

CURRICULUM VITAE

NAME: James Daniel McKean

POSITION: Extension Veterinarian
Associate Director, Iowa Pork Industry Center

OFFICE ADDRESS: 1710B Extension Veterinary Medicine
College of Veterinary Medicine
Iowa State University
Ames, Iowa 50011

EDUCATION

University of Illinois
Major: Veterinary Medicine
Degree: Bachelor of Veterinary Science - 1969
Degree: Doctor of Veterinary Medicine (DVM) - 1970

Michigan State University
Major: Veterinary Pathology
Degree: Master of Science (MS) Veterinary Pathology - 1973

Drake University
Major: Law
Degree: Juris doctor (JD) - 1988
Order of the Coif - 1988
Honors Graduate

NATIONAL ACTIVITIES FOR FOOD SAFETY RESEARCH AND IMPLEMENTATION

As Chair of the AASV Pork Safety Committee guided the membership to development of Good Production Practices to reduce physical defects, chemical residues and zoonotic parasites at the production site. The GPPs included an animal welfare/handling section and an audit system to verify successful on-farm implementation. Published in AASV Proceedings, February 2001.

As a member of a field-based research team has focused on the identification and control of risk factors for Salmonella contamination in the peri-harvest environment. We have demonstrated the importance of the ante-mortem abattoir pens as a substantial source of Salmonella contamination. Additional descriptive studies have focused on the microbiology of the ante-mortem pens and potential intervention strategies to limit this abattoir exposure. These relationships point to the interactions of multiple segments of the food chain and the importance of understanding these connections in the development of effective food safety intervention strategies.

As the developer of a novel market swine antibody collection system we have modified the sampling regimen to provide farm-based prevalence for Salmonella antibodies in the Midwestern swine population using the Danish Salmonella classification system. This information will be used to point to potential on-farm intervention investigations. In addition to Salmonella, the prevalence of *Toxoplasma gondii* in Midwestern finishing swine has been surveyed. A link between marketing group size, but not water source, and sero-prevalence has been examined. Such information will assist in development of farm-based intervention strategies.

As a major contributor to the state and national Pseudorabies Eradication program and the Swine Welfare Assessment program I have assisted in development of on-farm measurement and intervention activities applicable to a wide range of pork production systems. Similar activities have been put forth in development of an on-farm risk-based *Trichinella spiralis* control program that may supplant traditional individual carcass tests.

PUBLICATIONS AND INVITED PAPERS:

J. McKean. Quality Assurance and Veterinary Practitioners. Forensics and Risk Management Proceedings, 70th Western Vet. Conf. 1998. p 17-21. Las Vegas, NV

J. McKean, T. Proescholdt, T., P. Turkson, P. Davies, J. Funk, S. Hurd and G. Beran. Salmonella in Commercial Swine from Weaning through Slaughter. Proceedings 3rd International Symposium on the Epidemiology and Control of *Salmonella* in Pork, Washington, DC. 1999. pp 161-164.

J. McKean, I. Wesley, P. Turkson, P. Davies, S. Johnson, T. Proescholdt and G. Beran. *Campylobacter* spp. and *Yersinia enterocolitis* in Growing Pigs in Iowa and North Carolina: A Pilot Study. Iowa State University Swine Research Report. 1999. pp 191-196.

J. McKean, H. S. Hurd, I. Wesley, and L. Karriker. The Effect of Transport and Lairage on *Salmonella* Isolation from Market Pigs. Proceedings American Association of Swine Practitioners Annual Meeting, Indianapolis, IN. 2000. pp 429-434.

J. McKean. Good Production Practices: Vehicle for Enhanced Pork Safety. Proceedings American Association of Swine Veterinarians, Nashville, TN. 2001. pp 279-316.

P. Holden and J. McKean. Botanicals as a Part of an Integrated Value-added Pork Production System. Iowa State University Leopold Center Progress Reports 10:45-48. 2001.

J. McKean. BSE and Foot-and-Mouth Disease. Council for Agricultural Science and Technology, Ames, IA. May 16, 2001.

H. S. Hurd, J. D. McKean, I. V. Wesley and L. A. Karriker. The Effect of Lairage on *Salmonella* Isolation from Market Swine. J Food Prot 64:939-944. 2001.

S. R. Kanuganti, I. V. Wesley, P. G. Reddy, J. McKean, and H. Scott Hurd. Detection of *Listeria monocytogenes* in Pigs and Pork. J Food Prot 65:1470-1474. 2002.

H. S. Hurd, J. D. McKean, R. W. Griffith, I. V. Wesley, and M. H. Rostagno. *Salmonella enterica* Infections in Market Swine with and without Transport and Holding. Appl Environ Microbiol 68:2376-2381. 2002.

A.M. O'Connor, T. Denagamage, J.M. Sargeant, A. Rajic, and J. McKean. Feeding management practices and feed characteristics associated with *Salmonella* prevalence in live and slaughtered market-weight finisher swine: A systematic review and summation of evidence from 1950 to 2005. Prev. Vet Med. 87: 213-228. 2008

AWARDS

1998 - Award of Merit – University of Illinois Alumni Association

1999 - Team Award to TeamPork – Iowa State University College of Agriculture

1999 - Howard W. Dunne Memorial Award - American Association of Swine Practitioners - for outstanding service to the AASP and the swine industry

2000 - University Professor, Iowa State University – for outstanding university service