

Radford G. Davis, DVM, MPH, Diplomate ACVPM

Education

MPH – University of Arizona, 1997

DVM – Colorado State University, 1991

Undergraduate – Weber State University (1984-1987)

Board Certification

American College of Veterinary Preventive Medicine (2002)

Licenses to Practice Veterinary Medicine

Iowa #7569

Positions Held

Associate Professor, Dept. of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine Iowa State University, Ames, IA, 2007-present.

Instructor, Des Moines University, Des Moines, IA, 2008-present. Teach public health, zoonoses, epidemiology.

Adjunct Assistant Professor, Dept. of Epidemiology, College of Public Health, University of Iowa, Iowa City, IA, 2006-2009.

Assistant Professor, Dept. of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine Iowa State University, Ames, IA, 2001-present.

Instructor on Agriculture Security, Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA, 2004-2005.

Assistant Director, Center for Food Security and Public Health, Dept. of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA, 2002-2005.

Adjunct Assistant Professor of Public Health, Dept. of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine Iowa State University, Ames, IA, 1998-2001.

Occupational Health and Safety Consultant, Environmental and Occupational Health Unit, Arizona Prevention Center, University of Arizona, Tucson, AZ, 1997-1998.

Graduate Research Associate in Pathobiology, Dept. of Veterinary Science and Microbiology, University of Arizona, Tucson, AZ, 1995-1997.

Small animal emergency veterinarian, Grant Road Veterinary Clinic, Tucson, AZ, 1991-1998.

Consulting

Subject Matter Expert on zoonoses and public health to Veterinary Information Network. VIN is a company that offers online resources, continuing education, practitioner support and on-line classes to the international veterinary profession. <http://www.vin.com> 2007-present.

Consultant on veterinary and public health issues for Gerson Lehrman Group, NY, 2005-present.

Subject Matter Expert on agroterrorism, veterinary emergency response and public health for the Mobile Education Team, Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA, 2004-present. The MET program is an intensive half-day seminar on Homeland Security designed to help strengthen U.S. capability to prevent, deter, and respond to domestic terrorist attacks, and to build intergovernmental, interagency, and civil-military cooperation. The MET seminar focuses exclusively on enhancing the capacity of top government officials to successfully address new Homeland Security challenges. For states, the target audience is the Governor and his/her Homeland Security team. The MET seminar is also available for major urban area senior Homeland Security leaders.

Consultant to Innovative Emergency Management (IEM), Inc., Baton Rouge, LA, on emergency preparedness and response in agriculture, 2006. Assisted in running the Dept. of Homeland Security, Pilot Capabilities Assessment of states/jurisdictions to meet the Target Capabilities List capabilities and outcomes. State of FL (2006). Work was in coordination and under the Dept. of Homeland Security, Office of Grants and Training.

Consultant to Innovative Emergency Management (IEM), Inc., Baton Rouge, LA, on emergency preparedness and response in agriculture, 2006. Assisted in the National Plan Review of all states & urban areas of their emergency operations. State of FL (2006). Work was in coordination and under the Dept. of Homeland Security, Office of Grants and Training.

Consultant for Gerson Lehrman Group, NY on petting zoos in the U.S. (2005)

Consultant to Abt Associates, Bethesda, MD on developing biosecurity information for the U.S. Agency for International Development (USAID) for use by exporters of developing countries (2004).

Consultant to Government Accountability Office on agroterrorism and their subsequent publication on this topic (2004).

Other Professional Activities

Reviewer for JAVMA. Anthrax in Humans and Animals, 4th ed. edited by Peter Turnbull and Ottorino Cosivi (2009)

Dr. Rohini Roopnarine, St. George's University, Grenada, requested to utilize the epidemiological teaching materials and study questions that I created and use in VMPM 388 for her teaching purposes (2008).

Reviewer for Emerging Infectious Disease Journal (2008-present).

Public Health Committee – American Association of Veterinary Medical Colleges (2007-present).

Website Improvement Committee – American College of Veterinary Preventive Medicine (2008-2009).

Chair, Communications Committee – American College of Veterinary Preventive Medicine (2006-2008).

Public Health Committee member – Iowa Veterinary Medical Assoc. (2008-present).

Pet Therapy Committee – National Assoc. of State Public Health Veterinarians (2007-present).

Editorial Review Board for Clinician's Brief, a peer-reviewed veterinary journal. Official publication of the North American Veterinary Conference (2007-present).

Developed a scenario on *Yersinia pestis* in cats and the public health ramifications for the Center for Food Security and Public Health for their on-line Emerging and Exotic Disease Course (2007).

Book reviewer for Doody's Reviews (2007). Reviewed *Epidemiologic Principles and Food Safety*. Tamar Lasky, ed. Oxford University Press, 2007.

Book reviewer on a textbook related to veterinary public health for Blackwell Publishing (2005).

Advisor to Kirkwood Community College for their development of the AgroTerror Responder Training program (2004-2005).

Point of contact and source of expert information for the FBI on agroterrorism (2001-2007).

Trainer for Mississippi State Animal Response Teams. Training (3 separate occasions) conducted on biological, chemical, and radiological agents (2003-2004).

Source of information on agroterrorism for the Regional Information Sharing Systems (RISS) Anti-Terrorism Information Exchange (ATIX). (This is run by the Institute for Intergovernmental Research. Information is used by law enforcement and criminal justice officials, the intelligence community, and officials/executives in government with a need to receive timely information about national security or terrorist threats) (2003).

Reviewer for the journal *Veterinary Parasitology: An international journal* (2002).

Author of considerable educational materials for the Center for Food Security and Public Health in the fields of agroterrorism and bioterrorism for their training and education programs (2002-2005).

Co-founder for the ISU, College of Veterinary Medicine, concurrent DVM/MPH degree in collaboration with Univ. of Iowa (2002).

Co-developer of training program on agroterrorism for Iowa law enforcement: *Agricultural Bioterrorism and the Role of Law Enforcement* (2001).

Invited contributor to the Bioterrorism Preparedness and Response course sponsored by FEMA and the Des Moines University-Osteopathic Medical Center. Developed a 4 hour training module on agroterrorism (2000).

Temporary advisor to the World Health Organization in Mongolia on the public health aspects of brucellosis and implementation of a national prevention and control program (1999).

Member, Animal Hazard Committee, University of Arizona (1997-1998).

Visiting Scientist, CDC, National Center for Infectious Disease, Division of Vector-Borne Infectious Diseases, Fort Collins, CO. Laboratory training on the techniques for *Y. pestis* (1996).

Teaching

Instructor In-Charge

MPH 0774 Infections of Humans and Animals - A 100% distance learning course designed and taught for Des Moines University, Public Health Program. This course is intended to educate students on diseases that are shared between humans and animals. Lectures focus on the intersection of human-animal health, infectious disease epidemiology, routes of infection, signs, control and prevention, emergence of new diseases, and the role of public health in managing these issues.

MPH C774 Public health policy and practice: veterinary issues in public health (3 cr., F) – A new course fall 2008 developed for Des Moines University, School of Public Health. This course provides an overview of veterinary medicine and its role in public health.

VMPM 388 Public Health (3 cr., Sp) – Covers emerging diseases, fundamental epidemiology, zoonoses, food safety, and other topics. Students are second year veterinary students.

VMPM 486 Public Health Rotation (1 cr, Sp, Su, F) – This fourth year rotation involves discussions, lectures, exercises and field trips related to veterinary and global public health.

VMPM 491 CDC Epidemiological Elective Program (6 cr., Sp, Su, F) – a preceptorship in epidemiology at the CDC.

Food Safety 173:170 (3 cr., Su) – University of Iowa course, College of Public Health (2008).

Guest Lecturer

VCS 459 Shelter medicine rotation for senior veterinary students

Zoonoses as Agents of Bio-agroterrorism and Accidental Disasters – Two-week course on bioterrorism and agroterrorism and the veterinarian. This course is designed as an elective course for DVM students in the MPH program at St. George's University, St. George, Grenada

VCS 311 Vets in Society, Fall, 2004-present

On-line

Why veterinarians need to understand HIV. Offered on-line through the Veterinary Information Network, January 2008.

Training

- Training participant for Iowa Veterinary Rapid Response Teams (part II) (2005).
- Training participant in Media Training, 2 hours. (2005).
- Training participant for Iowa Veterinary Rapid Response Teams (2005).
- Training participant in Agroville: Agriculture Emergency Response Course (2005).
- Training participant in CDC/ATSDR Emergency Response Team training under FEMA, Mt. Weather, VA (2003).
- Training participant in CDC/ATSDR Orientation for Emergency Response Teams (2002).

Grants/Contracts

- \$113,362 from Military Personnel Services Corp. for developing a course on Agriculture Security for Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA (2004).
- \$15,000, Food Safety Consortium (Iowa State University). Risk Assessment of West Nile Virus Infected Pigs to Food Handlers and Consumers (2001).
- \$2,000, Instructional and Development Grant, Iowa State University: *Epidemiological Investigation of Diseases of Public Health Significance Using an Interactive Multimedia Program* (1999).

Memberships

- Iowa Veterinary Medical Association
- National Association of State Public Health Veterinarians
- Iowa Biological Consultants Bureau (IBCB)
- American Association of Public Health Veterinarians
- American College of Veterinary Preventive Medicine
- American Veterinary Medical Association

Publications

Books

Editor of 2 volumes for ABC-CLIO, LLC. (Praeger Imprint) Vol. 1 - Caring for family pets: choosing and keeping our companion animals healthy. Vol. 2 – Animal disease and human health: saving lives now and in the future. In progress. Publication date: 2011

Book chapters

Davis RG. Agroterrorism: Need for awareness. In: Scanes CG and Miranowski JA, eds. Perspectives in world food and agriculture: 2004. Ames, IA: ISU Press. 2004;353-416.

Book introductions

Davis RG. In: Emerging and Exotic Diseases of Animals, 2nd ed. JA Roth and AR Spickler eds. Iowa State University College of Veterinary Medicine, 2004.

Davis RG. In: Emerging and Exotic Diseases of Animals. JA Roth and AR Spickler eds. Iowa State University College of Veterinary Medicine, 2003.

Peer-reviewed publications

Davis RG. HIV/AIDS Education: Still an Important Issue for Veterinarians. Public Health Reports May/June 2008;123(3):266-275

Davis RG. HIV/AIDS and the veterinary practitioner – making a difference. Compend Contin Educ Vet. May 2008;30(3):128-130.

Brigitte C. French, David W. Hird, Patrick S. Romano, Rick H. Hayes, Ard M. Nijhof, Frans Jongejan, Dominic J. Mellor, Randall S. Singer, Amanda E. Fine, John M. Gay, **Radford G. Davis**, and Patricia A. Conrad. Virtual International Experiences in Veterinary Medicine: An Evaluation of Students' Attitudes toward Computer-Based Learning. J Vet Med Educ 2007;34:502-509.

Davis RG. The ABCs of bioterrorism for veterinarians, focusing on Category A agents. J Am Vet Med 2004;224:1084-1095.

Davis RG. The ABCs of bioterrorism for veterinarians, focusing on Category B and C agents. J Am Vet Med Assoc 2004;224:1096-1104.

Roth J, Boghossian A, Brown C, Cowen P, **Davis RG**, Galyon J, Hird D, Kasper J, Little S, and Uhlenhopp E. Exotic and Emerging Diseases of Animals: an Internet Course for Veterinary Students. J Vet Med Educ 2002;29:210-211.

Proceedings

Davis RG. National Environmental Health Association 2004 Conference, Anchorage, AK. May 12, 2004. National bioterrorism awareness and zoonotic disease education program.

Davis RG. University of Pennsylvania School of Veterinary Medicine 104th Penn Annual Conference, March 12, 2004. Four proceedings: Agroterrorism: Need for awareness. Terrorism, Offensive BW Programs, and Agriculture. Nipah and Rift Valley fever. Radiological threats.

Davis RG. American Public Health Association 131st annual meeting, San Francisco, CA, Nov. 18, 2003. National bioterrorism awareness and zoonotic disease education program: resources and materials.

Davis RG. Iowa Veterinary Medical Association, Sept. 15, 2003. The role of the veterinary practitioner in public health.

Abstracts

Davis RG. Import and the risk to agriculture. Diseases in Nature conference June 1-3, 2005, Houston, TX.

Davis RG. Society for Tropical Veterinary Medicine, June 26, 2003, Iguassu Falls, Brazil. Bioterrorism Awareness Education: Zoonotic Disease Training for Veterinarians.

Platt K, **Davis RG.** A preliminary assessment of infection by West Nile virus (WNV) to abattoir personnel and other handlers of fresh pork products. 2003 Food Safety Education Conference, Littlerock, Arkansas.

Others

Davis RG. *HIV/AIDS and the veterinary practitioner – making a difference.* One Health Newsletter. Summer 2008: 1(3):9-11.

Author and editor for the monthly bulletin *eNews* for the American College of Veterinary Preventive Medicine, 2006-2008.

Davis RG. Zoonoses, public health concerns, liability issues, hygiene, and vaccination of exotic species. In: Petting Zoos – Zoonotic Diseases. A White Paper produced for Gerson Lehrman Group, New York, NY in collaboration with several other nationally recognized experts on this topic. Invited contributor, 2005.

Davis RG. The Threat of Animal and Environmental Extremists. Iowa Anti-terrorism Advisory Committees' Terrorism Intelligence Bulletin, Feb. 2005, Issue 18.

Davis RG. Emerging zoonoses and DVMs: Knowledge for everyday. DVM Best Practices magazine. March 2003; 4-7.

Davis RG. Bibliography on agroterrorism, published on The Infography (a compendium of research recommendations written by thousands of professors and other subject specialists.), found at <http://www.infography.com/content/275151664053.html> Invited.

Primary author of 11 full Power Point presentations with full speaking notes on 10 infectious diseases and 1 overview on agroterrorism used by the Center for Food Security and Public Health, College of Veterinary Medicine, Iowa State University, for national public health and veterinary training purposes.

Co-author of 14 full Power Point presentations with speaking notes on 14 infectious diseases used by the Center for Food Security and Public Health, College of Veterinary Medicine, Iowa State University, for national public health and veterinary training purposes.

Liaison

ISU-CVM liaison for student experience and education for the following agencies:

Centers for Disease Control and Prevention (CDC)

USDA-FSIS Veterinary Student Educational Employment Program

USDA-FSIS Veterinary Student Volunteer Program

Iowa Dept. Public Health

Presentations/Outreach/Training Conducted(local, national, international)

Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA, Mobile Education Team, Little Rock, AR. Subject matter expert on agroterrorism. April 19, 2008.

Canine and Pub Health clubs. *HIV/AIDS and the Veterinarian*, 1 hr, 50 attendees. Feb. 18, 2008.

Rounds. Conducted 1 hour Rounds session for the Veterinary Information Network and their international audience of veterinarians. *HIV/AIDS and the Veterinarian*. CE offered. Jan. 13, 2008.

Trainer, West Virginia State Animal Response Team Training, Charleston, WV. *Protecting animal and public health: emerging zoonoses and Zoonotic bioterrorism diseases*, 2 hrs., 50 attendees, Dec. 10, 2006.

Infusion Nurses Society Annual Meeting, 2006, Reno, NV. *Bioterrorism*, 1 hr., 500 attendees. Continuing education credits offered. May 6, 2006.

Collegiate United Methodist Church, Ames, IA. *Agroterrorism*, 1 hr., 30 attendees. Nov. 20, 2005.

Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA, Mobile Education Team for Urban Areas, Atlanta, GA, full day, 50 attendees. Subject matter expert on agroterrorism. Nov. 17, 2005.

Visions in Veterinary Medicine Conference, Ames, IA. *Paw and order*. Full day panel on zoonotic and liability issues for practitioners, 45 attendees. Continuing education credits offered. Panel member. Oct. 15, 2005.

Upper Midwest Center for Public Health Preparedness, College of Public Health, University of Iowa, Iowa City, IA, 2005 Grand Round Series. *Import and the risk to agriculture*, 1 hr., carried on ICN. Aug. 25, 2005.

Upper Midwest Center for Public Health Preparedness, College of Public Health, University of Iowa, Iowa City, IA Train the Trainer Program. *Preparedness issues: animal and human health*. Topics: Emerging zoonoses, BSE and vCJD, 1.5 hrs., carried on ICN. Aug. 24, 2005.

55th annual Diseases in Nature Conference, College Station, TX. *Import and the threat to agriculture*, 1 hr., 150 attendees. Continuing education credits offered. June 3, 2005.

Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA. Mobile Education Team, Olympia, Washington, 50 attendees. Subject matter expert on agroterrorism. May 9, 2005.

Ames Kiwanis Club, Ames, IA. *Terrorism and food safety*, 30 minutes, 50 attendees. Jan. 21, 2005.

Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA. Mobile Education Team, Cheyenne, WY, 45 attendees. Subject matter expert on agroterrorism. Oct 20, 2004.

Center for Homeland Defense and Security, Naval Postgraduate School, Monterey, CA. Mobile Education Team, Columbus, OH, 45 attendees. Subject matter expert on agroterrorism. Oct. 8, 2004

Agroterrorism: repercussions to our society – a 3 day national workshop. Sponsored by AgrowKnowledge at Kirkwood Community College, Cedar Rapids, IA. *Risk of agroterrorism*, 1 hr., 65 attendees. July 14, 2004.

National Environmental Health Association, 2004 conference, Anchorage, AK. *National bioterrorism awareness and zoonotic disease education Program*, 1 hr., 60 attendees. May 12, 2004

Lead facilitator and education materials developer for Veterinary Response to a Bioterrorism Attack. Batesville, MS, Training seminar on biological, chemical, and radiological training for the Mississippi State Animal Response Teams. Emphasis on zoonotic potential of agents. This was the third of three training sessions, 8 hrs., 45 attendees (veterinary and emergency response workers). Continuing education credits offered. May 21, 2004,

Iowa Region 1 CDC Emergency Preparedness Conference, Ames, IA. *Agroterrorism, bioterrorism: outcomes and impacts*, 1 hr., 50 attendees. April 27, 2004.

2004 Iowa Public Health Conference, Ames, IA. *Zoonotic agents on bioterrorism: Understanding the impact of human and animal health*, 1 hr, 60 attendees. Continuing education credits offered. March 31, 2004.

University of Pennsylvania School of Veterinary Medicine 104th Penn Annual Conference, Philadelphia, PA. Five separate topics: *Agroterrorism: Need for awareness. Terrorism, Offensive BW Programs, and Agriculture. Nipah and Rift Valley fever. National Animal ID Program. Radiological threats to humans and animals*, 4 hrs., 50 attendees. Continuing education credits offered. March 12, 2004.

Lead facilitator and education materials developer for Veterinary Response to a Bioterrorism Attack, Jackson, MS. Training seminar on biological, chemical, and radiological agents and response for the Mississippi State Animal Response Teams. Emphasis on zoonotic potential of agents. This was the second of three training sessions, 8 hrs., 25 attendees. (veterinary and emergency response workers). Continuing education credits offered. March 5, 2004.

Lead facilitator and education materials developer for Veterinary Response to a Bioterrorism Attack, Gulfport, MS. Training seminar on biological, chemical, and radiological agents and response for the Mississippi State Animal Response Teams. Emphasis on zoonotic potential of agents. This was first of three training sessions, 8 hrs., 12 attendees. (veterinary and emergency response workers). Continuing education credits offered. Dec. 5, 2003.

American Public Health Association annual meeting, San Francisco, CA. *National bioterrorism awareness and zoonotic disease education program: Resources and materials*. In conjunction with the University of Iowa, Iowa Center for Public Health Preparedness, 25 min, 40 attendees. Nov. 18, 2003.

United States Animal Health Association annual meeting, San Diego, CA. Agroterrorism Awareness Education. Presentation was part of a half day training program for veterinarians on agroterrorism and bioterrorism put on by the Center for Food Security and public health, 45 min, 53 attendees. Continuing education credits offered. Oct. 11, 2003.

Mary Greeley Medical Center Grand Rounds, Ames, IA. *Zoonotic agents of bioterrorism: Understanding the impact on human and animal health*, 1 hr., 60 attendees (physicians, nurses, physician assistants, EMTs, others). Sept. 24, 2003.

Iowa Food Security Conference, Des Moines, IA. *The risk of agroterrorism to Iowa*. Put on by Iowa Dept. of Agriculture and Land Stewardship, Iowa Dept. of Inspection and Appeals, Iowa Homeland Security and Emergency Management, 1 hr., 50 attendees. Sept. 15, 2003.

- Iowa Veterinary Medical Association, Ames, IA. *The role of the veterinary practitioner in public health*, 30 min, 60 attendees. Continuing education credits offered. Sept. 12 2003.
- Iowa Center for Public Health Preparedness, University of Iowa, Iowa City, IA Train the Trainer program. *Zoonoses and Bioterrorism*, 3 hrs., carried on ICN. Aug. 25, 2003.
- American Veterinary Medical Association annual conference, Denver, CO. *CFSPH Bioterrorism awareness education: zoonotic disease training efforts*, 45 min, 60 attendees. Continuing education credits offered. July 22, 2003.
- Society for Tropical Veterinary Medicine, 7th annual meeting, Iguassu Falls, Brazil. *CFSPH Bioterrorism awareness education: zoonotic disease training efforts, emerging/exotic disease education efforts, and other Center activities*, 1 hr., 50 attendees. Continuing education credits offered. June 26, 2003.
- Council of State and Territorial Epidemiologist/National Association of Public Health Veterinarians annual meeting, Hartford, CT. Two presentations to on *National Bioterrorism Awareness Education program by CFSPH*, 30 min. each, 100 attendees. Continuing education credits offered. June 21-22, 2003.
- National Animal Health Laboratory Network, National Veterinary Services Laboratory, Ames, IA. *Efforts of the CFSPH in bioterrorism and MPH training*, 1 hr. June 13, 2003.
- Decatur County Public Health, Decatur, IA. *Agroterrorism*, 2 hrs., 20 attendees. June 12, 2003.
- Iowa Emergency Management, Des Moines, IA. *Center for Food Security and Public Health activities*, 30 min., 25 attendees. Carried on ICN. April 30, 2003.
- Centers for Disease Control and Prevention, Office of Terrorism Preparedness and Emergency Response, Atlanta, GA . *Bioterrorism Awareness Education: zoonotic disease training*, 25 min., 12 attendees. April 23, 2003.
- Iowa Livestock Health Advisory Council, Ames, IA. *Center for Food Security and Public Health activities and overview*, 30 min. 9 attendees. April 9, 2003.
- Dept. Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA. VMPM seminar, *Center for Food Security and Public Health activities and overview*, 25 attendees. April 1, 2003.
- Outreach Institute for Veterinary Medicine and Rural Community Development, College of Veterinary Medicine, Iowa State University, *Bioterrorism Awareness: Protection of Human and Animal Health*, 1.5 hrs, carried on ICN. Audience: veterinarians, emergency management, local law enforcement, and extension. Continuing education credits offered. March 13. 2003.
- Mitchell elementary school, Ames, IA. Dog bite prevention and awareness program, 30 min., 20 attendees. Assisted by senior veterinary students. March 6, 2003.
- Center for Food Security and Public Health, College of Veterinary Medicine, Iowa State University, *Zoonotic Disease Training for Veterinarians*, Train-the-Trainer program, Orlando, FL. Co-Coordinator, contributor, education materials developer and trainer for Bioterrorism Awareness Education Symposium, 8 hrs., 125 attendees (veterinarians from 46 states and Puerto Rico). Continuing education credits offered. U.S. Surgeon General, Dr. Richard Carmona, Keynote speaker (invited by me). Jan. 17, 2003.
- Iowa Center for Public Health Preparedness, College of Public Health, University of Iowa, Iowa City, IA, 2002 Grand Rounds Series. *Agroterrorism*, 1 hr., carried on ICN. Dec 17, 2002.

Center for Food Security and Public Health, College of Veterinary Medicine, Iowa State University, *Zoonotic Disease Training for Veterinarians*, Train-the-Trainer program, Ames, IA. Co-Coordinator, contributor, education materials developer and trainer for Bioterrorism Awareness Education Symposium, 8 hrs., 26 attendees (veterinarians). Continuing education credits offered. Dec, 13, 2002.

CASE Media Fellowship, College of Veterinary Medicine/Greenlee School of Journalism, Iowa State University, Ames, IA. *Agricultural Bioterrorism: Addressing America's concerns: animal disease outbreaks and their impact on society*. A two day scientific seminar for journalists, 1 hr., 13 attendees. April 2002.

Greater Des Moines Veterinary Association, Des Moines, IA. *Bioterrorism, Zoonoses, and the Private Practitioner*, 3 hrs., 80 attendees (veterinarians). Continuing education credits offered. March 2002.

Dept. of Animal Science, College of Agriculture, Iowa State University, Graduate Seminar, Ames, IA. *Agricultural Bioterrorism*, 1 hr., 40 attendees. Feb. 22, 2002.

College of Veterinary Medicine, Iowa State University, Ames, IA. *Agricultural Bioterrorism: Addressing America's Concerns*, 1 hr., carried on ICN. Attendees were veterinarians. Continuing education credits offered. Feb. 2002.

Iowa Law Enforcement Academy, Des Moines, Iowa. *Agricultural Bioterrorism and the Role of Law Enforcement*, 2 hrs. (1 of 3 speakers), carried on ICN. Attendees were law enforcement from various agencies of Iowa. Feb 2002.

Crop Insurance Research Bureau, National Annual CIRB meeting, Palm Springs, CA. *Agricultural Bioterrorism and the Crop industry*, 1 hr., 50 attendees. Jan. 2002.

Iowa Farm Safety Council Annual Meeting, Des Moines, IA. *Agricultural bioterrorism: addressing America's concerns*, 1 hr., 35 attendees. Aug. 2001.

The 2001 Midwest Regional Pre-Veterinary Symposium, College of Veterinary Medicine, Iowa State University, Ames, IA. *Healthy people: the role of the veterinarian in public health*, 1 hr., 30 attendees. June, 2001.

Dept. Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames, IA. VMPM seminar, *Agricultural bioterrorism*, 1hr., 20 attendees, 2000.

Workshop on the Public Health Importance of Brucellosis, Ulaanbaatar, Mongolia. Panel member and advisor for 3 day workshop on brucellosis. *Brucellosis surveillance*, 25 min, 110 attendees. Sponsored by the government of Mongolia and the World Health Organization, 1999.

Lutheran Memorial Hospital, Des Moines, IA. *Public Health Aspects of Dog Bites*, 30 min., 25 attendees (physicians/residents), 1999

Iowa State University, College of Veterinary Medicine, Ames, IA. *Public health importance of Cryptosporidium*, 1 hr., carried on ICN. Continuing education credits offered, 1998.

University of Arizona, School of Renewable and Natural Resources, Tucson, AZ. *Zoonotic Hazards of Field Work.*, 1 hr., 60 attendees (faculty and students), 1997.