian liaison for FASS to the AVMA Animal Welfare Committee. I was also a member of FDA's Center for Veterinary Medicine's scientific advisory committee (among the issues we discussed was acceptance of meat from clones animals, new generation antibiotics and side effects of approved animal health products). In addition, I have advised many faculty on the process to patent and commercialize their technology.

**FACTA, LLC** ([www.factallc.com](http://www.factallc.com)). I am the sole owner and CEO of Farm Animal Care Training and Auditing, LLC. I saw a need for on-farm and at plant assessment and certification of animal care practices and for training of farm and processing plant workers. I formed FACTA in 2002 with business partner and mentor Mr. Bill Patterson (he was former CFO for Premium Standard Farms [PSF]). He guided me through its early development and then I bought out his share when he joined the board of PSF which we deemed a conflict of interest. FACTA provides services to retail customers (ex., Darden Restaurants), and major corporations. FACTA is recognized by USDA as a company that can bring large companies into compliance with federal regulations. FACTA also provides services to pharmaceutical and seedstock companies. FACTA has been profitable each year of its existence. FACTA has accounting and legal staff and a network of animal welfare auditors it draws on to conduct site visits, investigations and training. In 2012, FACTA was sold to Frost. They are expanding its activity.

**McGlone Enterprises, Inc** (no web site). McGlone Enterprises (ME) is an S-corp that was formed to perform consulting outside of the focused areas provided by FACTA. Clients include Sergeant's Animal Health, Pfizer, PIC USA, Elanco Animal Health and others. ME is a profitable S-corp.

**Advanced Livestock Transport, LLC** ([www.advancedlivestocktransport.com](http://www.advancedlivestocktransport.com)). ALT is a start-up company that has developed and sells livestock trailers that provide a more comfortable transport experience. Trailers have an elevator (rather than a ramp), automatic ventilation openers, and side fans for cooling. This start-up company has partners in Spain, Colombia and the USA. ALT is not currently active.

**Eclipse Bioscience, LLC (EB)**. EB was formed to obtain and develop IP of benefit to livestock and other animals. EB was a partnership between Dennis Harms, Bill Patterson and John McGlone. Its signature product was EGF which stimulated litter size in pigs (and other animals). TTU obtained a patent (paid by Eclipse who owned the rights to the technology). Funding for the idea came first from the state of Texas through a competitive grant process, then EB paid \$320,000 (as venture capital) to further develop the technology. The product was bought by Alpharma who paid TTU \$250,000 royalty for the right to develop it further. Alpharma then dropped EGF and other products as they re-focused their portfolio and later was sold.

**PAACO**. Professional Animal Auditor Certification Organization, Inc. (non-profit). ([www.animalauditor.org](http://www.animalauditor.org)). I saw people auditing farms and plants with no expertise in farm animal care. Thus, I formed PAACO with the help of Mr. Chuck Sapp (formerly with FASS). I organized meetings of FASS, ASAS, AASV, AABP and others to sell the idea. I established the by-laws and submitted the legal and financial documents.

**AAALAC International**. ([www.aaalac.org](http://www.aaalac.org)). The Association for the Assessment and Accreditation of Laboratory Animal Care International is a voluntary accrediting organization that enhances the quality of research, teaching, and testing by promoting humane, responsible animal care and use. It provides advice and independent assessments to participating

institutions and accredits those that meet or exceed applicable standards. It has over 60 members of its Board of Trustees and over 40 people on the Council on Accreditation (these people perform site visits internationally and domestically). I was an ad hoc site visitor from 1985 to 1996, a member of the COA from 1996 to 2000 and on the Board of Trustees from 2000 to present. I was elected to the Executive Committee in 2004 and rose to become Vice Chair of the Board of Trustees through 2015.

**Animal Biotech.** This is a start-up company I formed with partners Jim Sowell, Alan Brown and Larry Nouvel. We invest in pre-proof-of-concept ideas and generate data to develop proof of concept. We focus on animal projects that benefit animal agriculture and the public.

**Legal Advice.** I have provided specialized scientific advice to companies and law firms who have had legal issues. Legal issues include animal deaths due to potential negligence or weather activities, or patent infringement. In one recent patent infringement case, I provided detailed scientific opinion about pheromones used in animals.

## Patents

US Patent 6,300,311. Regulation of vertebrate ovarian maturation and function using growth factors. V. H. Lee and J. J. McGlone. October 9, 2001.

US Patent 2014. 8,741,965. Method of administering a pheromone composition to an animal to modify the animal's behavior over an extended period of time. Nouvel, L. and McGlone, JJ. June 3, 2014.

US Patent 2015. 9,044,395. Pheromone compositions and their use to modify behavior in different vertebrate species. McGlone, JJ and Nouvel, L. June 2, 2015.

US Patent 2015. 9,084,411. Livestock identification system and method. McGlone, JJ, Nutter, B., Mitra, S, Ranadip, P. July 21, 2015.

US Patent 2016. 9,521,829. Livestock identification and monitoring. McGlone, JJ, Nutter, B., Mitra, S, Ranadip, P. July 21, 2015. Refined and re-issued Dec 20, 2016.\*

US Patent 2016. 9,480,689. Pheromone composition to stimulate reproduction in female suids and methods of use. McGlone, JJ. Nov 1, 2016. \*

US Patent 2016. 9,480,688. Pheromone compositions and their use to modify behavior in different vertebrate species. Levin, M., and McGlone, JJ. Nov 1, 2016.

Provisional patent. 2019. Use of boar pheromone in developing gilts (submitted).

Provisional patent. 2019. Use of quinoline to change dog behavior (submitted).\*\*

\* Technology licensed to Animal Biotech by TTU.

\*\* Technology licensed to Tevra Brands by TTU

## 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. 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 23 semesters (3 semesters at Univ. Wyoming and 20 at Texas Tech).

- Over 800 students enrolled
- Wrote the textbook *Pig Production* (2002)

#### *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*

This course was started in 1998. The class was team taught first with David Waggoner, JD, 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.

#### *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.

Starting in 2006, the course was divided into two courses: Anatomy of Domestic Animals (2 credit hours) and Physiology of Domestic Animals, with a regular and an honors/advanced class meeting separately. I was the lead instructor for Anatomy in 2006. I taught the honor/advanced Physiology course in 2006 and 2007 (enrollment about 10 students; regular section enrollment is about 70 students). The honors/advanced class is a 4-hour class with a 3-hour laboratory once per week. The laboratory included teaching surgical techniques, and non-survival surgeries in GI, endocrine, neural, cardiovascular and renal physiology laboratories.

#### *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 University is expected to participate in the Fall of 2005. The topics vary each semester on a cycle of about 3 years. The topics include

- Animal Rights Philosophy.
- CRF and Brain Mechanisms of Stress.
- Measuring animal behavior and welfare.
- Stress effects on the immune systems.
- Current animal welfare issues: the science.

*Other full classes taught:*

- Anatomy & Physiology (13 semesters, undergraduates & honors students)
  - Domestic Animal Behavior (5 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:*

<b><u>Class</u></b>	<b><u>Subject</u></b>
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 (Med students)	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).
- McGlone, J. 2006-2007. Breeze modules for Animal Care, and Stress, Behavior and Welfare.

## **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; formerly a Research Animal Scientist with USDA-ARS Livestock Issues Research Unit (passed away).
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, Ph.D., 1990; currently an Associate Professor at the University of Illinois – Champaign-Urbana, IL.
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) Brooks, M.S., 1996, graduated veterinary school (Texas A&M, 2000) and boarded by ACLAM in 2013. Currently she is the Attending Veterinarian at TTU.



12. Mr. Jeff Hill, M.S., 1997, employed with Murphy Family Farms; then a PhD at MSU, then Director of animal welfare and production systems for Premium Standard Farms (purchased by Smithfield).
13. Mr. Michael Heup, M.S., 1998. Currently a computer trainer for Microsoft.
14. Mr. Steve Fullwood, M.S., 1999.
15. Dr. Frank Mitloehner, Ph.D., 2000, Associate Professor at UC-Davis in Animal Science.
16. Dr. Harold Rachuonyo, Ph.D., Dec. 2001-2003, 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 Associate Professor at Middle Tennessee State University in Animal Science.
18. Dr. Anna Butters-Johnson PhD, Dec. 2001: 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. Dr. Craig Lewis, MS student (May 2006). Received his PhD at the Roslin Institute, University of Edinburgh. Then, a Post-Doc in Australia. Now working for PIC as a staff geneticist.
21. Lindsey Hulbert, MS (December, 2006). She completed a PhD in 2010 at TTU and is on a Post-Doc at UC-Davis.
22. Dr. Nadege Krebs, PhD student (October, 2007). Now works for Noldus in France and Europe.
23. Ms. Elizabeth Trumpower. M.S. student. (August, 2011). Now science teacher in the Dallas area.
24. Mr. Avi Sapkota. PhD December, 2012. Now a Post-Doc with USDA-ARS in Indiana.
25. Mr. Garrett Thompson. MS student. May, 2013. Now on staff at Animal Biotech ([www.animal-biotech.com](http://www.animal-biotech.com)).
26. Ms. Brittany Davis. PhD. December, 2013. Now Post-Approval Monitor in the Animal Care Services office at TTU.
27. Ms. Arlene Garica, PhD student Dec, 2014. Faculty at U MN-Crookston, starting Aug, 2015.
28. Mr. Matthew May, MS student, May, 2016.
29. Mr. Guilherme Salgado Picini, MAg student, Dec, 2015.
30. Ms. Glenna Pirner, PhD student, May 2018.
31. Edgar Aviles-Rosa, PhD student (in progress).
32. Lingna Zhang, PhD student (in progress).
33. C. Laney Hixson, PhD student (in progress).

**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. Ms. Alicia Pyle. M.S. 2006. (Animal Science)
20. Ms. Brittany Davis, M.S. 2010 (Interdisciplinary Studies)
21. Ms. Deltora, M.S. 2015 (Animal Science)
22. Ms. Hailey Wooten, M.S. 2016 (Animal Science)
23. Ms. Allison Andrukonis, M.S. 2018 (Animal Science)

### **Additional Teaching Activities**

#### **Multimedia 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 multimedia 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 multimedia 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. I am a faculty mentor in the Howard Hughes Memorial Institute (HHMI) undergraduate research program at TTU. Undergraduate students have been authors on scientific publication and have been award-winning presenters at our Southern Section Animal Science meetings.

#### **On-line, multi-institutional graduate class**

A new class was initiated in a collaboration between Texas Tech University, Iowa State University, and the University of Illinois. The class is Topics in Stress, Behavior and Welfare and includes an on-line weekly session with 6 topics cycling each semester over 3 years. Topics include animal rights philosophy, Brain mechanisms of stress, stress & immunity, measuring welfare, measuring animal behavior and farm animal welfare concerns. The class involves lectures from one of the three to five faculty and student seminars. The class has used the Breeze collaborative software.

### **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: \$6,156,213 + 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. 2006/07. 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. \$83,990.
41. McGlone, J. J. 2006. Training materials for pig workers loading and unloading trucks. Elanco Animal Health. \$50,000.
42. Sutherland, M. and J. J. McGlone. 2007. Long distance transport of breeding stock. National Pork Board and PIC USA. \$117,000.
43. Sutherland, M. and J. J. McGlone. 2007. Is tail docking necessary and if so how long should the tail be? National Pork Board. \$84,614.
44. Sutherland, M. and J. J. McGlone. 2008. Methods to reduce the pain associated with castration. National Pork Producers Board. \$71,127.
45. McGlone, J. J. and Anna Butters-Johnson (Iowa State University). 2010-2013. Bedding and boarding requirements for market pigs during transport. National Pork Board. \$205,000. Repeated for another \$205,000 in 2011/2013.
46. McGlone, J. J. 2011. Pet pheromone evaluations. Sergeant's Animal Health. \$29,000.
47. McGlone, J. J. 2012/13. Rodent pheromones. Control Solutions, Inc. \$90,000.
48. McGlone, J. J. 2012/13. Natural pheromone effects on heart rate and behavior of dogs and cats. Sergeant's Pet Products. \$143,924.
49. McGlone, J. J. 2012. Pfizer Animal Welfare Research: Behavior of immunocastrated pigs. Pfizer Animal Health \$132,061.
50. McGlone, J. J. 2013. Use of bedding in ramp to reduce slips and falls. National Pork Board. \$73,001.00
51. McGlone, J. J. 2013. Time of transport of weaned pigs. National Pork Board. \$75,000.
52. McGlone, J. J. 2013. Facial recognition and body weight determination. Animal Biotech. \$73,500.
53. McGlone, J. J. 2013. TRIP Match for Sergeant's dog and cat pheromone work. \$50,000.

54. McGlone, J. J. 2014. TRIP Match for Zoetis (Pfizer Animal Health) behavior of immunocastrated pigs. \$50,000.
55. McGlone, J. J. 2013/2014. SW Biolabs gift to support research. \$40,000.00.
56. McGlone, J. J. 2014/15. Gift to support dog and cat research. Sergeant's. \$100,000.
57. McGlone, J. J. 2013/15. Facial recognition & body weight determination by image analysis. Animal Biotech. \$75,000.
58. McGlone, J. J. 2015/17. Gift to support dog and cat research. Perrigo Animal Health (formerly Sergeant's). \$250,000 (\$50,000-100,000/year).
59. McGlone, J. J. 2015-2017. Glucocorticoid and pheromone mechanisms in pigs. Animal Biotech. \$500,000.
60. McGlone, J. J. 2017-2019. Refinement of pheromone technologies in pigs. Animal Biotech. \$250,000.

**B. Invited Papers & Talks – over 50 invited talks in the USA and internationally**

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. Malmö, 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 17<sup>th</sup>, 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. 21<sup>st</sup> 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. 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 18<sup>th</sup>, 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. Animal welfare audit training at beef and pork processing. Darden Restaurants. Orlando, FL. Nov 1, 2006.
- 2006. Handling hogs to reduce dead and down pigs. Burlington, Iowa. April 28, 2006.
- 2006. Handling hogs at the processing plant. Excel Corp. Beardstown, IL. May 24, 2006.
- 2007. Gestation sow housing status options. PIC Symposium, April 12, 2007, Nashville, TN.
- 2007. Major pitfalls in animal welfare research. ASAS national meeting, San Antonio, TX. July.
- 2008. Current international sow animal welfare issues. Manitoba Pork Producers. Winnipeg, Manitoba. January 30, 2008.
- 2008. Stress and allergy/asthma. American Association of Allergy and Immunology annual meeting. March 15, 2008. Philadelphia, PA.
- 2008. Workshop on revision to the Ag Guide. Niagara Falls, Canada. July 23, 2008. Poultry Science Association annual meeting.
- 2008. Workshop on revision to the Ag Guide. Scientists Center for Animal Welfare. Las Vegas, NV. October 6, 2008.
- 2009. Living room conversation about animal welfare and rights. PRIM&R. San Diego. March 30, 2009.

- 2009. National Animal Welfare Issue: Gestation Sow Housing. US Congress Ag Committee staff education organized by CAST. May 11, 2009.
- 2009. National Animal Welfare Issue: Gestation Sow Housing. USDA Animal Welfare working group. May 11, 2009.
- 2009. Transportation of pigs: animal welfare and economics. Colombian Pork Expo. July 17, 2009.
- 2010. Conference organizer and speaker at Biotechnology Industry Organization Farm Animal Care meeting in Sioux Falls, SD. Sept. 28-30, 2010.
- 2010. Animal welfare in the pork industry. Caribbean chefs. Sept 23, 2010.
- 2011. Innovations in pig animal welfare. Novus University Day. ST. Louis, MO. July 26, 2011.
- 2011. Pig animal welfare. University of Arkansas symposium. Aug 18, 2011.
- 2011. Bedding use in pig transportation. American Meat Institute Animal Handling Conference. Kansas City, MO. Oct 19, 2011.
- 2012. NAVC. Pheromones in dogs. Orlando, FL. Jan 16, 2012
- 2012. Global Pet Expo. Pheromones to reduce barking in dogs. Orlando, FL. Feb 1, 2012.
- 2012. FASS Webinar on gestation sow housing. May 11, 2012.
- 2012. FASS Webinar on castration. October 8, 2012.
- 2012. Pfizer economists meeting: value of animal welfare. NY. April 22-24, 2012.
- 2012. Pfizer nutritionist's symposia: behavior of boars and immunocastrated males. Sept 13 and Oct 29-30, 2012.
- 2012. Pfizer symposium on alternatives to castration. Miami, FL. Dec, 2012.
- 2013. Zoetis-Canada symposium on immunological castration. April 24, 2013.
- 2014. BIO Livestock Summit. Agricultural animal care. September, 2014.
- 2014. Zoetis Chair and speaker at mini-symposium on castration in pigs. Indiana. September, 2014.
- 2015. Sow housing seminar; Evolution of sow housing systems. National Pork Board seminar, Dallas, TX, Feb, 2015
- 2015. Outdoor sustainable pork production. Grenesboro, NC. NCA&T University seminar for small-scale pork producers. Feb, 2015.
- 2015. Transport of laboratory and other animals: stress mechanisms. AVMA annual meeting. July, 2015.
- 2015. Non-traditional animal care; Ag animals, teaching and wildlife. AAALAC annual meeting, September, 2015.
- 2016. Four talks on animal welfare in Medellin, Colombia. June, 2016.
- 2016. ASAS symposium: Why farm animals are different than rodents in AAALAC accredited facilities. ASAS annual meeting. July, 2016.

### **C. Invited Congressional Testimony**

1989. Hearing on the veal calf protection act.

2008. Hearing on the welfare of farm animals and the use of advanced technologies to audit animal welfare.

### **D. 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.
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## 5. **Abstracts and Proceedings at Professional Meetings (incomplete)—over 150**

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5. Kelley, K. W., F. Blecha and J. J. McGlone. 1978. Effect of acute cold exposure on passively acquired humoral immunity in piglets. ASAS.
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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.

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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.
106. Sutherland MA, Bryer P, Krebs N, McGlone JJ. 2007. Endocrine, hematological and behavioral stress responses to tail docking in pigs. *Cell Stress Chaperones* 12: 5H\_07\_P.
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111. Krebs N, Sutherland MA, McGlone JJ. 2007. Can stress be decreased by exposure to odors or pheromones? Behavioral, immunological and physiological effects. *Proceedings of the 41st International Congress of the ISAE, Merida, Mexico*, pg 81.
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113. McGlone JJ, Sutherland MA. 2007. Towards sustainable livestock production systems. *Proceedings of the 7th Congress of the European Society for Agricultural and Food Ethics, Vienna, Austria*, pp 223-228.
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**[Stopped recording abstracts in 2008]**

## 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 sub-committee 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)
41. Animal Science member of the FDA Center for Veterinary Medicine Veterinary Medicine Advisory Committee. 2003-2007.
42. Member AVMA Task Force on Sow Housing; 2005-2006
43. Member National Academy of Sciences panel on Transportation of Laboratory Animals; report published 2006.
44. Co-Chair of Committee to revise the Ag Guide (Federation of Animal Science Societies). 2008-2010
45. Neuroscience Advisory Board (TTU inter-departmental program; inactive)
46. Strategic Planning Committee (Ag College, TTU), 1999-2001
47. Chairman ACUC, (TTU, 1996-2002)
48. Honors and Undergraduate students in Research Committee (Ag College, TTU), 2000-2001
49. Joint Crisis Management Team (TTU and TTU Health Sciences Center)
50. Chair, Petroleum Engineering Graduate Program review committee, 2010
51. Chair, Federation of Animal Science Societies Animal Care Committee; 2011-present

## *2. Current or Recent Service Activities*

1. Advisor to National Pork Board Animal Welfare Committee; member Swine Welfare Index group (2001-2015)
2. Swine Unit Faculty Supervisor 1989-2002; 2010-2014
3. Institutional Official 2007-present
4. Animal Care Committee (National, ASAS, now FASS, ~1985- ), Chair 2010-2014, member, 2015
5. Member, AVMA Animal Welfare Committee (2010-2014)
6. Member Board of Trustees AAALAC, International, Elected Member at Large, Secretary, Treasurer and Vice Chair of the BOT and a member of the Executive Committee (ended Dec, 2014)

## *3. Community Volunteer and Philanthropic Activities*

I have been involved in community volunteer and philanthropic activities. Among these activities, some activities include:

1. Taught Sunday school for over 10 years at a variety of grade levels.
2. Give to Catholic Family Services to help local poor families
3. Cook breakfast on Thursday mornings for homeless and poor families in Lubbock (when I am in town)
4. Work with St. Benedicts Chapel (a mission church in downtown Lubbock that feeds and cares for homeless people) in a number of ways:
  - a. Provide meals and food
  - b. Serve on their parish council
  - c. Repair the facility as needed
  - d. Help needy individuals financially and with clothes and other needs (ex., sleeping bags, tooth brushes and toothpaste)
5. Work as a volunteer at soup kitchens when I travel (recently in San Francisco I helped cook dinner for over 700 homeless people at Glide Methodist Church)
6. Give to Heifer International ([www.heifer.org](http://www.heifer.org)) -- an organization that donates food animals to poor people in less-developed countries as a way of helping them move out of poverty
7. Work with disadvantaged small farmers in the USA (esp., North Carolina) and around the world in programs directed at small farmers

## **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.
19. Webinars through FASS on Gestation Sow Housing and Castration, 2012.
20. Mini-symposium on Beta Agonists and Animal Welfare, Feb 18, 2014.

**C. Councils and Boards**

1. Member of the Board of Managers for Eclipse Bioscience, LLC., 1998-2002
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-, Member of Board of Trustees 1997-. Elected to its Executive Committee; Currently Vice Chair.

3. Member and major shareholder of Farm Animal Care Training and Auditing, LLC ([www.factallc.com](http://www.factallc.com)), and McGlone Enterprises, Inc.
4. Board Member of Texas Society of Biomedical Research (TSBR).
5. Advisor to National Pork Board Animal Welfare Committee.
6. Chair of Federation of Animal Science Societies (FASS) Animal Care and Use Committee, 2010-2014
7. FASS Representative to AVMA Animal Welfare Committee, 2008-2014
8. Advisor to American Humane Certified program (American Humane Association, Denver, CO) 2007-2011