

Curriculum Vitae

Name: John M. Gay August, 2017

Business Address & Phone: AAHP Field Disease Investigation Unit (509) 335-0785 / 0711
Department of Veterinary Clinical Sciences (509) 335-0880 (FAX)
Washington State University jmgay@vetmed.wsu.edu
Pullman, WA 99164-6610 <http://www.vetmed.wsu.edu/courses-jmgay/>

Education: BS in Mechanical Engineering 6/73 University of Washington
DVM 6/78 Washington State University
Large Animal Clinical Sciences Residency 1983-1987 University of Minnesota
PhD in Veterinary Science 12/88 University of Minnesota

Thesis Title: The Effects of Subclinical Paratuberculosis in Dairy Cattle: An Epidemiological Study

Supporting program: Agricultural economics

Professional Licensure: Idaho, Oregon, Montana, Washington

Board Certification: American College of Epidemiology, 1996
American College of Veterinary Preventive Medicine, 1996

Honor Societies: Phi Kappa Phi, Phi Zeta

Honors and Awards: Squibb Resident Research Award, 1985
Elfros Veterinary District Service Award, 1979
2003 Skillern Award, Chief Kamiakin District, Boy Scouts of America
WSVMA WSU Faculty of the Year Award, 2006

Bibliographic Statement:

Dr. John Gay is an associate professor in the Field Disease Investigation Unit of the Department of Veterinary Clinical Sciences, College of Veterinary Medicine, Washington State University and is responsible for epidemiology and herd production medicine. His research interests are in infectious and production diseases of the bovine, in zoonotic diseases related to food safety and in sustainable agriculture. He was raised on his family's 1,400-head commercial cow-calf ranch and acquired a DVM degree from Washington State University in 1978. He specialized in beef and dairy practice in the northwest for five years before returning to the University of Minnesota to obtain a Ph.D. in veterinary epidemiology and production medicine with economics as an area of special interest.

Present Position: Associate Professor, Epidemiology
AAHP Field Disease Investigation Unit
Department of Veterinary Clinical Sciences
College of Veterinary Medicine
Washington State University

Professional Positions:

Private Practice: 5/78 to 2/79 Animal Management Services Foam Lake, Saskatchewan
2 person; 40% beef, 40% swine, 20% small animal
2/79 to 6/80 Mount Vernon Veterinary Clinic Mount Vernon, Washington
2 person; 50% dairy, 45% small animal, 5% beef & equine
6/80 to 1/82 Valley Herd Health Services Mount Vernon, Washington
1 person; 100% dairy
1/82 to 8/83 North Valley Veterinary Clinic Gooding, Idaho
2 person; 30% dairy, 20% beef, 25% equine, 25% small animal

Academic: 8/83 to 10/87 Large Animal Clinical Sciences Residency, University of Minnesota
11/87 to 6/90 Assistant Professor, Veterinary Medicine Teaching and Research Center (Tulare), University of California, Davis
7/90 to 7/97 Assistant Professor, Washington State University
7/97 to date Associate Professor, Washington State University

Professional Society Memberships and Service:

American Association of Bovine Practitioners	1974 to date
AABP Information Management Committee	1996 to 2002
American Veterinary Medical Association	1974 to date
AVMA Council on Biologic and Therapeutic Agents	2003 to 2009
Evidence-based Veterinary Medicine Association (charter)	2006 to date
Regional Director	2010 to 2013

Academic Committees and Service: (Washington State University)

CAHE Sustainable Food Systems Design Team for Strategic Planning, Member, 2000 to 2001
CVM Information Technology Advisory Committee, Member, 1990 to 1999, Chair 1996 to 1998,
CVM Research Scholars Steering Committee, Member, 1991 to 2000
CVM International Veterinary Education Committee, Member, 1993 to 2001
CVM 14th Annual Western Food Animal Disease Research Conference Organizing Committee, 1992-93
CVM Veterinary Student Mentor Program, 1996 to 2003t
CVM Search Committee for Infectious Disease Epidemiologist, Member, 1999 to 2000
CVM Search Committee for Molecular Epidemiologist, Member, 1999 to 2000
U of Idaho Search Committee for Dairy Production Medicine Clinician, Member, 2000 to 2002
VMP Search Committee for Veterinary Bacteriologist, Member, 1991
VCMS Telephone/Computer Sub-committee of New Hospital Building Committee, Member, 1990-92
VCS Hospital Bio-safety Committee, Member 1997 to 2001.
VCS Search Committee for Department Chair, Member and Chair, 1999 to 2000
VCS Ad Hoc Research Committee for Strategic Planning, Member, 2000 to 2002
WSU/UI Northwest Consortium for Food Safety and Quality, 1994 to 2005
WSU/UM Planning Committee for 8th Congress of International Society for Animal Hygiene, 1992
WSU Health Sciences Library Committee, Member, 2001 to 2007
WSU Advisory Committee to the Science Libraries, Member, 2002 to 2007
U of Idaho Search Committee for Dairy Production Medicine Clinician - Caine, Member, 2003 to 2004
U of Idaho Search Committee for Dairy Production Medicine Clinician - Moscow, Member, 2003 to 2004
VCS Pretenure Advisory Committee, Dr. Bonnie Campbell, 2003 to 2006
VCS Pretenure Advisory Committee, Dr. Janean Fidel, 2003 to 2006
CVM Search Committee for Professor/Baily Endowed Chair, Member, 2004 to 2005
VCS Search Committee for Associate/Full Professor & FDIU Director, Member, 2005
VCS Search Committee for Population Medicine Clinician, FDIU, Member, 2005 to 2007
CVM Search Committee for Veterinary Outreach Specialist (DVM), Chair, 2005 to 2007
CVM Dean's Task Force to Develop a Program in Agricultural Animal Health, Member, 2005 to 2007
WSU Faculty Senate, 2005 to 2009
WSU Institutional Animal Care and Use Committee, 2006 to 2012
U of Idaho Third Year Review Committee, 2007
WSU CVM Coordinator, Agricultural Animal Curriculum – AAVET, 2007 to 2012
WSU CVM Outcome Assessment Project, 2007 to 2009
WSU CVM Academic Planning Task Force, 2008 to 2010
U of Idaho Tenure Review Committee, 2010
WSU CVM Curriculum Committee, 2008 to 2014
WSU CVM Curriculum Committee, Chair, 2010 to 2013
WSU CVM Teaching Academy, 2011 to date

Graduate School Status and Committees (WSU):

Graduate Faculty of the Program in Veterinary Science, Member, 1995 to date

Dr. Alvin L. Forar,	M.S. in Veterinary Science, Member	(M.S., 1993)
Dr. Mark L. Kinsel,	M.S. in Veterinary Science, Member	(M.S., 1993)
Dr. Jerry R. Roberson,	Ph.D. in Veterinary Science, Member	(Ph.D., 1993)
Dr. Tendai Ushe,	M.S. in Veterinary Science, Member	(M.S., 1994)
Dr. M. I. Kamaruden,	M.S. in Animal Science, Member	(M.S., 1994)

Dr. Mike W. Sanderson,	M.S. in Veterinary Science, Advisor	(M.S., 1995)
Dr. Mahmoudou Diall,	M.S. in Veterinary Science, Member,	(M.S., 1997)
Monica Hiner	MS in Fisheries, U of Idaho, Member	(M.S., 1999)
Dr. John Middleton,	PhD. in Veterinary Science, Member	(Ph.D., 2001)
Dr. Andy McKnight	M.S. in Veterinary Science, Member,	1995 to 1996.
Dr. Mike McDole,	Ph.D. in Veterinary Science, Advisor,	1995 to 1997
Dara Nunn	PhD in Entomology, Member,	1998 to 2000
Dr. Jongmin Jeon	M.S. in Veterinary Science, Member,	1998 to 1999
Dr. Bijay Akhikari	PhD in Veterinary Science, Member,	(Ph.D., 2008)
Dr. Andrew Allen	PhD in Veterinary Science, Member,	(Ph.D., 2009)
Bar Church	M.S. in Animal Science, Member,	(M.S., 2007)
Dr. Veerasak Punyanmwithaya	PhD in Vet Science, Member,	(Ph.D 2010)
Dr. Bhim Thapa	M.S. in Veterinary Science, Advisor,	2006
Dr. Sukolrat Boonyaytra	PhD in Veterinary Science, Member,	(Ph.D 2010)
Dr. Jacobo Rodriguez	MS in Veterinary Science, Member,	(M.S. 2010)
Amy Keehner	U of I M.S. in Animal Science, Member,	(M.S., 2012)
Nikki Dalton	U of I M.S. in Animal Science, Member,	(M.S., 2012)
Ben Enger	M.S. in Animal Science, Member,	(M.S., 2014)
Dr. Amos Peterson	M.S. in Veterinary Science, Member,	(M.S. 2016)
Dr. Hussain Alabdullah	PhD in Veterinary Science, Member	(Ph.D 2017)
Jessica Lowe	M.S. in Animal Science, Member	(M.S. 2017)
Andrea Perkins	PhD in Veterinary Science, Member,	2016 to date
Tyler Caskin	M.S. in Animal Science, Member,	2017 to date

Other Professional Service:

Note: Does not include service as anonymous reviewer of manuscripts as part of the peer review process, review of grant proposals for national and international agencies or review of tenure and promotion packets for other institutions.

2014 to 2016	WDFW Elk Hoof Disease Technical Advisory Group, member
2010 to 2013	Evidence-based Veterinary Medicine Association (charter) - Regional Director (elected)
2003 to 2009	AVMA Council on Biologic and Therapeutic Agents, Epidemiologist (elected)
2002 to 2010	Washington State Johnes Advisory and Education Committee, member
2001 to 2013	National Academy of Sciences National Research Council Committee on the Diagnosis and Control of Johnes Disease, panel member.
2000	USDA Review Panel for Program 108: Pre-harvest Pathogen Food Safety Program, panel member.

Funding:

Current Research and Instructional Support:

The effect of a mobile device problem generating app on learning outcomes in a Pharmacology and Anesthesiology course. CVM Teaching Academy ERG program, R Keegan, pi, N Villarino, JM Gay, \$5,000.

Submitted Research and Instructional Support:

Reducing manure-borne zoonotic pathogens with adoption of anaerobic digester technology and compost prior to land application to vegetable crops. OGRD 121228-005 J. Harrison & JM Gay co-pi, USDA Conservation Innovation Grants 9/15 to 8/17, \$418,637. Pending resubmission.

Chlorine dioxide disinfection efficacy under typical livestock farm conditions: A pilot study, Emerging Research Issues for Washington Agriculture, ERI Award Number 16-22, JM Gay pi, Andrew Allen co-investigator, \$19,000. Ranked low, not recommended for funding.

Previous Research and Instructional Support (Washington State University):

2105	The effect of a mobile device problem generating app on learning outcomes in a Pharmacology and Anesthesiology course. \$5,000 CVM Teaching Academy's Educational Research Grant (ERG) Program.
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- 2014 Elk Hoof Disease TAG - Interagency Agreement for WSU Faculty Travel. Dale Moore (PI), G Barrington, T Besser, J Gay, S Parish \$5,000, 10/13 to 6/15.
- 2012 Abdominal Wall Lift tension and locations for Laparoscopy in dogs. WSU Graduate Student and House Officer Research Awards. K. Kennedy, B Fransson, G Roberts, J Gay. 6/12-7/14 \$6,975.
- 2012 Cow-calf Producer Use of Veterinary Preventive Services and Service Innovation: Why don't producers use more services and what further could veterinarians offer? Boehringer Ingelheim Vetmedica, Inc 2012 Student Bovine Research Assistantship Application with P Firth, class of 2014, \$9,208.
- 2008 Northwest Bovine Veterinary Experience Program. C Schneider and W Ayers, PI's. Co-investigator. Primarily industry funded, ~\$185,000 to date.
- 2013 Effects of local anesthetic and oral meloxicam on pain sensitivity in calves following caustic paste disbudding summer research project. Alex Beck, class of 2015, Summer Research Fellowship, First place poster in 15th Annual Student Research Symposium, Category 2.
- 2010 *Mycoplasma bovis* – Draxxin field trial. CS Schneider, PI, co-investigator. Pfizer, \$25,000 (U of I Project).
- 2009 Comparison of thoracic and abdominal volumes during carbon dioxide insufflation vs. abdominal wall lift for laparoscopy in dogs. CS Watkins, PI, BA Fransson co-pi, co-investigator with J Mattoon. Intramural resident competition, \$6,975.
- 2006 Pathogen reduction in a community based anaerobic digester. Co-director with J Harrison. USDA NRCS, 9/06 to 5/10, \$870,001 (with matches ~\$160K through FDIU lab).
- 2006 Perinatal beef calf mortality: An emerging syndrome? WSU CVM Intramural, principal investigator, \$19,003
- 2003 Regional Dissemination of Food and Water-borne Zoonotic Enteropathogens in the Pacific Northwest. Co-principal investigator with DD Hancock, PI, T Besser, D Call, R Cobbold, LK Fox, CC Gay, F Loge, NIH NIAID DMID-04-03 Food and Waterborne Disease Integrated Research Network Initiative, \$9,926,693.(Factors associated with the maintenance and dissemination of *Listeria monocytogenes* on Northwestern U.S. dairy farms and their associated ecosystems, Technical Proposal pgs 125-143)
- 2002 Identifying host-specific markers for fecal pollution using mixed genome microarrays. Co-principal investigator with D Call and F Loge. USDA NRICGP, \$324,906.
- 2003 Identifying the niches of *Listeria monocytogenes* and the risk factors associated with strain maintenance and dissemination on selected dairy farms: A pilot study. Principal investigator, WSU CVM Intramural funds, \$20,328. (not used due to NIH award)
- 2001 CD4+ T-cell IFN- γ expression in bovines infected with *M. paratuberculosis*. Co-principal investigator with G Barrington, W Davis, I Eriks. USDA NRICGP, \$117,208.
- 2001 Factors Affecting the Resistance Profile of Domestic Pet Commensal Enteric Flora. Morris Animal Foundation, \$59,837. Principal investigator with K Mealey.
- 2001 CD4+ T-cell IFN-g expression in bovines infected with *M. paratuberculosis*. WSU CVM Intramural, Co-investigator with G Barrington, \$19,140.
- 2000 Investigation of a novel use of PCR for the detection of *Mycobacterium avium* subsp. *paratuberculosis* in subclinically infected cattle. WSU CVM Intramural, Co-investigator with G Barrington, \$20,023.
- 1998 On-farm risk factors for zoonotic enteropathogens associated with cattle feed and water. FDA, Co-principal investigator with DD Hancock, T Besser, \$484,484.
- 1998 DT104 *Salmonella*: Emerging Impacts on Cattle, Farm Families and the Environment. Fund for Rural America Standard Grant Program. Co-principal Investigator with C Gay and T Besser. \$400,000.
- 1998 VMS 261 Accidents and Diseases distance education course conversion. Tri-State Agricultural Distance Degree Alliance, \$9,000. Co-principal investigator with J Evermann.
- 1998 PCR Detection assay and application in a pilot field study. CVM Intramural Grant. Co-principal investigator with I Eriks. \$30,000.
- 1998 Detection of *Salmonella enterica* serotype Typhimurium by the polymerase chain reaction. American Veterinary Medical Foundation, \$14,311. Co-principal Investigator with M Konkel.

- 1997 Prevalence and Impact of Bovine Neosporosis in Washington Dairy Herds (3rd yr. continuation). Principal Investigator, Washington Dairy Products Commission, \$5,200.
- 1996 The prevention of *Neospora* abortion, phase 1: Identification of vaccine antigens. Co-investigator, WSU intramural funds, \$30,000.
- 1996 Prevalence and Impact of Bovine Neosporosis in Washington Dairy Herds (2nd yr. continuation). Principal Investigator, Washington Dairy Products Commission, \$57,637.
- 1996 Sixth Annual Agriscience Leadership Experience (ASLE) “Agriculture: Real Science, Real Solutions” 10/27/96-10/28/96. \$510 for bovine neosporosis laboratory exercise.
- 1994 The colonization of cattle with *Escherichia coli* serotype O157:H7. Co-Principal Investigator with Besser and Hancock, USDA National Research Initiative Competitive Grants Program, \$294,675.
- 1994 Prevalence and Impact of Bovine Neosporosis in Washington Dairy Herds. Principal Investigator, Washington Dairy Products Commission, \$21,117.
- 1994 Prevalence of and risk factors for herd *Neospora caninum* titers: A between herd case-control study. Principal Investigator, WSU CVM Adler funds, \$9,650.
- 1993 Students in Health Professional School. Co-investigator. NIH-National Center for Research Resources. T35 RR007049 \$2200 per year for support of qualified minority veterinary student.
- 1993 Quality Assurance and Animal Care Youth Educational Program. Co-investigator. USDA Pre-harvest Food Safety and Quality Initiative Program. \$109,615.
- 1992 Lesotho Highlands Water Project Survey Task 5.1: Livestock Disease and Productivity Assessment. Principal Investigator. Lesotho Highlands Development Authority, \$148,444. (102 pp. report under “Other”)
- 1991 Cull Dairy Cow *Salmonella* Prevalence and Isolate Relationship to Animal and Human Salmonellosis Cases. Principal Investigator. Intramural CVM funds, \$15,000.
- 1990 An Initial Study of the Use of Serum D-lactic Acid Levels to Assess Rumen Maladaptation and Feed Management Errors. Principal Investigator. California Milk Advisory Board, \$4,950.

Peer Reviewed Journal Articles:

Published:

- 2017 Cary JA, Farnsworth CH, Gay J, Carroll HS. Stakeholder expectations regarding the ability of new veterinary graduates to perform various diagnostic and surgical procedures. *J Am Vet Assoc* 251(2):172-184.
- 2016 Zeugschmidt EL, Farnsworth CH, Carroll HS, Lucia TA, Hinckley MM, Gay JM, Cary JA. Effects of an optional skills laboratory on surgical performance of third-year veterinary students. *J Am Vet Assoc* 248(6):630-635.
- 2016 Keegan RD, Oliver MC, Stanfill TJ, Stevens KV, Brown GR, Ebinger M, Gay JM. Use of a mobile device simulation as a preclass active learning exercise. *J Nursing Educ* 55(1):56-9.
- 2016 Malavasi LM, Greene SA, Gay JM, Grubb TL. Cardiopulmonary effects of constant-rate infusion of lidocaine for anesthesia during abdominal surgery in goats. *J Am Assoc Lab Anim Sci* 55(4):431-5.
- 2015 Alabdullah KA, Fox LK, Gay JM, Barrington GM, Mealey RH. Effects of dexamethasone and *Mycoplasma bovis* on neutrophil function *in vitro*. *Vet Immunol Immunopatho* 164(1-2):67-73.
- 2015 Enger BD, Fox LK, Gay JM, Johnson KA. Reduction of teat skin mastitis pathogen loads: Differences between strains, dips, and contact times. *J Dairy Sci* 98(2):1354-61.
- 2015 Davies JA, Fransson BA, Davis AM, Gilbertsen AM, Gay JM. Incidence of and risk factors for postoperative regurgitation and vomiting in dogs: 244 cases (2000-2012). *J Am Vet Assoc* 246(3):327-35.
- 2015 Kennedy KC, Fransson BA, Gay JM, Roberts GD. Comparison of pneumoperitoneum volumes in lift laparoscopy with variable lift locations and tensile forces. *Vet Surg* 44 Suppl 1:83-90.
- 2015 Fransson BA, Grubb TL, Perez TE, Flores K, Gay JM. Cardiorespiratory changes and pain response of lift laparoscopy compared to capnoperitoneum laparoscopy in dogs. *Vet Surg* 44 Suppl 1:7-14
- 2014 Kasimanickam R, Asay M, Schroeder S, Kasimanickam V, Gay JM, Kastelic JP, Hall JB, Whittier WD. Calm temperament improves reproductive performance of beef cows. *Reprod Dom Anim* 49(6):1063-1067.

- 2014 Kasimanickam R, Shroeder S, Asay M, Kasimanickam V, Moore DA, Gay JM, Whittier WD. Influence of temperament score and handling facility on stress, reproductive hormone concentrations, and fixed time AI pregnancy rates in beef heifers. *Reprod Dom Anim* 49(5):775-782.
- 2014 Gutierrez K, Kasimanickam R, Tibary A, Gay JM, Kastelic JP, Hall JB, Whittier WD. Effect of reproductive tract scoring on reproductive efficiency in beef heifers bred by timed insemination and natural service versus only natural service. *Theriogenology* 81(7):918-924.
- 2014 Kasmanickam RK, Firth P, Shuenemann GM, Whitlock BK, Gay JM, Moore DA, Hall JB, Whittier WD. Effect of the first GnRH and two doses of PGF₂ α in a 5-day progesterone-based CO-Synch protocol on heifer pregnancy. *Theriogenology* 81(6):794-804.
- 2014 White, J, J Gay, R Farnsworth, M Mickas, K Kim, J Mattoon. Ultrasound elastography of the liver, spleen, and kidneys in clinically normal cats. *Vet Radiol Ultrasound* 55(4):428-434.
- 2013 Noall D, Kasimanickam R, Memon M, Gay J. Neosporosis in cattle. *Clin Therio* 5(2):109-121.
- 2013 Watkins C, BA Fransson, CA Ragle, J Mattoon, JM Gay. Comparison of thoracic and abdominal cavity volumes during abdominal CO₂ insufflation and abdominal lift. *Vet Surg* 42(5):607-612.
- 2013 Might, KR, A Bachelez, SA Martinez, JM Gay. Evaluation of the drawer test and the tibial compression test for differentiating between cranial and caudal stifle subluxation associated with cruciate ligament instability. *Vet Surg* 42(4):392-397.
- 2013 Fugazzi RW, BA Fransson, KM Curran, HM Davis, JM Gay. A biomechanical study of laparoscopic 4S-Modified Roeder and Western knot strength in 3-0 Polyglactin 910 and 3-0 Polydioxanone. *Vet Surg* 42(2):198-204.
- 2013 Fugazzi RW, BA Fransson, HM Davis, JP Gay. Biomechanical strength of two laparoscopic herniorrhaphy techniques in a cadaveric diaphragm and in a neoprene model. *Vet Comp Orthop Traumatol* 26(3):198-203.
- 2013 Lind DL, JL Fidel, JM Gay, KL Mealey. Evaluation of vincristine-associated myelosuppression in Border Collies. *Am J Vet Res* 74(2):257-61.
- 2012 Barry S, BA Fransson, BF Spall, JM Gay. Effect of two instrument designs on laparoscopic skills performance. *Vet Surg* 41(8):988-993.
- 2012 Punyapornwithaya V, LK Fox, DD Hancock, JM Gay, JR Alldredge. Time to clearance of mycoplasma mastitis: The effect of management factors including milking time hygiene and preferential culling *Can Vet J* 53(10):1119-1122.
- 2012 Johns SM, OL Nelson, JM Gay. Left atrial function in cats with left-sided cardiac disease and pleural effusion or pulmonary edema. *J Vet Int Med* 26(5):1134-1139.
- 2012 Watkins C, BA Fransson, CA Ragle, J Mattoon, JM Gay. Comparison of thoracic and abdominal cavity volumes during abdominal CO₂ insufflation and abdominal wall lift. *Vet Surg* 42(5):607-612.
- 2012 Boonyayatra S, Fox LK, Gay JM, Sawant A, Besser TE. Discrimination between *Mycoplasma* and *Acholeplasma* species of bovine origin using digitonin disc diffusion assay, nisin disc diffusion assay, and conventional polymerase chain reaction. *J Vet Diagn Invest* 24(1):7-13
- 2012 Rodriguez JS, Han S, Nielsen S, Pearson LK, Gay JM, Tibary A. Consequences of intrauterine enrofloxacin infusion on mare endometrium. *J Eq Vet Sci* 32(2):106-11.
- 2012 Boonyayatra S, Fox LK, Besser TE, Sawant A, Gay JM, Raviv Z. A PCR assay and PCR-restriction fragment length polymorphism combination identifying the 3 primary *Mycoplasma* species causing mastitis. *J Dairy Sci* 95(1):196-205.
- 2012 Chen AV, Wininger FA, Frey S, Comeau RM, Bagley RS, Tucker RL, Schneider AR, Gay JM. Description and validation of a magnetic resonance imaging-guided stereotactic brain biopsy device in the dog. *Vet Radiol Ultrasound* 53(2):150-156.
- 2011 Ramirez CJ, Minch JD, Gay JM, Lahmers SM, Guerra DJ, Haldorson GJ, Schneider T, Mealey KL Molecular genetic basis for fluoroquinolone-induced retinal degeneration in cats. *Pharmacogenet Genomics* 21(2):66-75.
- 2011 Punyapornwithaya V, Fox LK, Hancock DD, Gay JM, Wenz JR, Alldredge JR. Incidence and transmission of *Mycoplasma bovis* mastitis in Holstein dairy cows in a hospital pen: A case study. *Prev Vet Med* 98(1):74-8.

- 2010 Stauber E, Finch N, Talcott PA, Gay JM. Lead poisoning of bald (*Haliaeetus leucocephalus*) and golden (*Aquila chrysaetos*) eagles in the U.S. inland Pacific Northwest region--an 18-year retrospective study: 1991-2008. *J Avian Med Surg* 24(4):279-87.
- 2010 Punyapornwithaya V; Fox LK; Hancock DD, Gay JM, Alldredge JR. Association between an outbreak strain causing mycoplasma bovis mastitis and its asymptomatic carriage in the herd: A case study from Idaho, USA. *Prev Vet Med* 93(1):66 -70
- 2010 Curran KM, Fransson BA, Gay JM. A comparison of in situ and in vitro techniques for bursting pressure testing of canine jejunum. *Am J Vet Res* 71(3):370-3.
- 2010 Boonyayatra S, Fox LK, Besser TE, Sawant A, Gay JM. Effects of storage methods on the recovery of Mycoplasma species from milk samples. *Vet Microbiol* 144(1-2):210-3.
- 2010 Adhikari B, Besser TE, Gay JM, Fox LK, Hancock DD, Davis MA. Multilocus variable-number tandem-repeat analysis and plasmid profiling to study the occurrence of *bla_{CMY-2}* within a pulsed-field gel electrophoresis-defined clade of *Salmonella enterica* serovar Typhimurium. *Appl Environ Microbiol* 76(1):69-74.
- 2009 Punyapornwithaya V, Fox LK, Gay GM, Hancock DD, Alldredge JR. Short communication: The effect of centrifugation and resuspension on the recovery of *Mycoplasma* species from milk. *J Dairy Sci* 92(9):4444-7.
- 2009 Adhikari B, TE Besser, JM Gay, LK Fox, MA Davis, RN Cobbold, AC Berge, DD Hancock. The role of animal movement, including off-farm rearing of heifers, in the interherd transmission of multidrug-resistant *Salmonella*. *J Dairy Sci* 92(9):4229-38.
- 2009 Adhikari B, TE Besser, JM Gay, LK Fox, MA Davis, RN Cobbold, AC Berge, R McClanahan, DD Hancock. Introduction of new multidrug-resistant *Salmonella enterica* strains into commercial dairy herds. *J Dairy Sci* 92(9):4218-28.
- 2009 Lafuente MP, BA Fransson, JD Lincoln, SA Martinez, PR Gavin, KK Lahmers, JM Gay. Surgical treatment of mineralized and nonmineralized supraspinatus tendinopathy in twenty-four dogs. *Vet Surg* 38(3):380-7.
- 2009 Barbet JL, T Snook, JM Gay, KL Mealey. *ABCB1-1Delta* (MDR1-1Delta) genotype is associated with adverse reactions in dogs treated with milbemycin oxime for generalized demodicosis. *Vet Dermatol* 20(2):111-4.
- 2008 Church GT, LK Fox, CT Gaskins, DD Hancock, JM Gay. The effect of a shortened dry period on intramammary infectious during the subsequent lactation. *J Dairy Sci* 91(11):4219-4225.
- 2008 Mealey KL, J Fidel, JM Gay, JA Impellizeri, CA Clifford, PJ Bergman. *ABCB1-1 Delta* polymorphism can predict hematologic toxicity in dogs treated with vincristine. *J Vet Int Med* 22(4):996-1000.
- 2008 Mealey KL, S Greene, R Bagley, JM Gay, RL Tucker, PR Gavin, K Schmidt, FR Nelson. P-glycoprotein contributes to the blood-brain, but not blood-CSF, barrier in a spontaneous canine P-glycoprotein knockout model. *Drug Metab Dispos* 36(6):1073-1079.
- 2008 Martin, LG, TY Luther, DC Alperin, JM Gay, SA Hines. Serum antibodies against human albumin in critically ill and healthy dogs. *JAVMA* 232:1004-1009.
- 2007 Mealey, KL, JM Gay, LG Martin, DK Waiting. Comparison of the hypothalamic-pituitary-adrenal axis in MDR1-1Δ and MDR1 wildtype dogs. *J Vet Emerg Crit Care* 17:61-66.
- 2007 Gay, CC, A Tibary, KE Panter, KL Mealey, JM Gay, SW Hjartarson, E Motteram, T Wierenga, LF James. Lupine-induced crooked calf diseases: plasma disposition of lupine alkaloids following repeated challenge in cattle that have given birth to affected calves or those that have borne normal calves. *Poisonous Plants: Global Research and Solutions*, CABI International, 151-155.
- 2007 Gay, CC, KE Panter, E Motteram, JM Gay, H Hantz, T Wierenga, T Platt. Risk factors for lupine-induced crooked calf disorder in East-central Washington State. *Poisonous Plants: Global Research and Solutions*, 156-164.
- 2007 Gay, CC, KE Panter, ES Motteram, JM Gay, T Wierenga, T Platt. Effect of shade on alkaloid content of *Lupinus leucophyllus*. *Poisonous Plants: Global Research and Solutions*, 411-413
- 2007 French B, DW Hird, PS Romano, RH Hayes, AM Nijhof, F Jongejan, DJ Mellor, RS Singer, AE Fine, JM Gay, RG Davis, PA Conrad. Virtual International Experiences in Veterinary Medicine: An Evaluation of Students' Attitudes toward Computer-Based Learning. *J Vet Med Educ* 34:502-509.

- 2006 Gay, JM. Neosporosis in Dairy Cattle: An update from the epidemiology perspective. *Theriogenology* 66:629-632.
- 2006 Gay, JM. Theriogenology and Developments in Epidemiology: Future Opportunities? *Theriogenology* 66:526-533.
- 2006 Soule M, Kuhn E, Loge F, Gay J, Call DR. Using DNA microarrays to identify library-independent markers for bacterial source tracking. *Appl Environ Microbiol* 72(3):1843-51.
- 2004 Gay CC, Panter KE, Mealey KL, Gay JM, Hjartarson, SW, Tibary A, Motteram ES, Wierenga T, James LF. Comparison of plasma disposition of alkaloids after lupine challenge in cattle that had given birth to calves with lupine-induced arthrogryposis or clinically normal calves. *AJVR* 65:1580-1583.
- 2004 Rothschild CM, Sellon DC, Bryan GM, Gay JM, Hines MT. Effects of trimethoprim-sulfadiazine on tear production and the fluctuations of Schirmer tear test values in horses. *Vet Ophthalmol* 7:385-90.
- 2004 Rothschild CM; Hines MT; Breuhaus B; Gay J; Sellon DC. Effects of trimethoprim-sulfadiazine on thyroid function of horses. *J Vet Intern Med* 18:370-373.
- 2003 Moore, BC, E Martinez, JM Gay, DH Rice. Survival of *Salmonella enterica* in freshwater and sediments and transmission by the aquatic midge, *Chironomus tentans* (Chironomidae: Diptera). *Appl Environ Microbiol*. 69:4556-60.
- 2003 Bergsten C, PR Greenough, JM Gay, WM Seymour, CC Gay. Effects of biotin supplementation on performance and claw lesions in dairy cows on a commercial farm. *J dairy Sci*. 86:3953-3962.
- 2003 Mealey, KL; SA Bentjen; JM Gay; HL Hosick. Dexamethasone treatment of a canine, but not human, tumour cell line increases chemoresistance independent of P-glycoprotein and MRP expression. *J Vet Compar Oncol* 1:67-75.
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Webcasts:

- 2011 Anaerobically Digested Manures: Effect of Anaerobic Digestion of Dairy Manure on Fate of Bacteria - Part 2, May 21 <http://www.extension.org/pages/58508/anaerobically-digested-manures>

Authored Internet Web Materials: (Website index page <<http://people.vetmed.wsu.edu/jmgay/courses/> . . . >)

Basic Concepts for Cow-Calf Herd Health Programs	< . . . /FDIUCowCalfHH.htm>
Bovine Herd Salmonellosis: <i>Eleven Characteristics to Keep in Mind</i>	< . . . /FDIUHerdSalmonella.htm>
Clinical Epidemiology & Evidence-Based Medicine Glossary	< . . . /GlossClinEpiEBM.htm>
Conditions for Producers' Use of Livestock Drugs	< . . . /VMADProducerDrugs.htm>
Epidemiology Concepts for Disease in Animal Groups	< . . . /EpiMod2.htm>
Guide for Herd Problem Investigations	< . . . /OutBGuide.htm>
Guidelines for Assessing Professional Information	< . . . /EvalGuide.htm>
Introduction to Epidemiology	< . . . /EpiMod1.htm>
Introduction to Herd Production Medicine	< . . . /PMIntroduction.htm>
Introduction to the Beef Cattle Industry and the Veterinarian's Role	< . . . /POEBeefIndustry.htm>
Sanitation in the control of livestock infectious disease	< . . . /FDIUSanitation.htm>
Veterinary Medicine and the Philosophy of Science	< . . . /EpiPhil.htm>

pdf's: base URL: < <http://people.vetmed.wsu.edu/jmgay/courses/> . . . >

Ag vet business book list	< . . . /HPM-AgVeterinarianBusinessBookList.pdf>
Basis of Marketplace Economics	< . . . /AppliedEconomics.pdf>
Capital Management and Investment Decisions	< . . . /VM577OwnershipCosts.pdf>
Evidence (and opinions) on the Future of Ag Animal Practice	< . . . /AgAnimalPracticeFuture.pdf>
HPM – Personal Strategic Planning	< . . . /HPM-PersonalStrategicPlan.pdf>
HPM – Producer Enterprise Budget Exercise	< . . . /HPM-ProducerEnterpriseBudgetExercise.pdf>
HPM - Professional Service Fee Exercise	< . . . /HPM-ProfessionalServiceFeeExercise.pdf>
HPM - Veterinary Marketing and Salesmanship	< . . . /HPM-VeterinaryMarketingandSalesmanship.pdf>
Small Animal Skills for the Ag Animal Focused Student	< . /SA KnowledgeAndSkillsForAgAnimal.pdf>

Assembled Web Materials: (Website index page <<http://www.vetmed.wsu.edu/courses-jmgay/> . . . >)

Ag Animal Curriculum Resources	< . . . /AgCurriculumResources.htm>
Agricultural Veterinarian Business Information Resources	< . . . /AgVetBusinessRefs.htm>
Food Labeling: What is it, who does it, what are the rules, . . .	< . . . /PMFoodLabeling.htm>
Herd Problem Investigation Resources for Veterinarians	< . . . /OutBResources.htm>
In-Print & On-line Production Medicine Information Resources	< . . . /PMCurrentProdMedRefs.htm>
International Veterinary Work	< /InternationalVeterinaryWork.htm>
Non-veterinary Focused Reading Lists for Veterinarians	< . . . / NonVetReadingLists.htm>
The Ag Animal Veterinarian's Information Environment	< . /AgAnimalInformationEnvironment.pdf>
VMS 576 – Introduction to Clinical Research Links & Resources	< . . . /ClinicalResearchIntro.htm>

Other:

- 2008 Gay, JM. Recruiting Ag Animal Veterinarians. *Veterinary Medicine Extension Newsletter* 2(1):2-3.
- 2007 Gay, JM. Pharmaceutical Compounding: The good, the bad and the ugly. *Insight* 1(3):8-9.

- 2000 Gay, JM, JF Evermann. Update on Johnes Disease. Washington Dairy Newsletter, December.
- 1993 Gay, JM, ME Goe, S Ryland. LHDA Contract No. 74 Baseline Epidemiological Survey Sub-task 5.1 Livestock Disease and Productivity Survey Final Report. 102 pages. Accepted by Lesotho Highlands Development Authority, Maseru, Lesotho, May, 1993.
- 1986 Gay, JM. TI-59 Program for DHIA-Type Statistics. in: Kirk, JH. "Programmable Calculator Uses in Herd Reproductive Health Programs for Dairy Cattle", pp. 418-422 in: Morrow, DA (ed). Current Therapy in Theriogenology, 2nd ed., WB Saunders Co., 1986.

Presentations and Seminars:

- 2015 Livestock Production and the Perfect Storm: Surprises in store? – VCS Morning Ag Group, 2/3/15
- 2014 Considerations on Medical Error from an Epidemiologist's Perspective. WSU Common Reading Program 2013-14, Mar 25.
- 2013 Cause: A few principles from epidemiology. Oct 16 WDFW elk meeting, Chehalis, WA.
- 2013 Toastmasters: *Herding butterflies into formation*. VCS Faculty Resident Seminar, August 9.
- 2012 The Brain Changers. WSU CVM Teaching Academy Seminar, Sept. 26.
- 2012 Thinking Science. FDIU Seminar, Sept 14.
- 2011 Knowing What Isn't So: Evidence-based medicine. VM 508, November 7.
- 2010 Disease Outbreak Investigations Using Salmonella as a Model, Dr. O.M. Radostits Trust, 2010 WCABP Conference, Calgary, AB, January 14-16 (invited).
- 2009 Cause. FDIU Seminar, September 9.
- 2009 Food supply veterinary medicine, livestock production and global change: The perfect opportunity? 79th Washington State FFA Convention, Pullman, WA, May 14-16.
- 2009 Speaking with PowerPoint: *Tips, traps and rules of thumb*. Toastmasters District 9 Spring Conference, Lewiston, ID, April 17-18.
- 2009 The Dirt on *Listeria*: Where it comes from, why it is a problem and what to do about it. BCVMA Mid-winter Ski and CE Conference Notes, Kamloops, BC, January 30-31.
- 2009 Foodborne Disease and *Listeria*: Putting both into Perspective. BCVMA Mid-winter Ski and CE Conference Notes, Kamloops, BC, January 30-31.
- 2009 Battling the Bugs: Enteric pathogen update. BCVMA Mid-winter Ski and CE Conference Notes, Kamloops, BC, January 30-31.
- 2009 Knowing what isn't so: Practicing evidence-based medicine. BCVMA Mid-winter Ski and CE Conference Notes, Kamloops, BC, January 30-31.
- 2009 Global Change and Livestock Production: *The Perfect Storm?* BCVMA Mid-winter Ski and CE Conference Notes, Kamloops, BC, January 30-31.
- 2008 Climate Change and Livestock Production: *The Perfect Storm?* National Mastitis Council 47th Annual Meeting, New Orleans, LA, January 20-23, (invited keynote address)
- 2007 Neospora: Does it Make Sense to Monitor and Control it? 40th Annual Conference of the American Association of Bovine Practitioners, Sept. 20-22, Vancouver, BC. (invited)
- 2007 Veterinarians & Drugs: *Some* of the rest of the story. Small Ruminant Club, Nov 8, WSU CVM.
- 2007 Why EBM? The story from the human medicine side of the fence, VCS Faculty-Resident Seminar, Jan 10, WSU CVM
- 2006 Theriogenology and Developments in Epidemiology: Future Opportunities?. Annual Conference & Symposia, Society for Theriogenology / American College of Theriogenologists, St. Paul, MN August 22-26. (invited)
- 2006 Veterinarians & Drugs: *Some* of the story. Eastern Idaho Veterinary Medical Association Meeting, Oct. 13, Idaho Falls, ID.
- 2006 Neosporosis in Dairy Cattle: An update from the epidemiology perspective. Annual Conference & Symposia, Society for Theriogenology / American College of Theriogenologists, St. Paul, MN August 22-26. (invited)

- 2006 Why EBVM? An approach to understanding why from the human cognition perspective. 2nd Symposium on EBVM: Incorporating Evidence-Based Principles into Veterinary Medicine, Mississippi State University, Starkville, MS, June 14-15. (invited)
- 2006 An Overview of Biosecurity in Beef and Dairy Herds. 15th Annual Conference of the Western Canadian Association of Bovine Practitioners, Calgary, Alberta, January 19-21. (invited)
- 2005 Herd Biosecurity: Underlying Principles and Problems. Okanogan Cattlemen's Association, Okanogan, WA, December 3, 2005
- 2005 The Wide World of Epidemiology. Explore 2005: Veterinary Medicine. (invited high achieving high school students). September 24, 2005.
- 2003 Observations on the Infectious Disease War: *A New Paradigm!* Dairy Health Management Certificate Program. Module 6: Infectious Disease, University of Guelph, Guelph, Ontario, Oct. 7-12.
- 2003 Herd Biosecurity: *Underlying Principles and Problems*. Dairy Health Management Certificate Program. Module 6: Infectious Disease, University of Guelph, Guelph, Ontario, Oct. 7-12.
- 2003 Getting Beyond: *Where do we need to go from here? How do we get there?* Dairy Health Management Certificate Program. Module 6: Infectious Disease, University of Guelph, Guelph, Ontario, Oct. 7-12.
- 2003 Dairy Herd Salmonellosis. Dairy Health Management Certificate Program. Module 6: Infectious Disease, University of Guelph, Guelph, Ontario, Oct. 7-12.
- 2003 How to Approach Herd Outbreaks. Dairy Health Management Certificate Program. Module 6: Infectious Disease, University of Guelph, Guelph, Ontario, Oct. 7-12.
- 2003 Herd Biosecurity: *Underlying Principles and Problems*. 2003 Annual Conference for Veterinarians and Veterinary Technicians, Pullman, WA, April 4-5.
- 2001 Dairy Producer 2001 Enteric Disease Research Update. Washington-Idaho Dairy Producer Study Group Meeting, November 13-14, Moscow, Idaho.
- 2001 NAS Study on the Diagnosis and Control of Johne's Disease. US Animal Health Association Annual Meeting, November 1-8, Hershey, Pennsylvania.
- 2001 Rural Water: Potential impacts on Human Health. 2001 Food Safety Farm to Table Conference, Northwest Food Safety Consortium, May 30-31, Moscow, ID.
- 2001 *E. coli* O157:H7 in well water: How does it happen and what can be done about it? 2001 Annual Conference for Veterinarians and Veterinary Technicians, April 6-7, 2001 - Pullman, Washington
- 2000 Update on Johne's Disease. Central Washington Dairy Management Committee, November 14, 2000.
- 1999 Epidemiology of *Salmonella typhimurium* DT104 on dairy farms. 94th Annual Meeting of the American Dairy Science Association, Memphis, TN, June 20-23, 1999. (invited)
- 1999 Salmonella, including DT104. Dairy Health Management Certificate Program Annual Update Meeting, Ontario Veterinary College, Guelph, Ont, CA, June 1-3, 1999. (invited)
- 1998 Salmonella, including DT104. 31st Annual Conference of the American Association of Bovine Practitioners, Spokane, WA, Sept. 21-26, 1998.
- 1998 Seminar 25: Looking Forward to Practice. Seminar coordinator and moderator. 31st Annual Conference of the American Association of Bovine Practitioners, Spokane, WA, Sept. 21-26, 1998.
- 1998 *Salmonella typhimurium* DT104. Northwest Food Safety Consortium 6th Annual Farm to Table Food Safety Conference, Moscow, ID, May 27, 1998.
- 1998 An epidemiological critique of bovine lameness research: Where do we go from here? WSU CVM Annual Conference for Veterinarians and Veterinary Technicians, Pullman, WA, April 4, 1998.
- 1997 Bullet-proofing Your Herd: Concepts for Avoiding Nasty Wrecks. WSU Managing for Profitability Seminar Series. Animal Transmitted Diseases: How Safe is Your Farm? October 13, Chehalis, WA, October 14, Lynden, WA, October 15, Monroe, WA, October 16, Sunnyside, WA, October 17, Moses Lake, WA.
- 1997 Preventing and Controlling Salmonellosis on the Farm. Managing for Profitability Seminar Series. Animal Transmitted Diseases: How Safe is Your Farm? October 13, Chehalis, WA, October 14, Lynden, WA, October 15, Monroe, WA, October 16, Sunnyside, WA, October 17, Moses Lake, WA.

- 1997 Managing Cryptosporidiosis. Managing for Profitability Seminar Series. Animal Transmitted Diseases: How Safe is Your Farm? October 13, Chehalis, WA, October 14, Lynden, WA, October 15, Monroe, WA, October 16, Sunnyside, WA, October 17, Moses Lake, WA.
- 1997 Digital Dermatitis. Managing for Profitability Seminar Series. Animal Transmitted Diseases: How Safe is Your Farm? October 13, Chehalis, WA, October 14, Lynden, WA, October 15, Monroe, WA, October 16, Sunnyside, WA, October 17, Moses Lake, WA.
- 1997 Salmonella DT104 on the Farm. National Academy of Sciences Forum on Emerging Diseases. July 30-31, Washington, D.C. Invited presentation.
- 1997 Tackling herd salmonellosis problems. 1997 Minnesota Dairy Health Conference, May 22, 1997, St. Paul, Minnesota.
- 1997 Managing Cryptosporidiosis: An Update. 1997 Minnesota Dairy Health Conference, May 22, 1997, St. Paul, Minnesota.
- 1997 Salmonella DT104 in Animals and Humans in Washington State. Salmonella Typhimurium DT104 Workshop, CDC, Atlanta, Georgia, May 1, 1997.
- 1997 Crohn's Disease: A foodborne zoonoses? Emerging Food and Waterborne Pathogens. 5th Annual Food Safety Farm to Table Conference, Moscow, ID. March 12-13, 1997.
- 1996 Developing an on-farm quarantine program to prevent disease transmission. 1st Annual Cattle Health Seminar, Pullman, WA, November 9, 1996.
- 1996 Neosporosis in Washington dairy herds. WSU Dairy Council Meeting, Pullman, WA, May 21, 1996.
- 1995 Risk Factors for Trichomoniasis in Idaho Beef Herds: A Preliminary Investigation Based on Secondary Data. June 30, 1995, The Ohio State University, Columbus, Ohio.
- 1995 Risk Factors for Trichomoniasis in Idaho Beef Herds: A Preliminary Investigation Based on Secondary Data. June 29, 1995, Ohio Agricultural Research and Development Center, Wooster, Ohio.
- 1995 Research Topics: Neospora Update. WSU CVM Annual Conference for Veterinarians and Veterinary Technicians, Pullman, WA, March 25, 1995.
- 1994 Fecal *Salmonella* Shedding by Cull Dairy Cattle. Northwest Center for the Safety and Quality of Meat and Dairy Products Seminar Series, Pullman, WA, April 7, 1994.
- 1994 Abortions Due to Neospora spp: How Big a Problem is It? WSU CVM Annual Conference for Veterinarians and Veterinary Technicians, Pullman, WA, March 25-26, 1994.
- 1994 Digital Dermatitis in Dairy Cattle. Presentation to Yakima Valley dairy veterinarians, extension and allied industry personnel. January 6, 1994, Tillacum Inn, Sunnyside, WA.
- 1993 The Epidemiology of Coliform Mastitis: An Overview. WSU CVM Coliform Mastitis Symposium, Pullman, WA, March 27, 1993.
- 1992 Foodborne Salmonellosis. Cooperative Extension Workshop on Food Safety from Farm to Table. Pullman, WA, November 9-10, 1992.
- 1992 FDIU Dairy Research Update. 1992 WSU Dairy Council Meeting, Puyallup, WA, January 6-7, 1992.
- 1991 ECONOMAST: A Monte Carlo Simulation Model of Dairy Herd Mastitis. Ecology of Infectious Disease Seminar, Pullman, WA, October 16, 1991.
- 1991 Biostatistics and Epidemiology for Practitioners. Masters of Swine Medicine Program, University of Minnesota, St. Paul, MN, May 3 to May 12, 1991. Invited.
- 1991 Clinical Trials for Food Animal Practitioners. WSU College of Veterinary Medicine Annual Conference for Veterinarians, Pullman, WA, April 5-7, 1991.
- 1990 Selecting Computer Hardware and Software. Homecoming Weekend CVM CE course "Making the Most of Your Practice Computer (for Other Than Business Management)", Pullman, WA. September 29, 1990.
- 1990 Using Cornell Consultant. Homecoming Weekend CVM CE course "Making the Most of Your Practice Computer (For Other Than Business Management)", Pullman, WA. September 29, 1990.
- 1990 Endemic Subclinical Multi-serotype *Salmonella* Infections in a Large Commercial Dairy Herd. UCD VMTRC Seminar Series, Tulare, CA. March 17, 1990.

- 1988 The Effects of Subclinical Paratuberculosis on the Dairy Cow. Kansas State University, Manhattan, Kansas, December 13, 1988.
- 1988 Cattlemen's Workshop: Animal Health - Ideas to Grow With. 1988 Annual Meeting of the California Cattlemen's Association, Sacramento, CA. December 2, 1988.
- 1988 Beef Cattle Health Seminar. 4-H Leader's Animal Health Day, Davis, CA. Nov. 19, 1988.
- 1988 Cattlemen's Workshop: General Principles Behind the Use of Drugs and Vaccines. Cattlemen's Day, Midstate Fair, Paso Robles, CA. August 5, 1988.
- 1986 Studies of Johne's Disease in Dairy Herds. 90th Annual Meeting of the United States Animal Health Association, Louisville, Kentucky, October 16-21, 1986.
- 1986 The Impact of Fecal Sample Handling and Processing on Johne's Culture Results. 90th Annual Meeting of the United States Animal Health Association, Louisville, Kentucky, October 16-21, 1986.
- 1986 An Overview of Bovine Paratuberculosis Research at the University of Minnesota. Third Northeast Meeting on Paratuberculosis, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY, September 8-9, 1986.
- 1985 Clinical Epidemiology. 1985 Dairy Herd Health Programming Conference, University of Minnesota, June 5-6, 1985.