

CURRICULUM VITAE

Thomas Wallace Scott
Distinguished Professor
Department of Entomology and Nematology
University of California
Davis, CA 95616
(530) 304-5132
email: twscott@ucdavis.edu

Research Interests: The epidemiology, ecology, and prevention of vector-borne disease

My research focuses on epidemiology of mosquito-borne disease, mosquito ecology, evolution of mosquito-pathogen interactions, and evaluation of novel products and strategies for disease control. I aim to generate the detailed, difficult to obtain data that are necessary for assessing current recommendations for disease prevention, rigorously testing fundamental assumptions in public health policy, and developing innovative, cost, and operationally effective strategic concepts for prevention of mosquito-borne disease.

Education:

University	Major	Dates Attended	Degree
Yale University	Epidemiology	1981-1983	Post-doc.
Pennsylvania State Univ.	Ecology	1977-1981	Ph.D.
Bowling Green State Univ.	Biology	1974-1977	M.S.
Bowling Green State Univ.	Business	1969-1973	B.S.

Positions held:

2014-present Distinguished Professor, Department of Entomology and Nematology, University of California at Davis
2006 - 2008 Vice Chair, Department of Entomology, University of California at Davis
2001 - 2003 Director, UC Davis Arbovirus Research Unit, University of California at Davis
1996 - 1999 Acting Director of the UC Davis Center for Vector-Borne Disease Research, University of California at Davis
1996 – 2014 Professor of Entomology & Director of the Vector-Borne Disease Laboratory, Department of Entomology and Nematology, University of California at Davis
1993-1996 Professor of Medical and Veterinary Entomology, Department of Entomology, University of Maryland
1988-1993 Associate Professor of Medical and Veterinary Entomology, Department of Entomology, University of Maryland

1983-1988 Assistant Professor of Medical and Veterinary Entomology, Department of Entomology, University of Maryland
1981-1983 NIH Post-doctoral Fellow in Epidemiology, Yale Arbovirus Research Unit, Department of Epidemiology and Public Health, Yale University School of Medicine
1979-1981 Research Assistant, Department of Veterinary Science, The Pennsylvania State University
1977-1979 Research Assistant, Institute for Research on Land and Water Resources, The Pennsylvania State University
1976 Biologist (Summer), Center for Disease Control, Fort Collins, CO
1977 Biologist (Summer), Centers for Disease Control, Fort Collins, CO
1975-1977 Graduate Teaching Assistant, Department of Biological Sciences, Bowling Green State University

Awards and Honors:

Beta Beta Beta (Biology)

Phi Kappa Phi (University)

Sigma Xi (Science)

Student Travel Award, Wildlife Disease Association, 1981

Keynote Address, Chesapeake Environmental Conference, Frederick, MD, 1984

Guest Researcher, Centers for Disease Control, Fort Collins, CO, 1980

Junior Faculty Award of Excellence, University of Maryland, Colleges of Agriculture and Life Sciences, 1988

National Research Council, Senior Research Associate, Bangkok, Thailand, 1990

Griswald Lecture, Department of Entomology, Cornell University, Ithaca, NY, 2001

Plenary speaker, Society for Vector Ecology, Anchorage, AK, 2006

Institute of Medicine Forum on Vector-borne Diseases, 2007

Who's Who in America, 2008

Plenary speaker, 10th Arbovirus Research in Australia Symposium, Coffs Harbour, New South Wales, Australia, 2008

Distinguished seminar in Vector Biology, Rutgers University, 2008

Fellow, American Association for the Advancement of Science, 2008

Fellow, Entomological Society of America, 2010

Plenary Speaker, International Congress of Entomology, 2012

Invited participant, UC Davis School of Medicine, Post-Baccalaureate Program, Office of Student and Resident Diversity, Annual Celebration, 2014, 2015

Brandon Brei Memorial Lecture, Department of Epidemiology of Microbial Diseases, Yale School of Public Health, 2014

Fellow, American Society of Tropical Medicine and Hygiene, 2014

Charles W. Woodworth Award, Entomological Society of America, 2015

CDC Public Health Grand Rounds, 2015

Voices in the Vanguard Lecture, University of Georgia, 2016

Grants awarded:

Quantifying heterogeneities in dengue virus transmission dynamics. (NIH: \$7,319,879; direct

costs = \$5,423,441) 05/01/14-03/30/19 (P01 AI098670), TWS Program Director.

Spatial repellent products for control of vector-borne diseases (Bill and Melinda Gates Foundation: \$20,000,000) 09/01/2013-08/31/2018 (OPP1081737); Nicole Achee Principal Investigator; TWS Project Leader of Iquitos, Peru field trial (\$2,217,793).

Methods for Measuring Natural Dengue Transmission from Humans to Mosquitoes (NIH: \$100,000) 05/01/2013 – 04/30/2015(R03AI107446-01), AC Morrison & L Lambrechts PIs, TWS Co-Investigator.

Improving robustness of a tactical model of *Aedes*/dengue dynamics (NIH: \$1,348,587; direct costs = \$1,000,000) 06/01/11-05/31/15 (R01 AI091980), Fred Gould Principal Investigator; TWS Co-Investigator.

Dengue prevention consortium: A framework for improved dengue surveillance and prevention. (Bill and Melinda Gates Foundation: \$2,999,944) 11/16/09-4/31/15 (OPP52250); TWS Principal Investigator.

Quantifying the influence of environmental temperature on transmission of vector-borne diseases (National Science Foundation, Ecology of Infectious Disease: \$1,884,991) 07/01/09-06/30/13. Matthew Thomas Principal Investigator; TWS Project Sub-Award Principal Investigator.

Attractant-baited lethal ovitrap for *Aedes aegypti* control (Bill and Melinda Gates Foundation: \$4,559,327) 11/01/08-11/01/14; Dawn Wesson Principal Investigator; TWS Co-Investigator.

Can insecticide-treated currants prevent transmission of dengue? (Wellcome Trust: £454,571) 11/01/08-11/01/11; Philip McCall Principal Applicant; TWS Co-Applicant.

A novel ITM push-pull strategy to reduce host-seeking *Aedes aegypti* inside homes (Bill and Melinda Gates Foundation: \$3,529,992) 10/02/07-10/02/12; Nicole Achee Principal Investigator; TWS Program Leader, Peru.

Dengue vaccine and viral evolution in rural Thailand (NIH: \$3,745,392, direct costs = \$3,460,368) 10/01/08-09/30/13; (R01 GM083224); TP Endy Principal Investigator; TWS Co-Investigator Aim 3.

Aedes aegypti control (Bill and Melinda Gates Foundation: \$50,000) 02/01/06-01/31/07; TWS and AC Morrison Principal Investigators.

Measuring entomological risk for dengue (NIH: \$2,249,318, direct costs = \$1,911,460) 04/01/06-03/31/13; (R01 AI069341), TWS Principal Investigator; AC Morrison, U Kitron, J Elder, V Paz Soldan Co-Investigators.

Innovative vector control consortium (Bill and Melinda Gates Foundation: \$50,744,497) 10/15/05-10/15/11; J Hemingway Principal Investigator, TWS Co-Investigator and Coordinator, Interventions Consortium.

Genetic strategies for control of dengue virus transmission (Grand Challenges in Global Health, NIH and Bill and Melinda Gates Foundation: \$19,679,891) 09/01/05-08/31/13; AA James Principal Investigator, TWS Collaborating Researcher and Field Site Activities Coordinator.

Rapid assessment of transmission potential of West Nile virus by *Culex* mosquitoes (UC Mosquito Research Program: \$70,790) 07/01/04-06/30/06; TWS Principal Investigator.

Population genetics of transgenes in mosquito vectors (NIH: \$1,305,075, direct costs = \$975,000) 09/01/04-08/31/09, (R01 AI054954), FL Gould Principal Investigator; TWS, D O'Brochta, JR Rasgon Co-Investigators.

Multicountry study on the pupal survey technique for the dengue vector *Aedes aegypti* (World Health Organization: \$50,000). 12/01/05-11/30/07, A.C. Morrison Principal Investigator, TWS Co-Investigator.

Entomological determinants of dengue (Project 3 in NIH-PO1: \$1,353,700 direct costs = \$1,324,200). 01/15/02-12/31/07, (PO1 AI034533), TWS Project 3 Principal Investigator; A.C. Morrison, A. Getis, and J.W. Jones Co-Investigators; PO1 title: Flavivirus infections: Pathogenesis and prevention, F.A. Ennis PO1 Principal Investigator (\$7,258,575; direct costs = \$5,809,495).

Ecology of African highland malaria (NIH: \$3,305,591; direct costs = \$2,485,407). 7/01/01-6/30/06. (AI-50243). G Yan Principal Investigator; TWS, U Kitron Co-Investigators.

Vector competence of California mosquitoes for West Nile virus (University of California Mosquito Research Program: \$72,525) 2001-2003. TWS Principal Investigator, W.K. Reisen Co-Investigator.

Identification of host DNA in mosquito blood meals by polymerase chain reaction (University of California Mosquito Research Program: \$38,117) 2000-2001. TWS Principal Investigator, L.D. Kramer Co-Investigator.

Biology of *Wolbachia* infection in California *Culex* mosquitoes (University of California Mosquito Research Program: \$89,410) 1999-2002. TWS Principal Investigator, M. Turelli Co-Investigator.

Large scale study of mortality dynamics for *Culex tarsalis* (University of California Mosquito Research Program: \$68,457) 1997-2000. TWS Principal Investigator, J.R. Carey Co-Investigator.

Multiple blood feeding by mosquitoes (NIH-RO1: \$1,591,371; direct costs = \$1,298,238). 09/30/99-06/30/04; (RO1 AI022119). TWS Principal Investigator; L.C. Harrington, J.D. Edman Co-Investigators.

Entomological assumptions of dengue control (NIH: \$1,502,430; direct costs = \$1,051,380). 08/01/98-06/30/03; (AI-42332). TWS Principal Investigator; A.C. Morrison, A. Getis Co-Investigators.

Model surveillance program for mosquito-borne diseases (Various Abatement Districts in California: \$800,000), 1996-2001. B.F. Eldridge Principal Investigator; TWS, W.K. Reisen Co-Investigators.

An assay for assessing relative growth among viruses in the family Togaviridae and its application for evaluating mechanisms of virus (Maryland Agricultural Experiment Station: \$15,000), 1995-1996. TWS Principal Investigator.

Multiple blood feeding by mosquitoes (NIH: \$1,184,559; direct costs = \$944,663). 09/31/94-09/30/98; (AI-22119). TWS Principal Investigator, J.D. Edman Co-Investigator.

Mosquitoes and the evolution of virulence among alphaviruses (Maryland Agricultural Experiment Station: \$22,000), 1994-1995. TWS Principal Investigator.

Multiple blood feeding by mosquitoes (NIH: \$821,108; direct costs = \$514,363). 10/1/90-9/30/93; (AI-22119). TWS Principal Investigator, J.D. Edman Co-Investigator.

Intraspecific variation of three different geographical populations of *An. pseudopunctipennis* in the American continent (WHO: \$60,568), 1/1/90-12/31/91; (M24/181/39, No. 890530). TWS Principal Investigator.

Entomological Studies of Lyme Disease in Maryland (Maryland Agricultural Experiment Station:

\$100,000), 1/1/90-12/31/92. TWS Principal Investigator.

Togavirus-Vector Interactions (NIH: \$850,303; direct costs = \$659,600), 8/1/88-7/31/93; (AI-26787). TWS Principal Investigator, SC Weaver Co-Investigator.

Molecular ecology of eastern equine encephalomyelitis virus (NIH: \$565,991; direct costs = \$349,377), 7/1/87-6/30/92; (AI-24989). P.M. Repik Principal Investigator at the Medical College of Pennsylvania, TWS Co-Investigator.

Rapid transmission of eastern equine encephalomyelitis virus by *Culiseta melanura*. (NIH: \$311,403; direct costs = \$221,639) 9/1/86-8/31/89. (AI-22119). TWS Principal Investigator.

Effects of host arboviral infection on mosquito feeding (NIH: \$192,661; direct costs = \$137,125). 9/31/84-3/31/88. (AI-20675). TWS Principal Investigator.

Surveillance and rapid diagnosis of eastern equine encephalitis in Maryland. (Animal Health Funds, Maryland Agricultural Experiment Station: \$28,000) 2/15/86-9/1/86. TWS Principal Investigator.

Potential arthropod vectors of Potomac horse fever. (Maryland Agricultural Experiment Station: \$4,000) 5/1/85-4/31/86. TWS Principal Investigator.

Detection of eastern equine encephalomyelitis viral antigen in domestic animals and mosquitoes by enzyme immunoassay. (Avrum R. Gudelsky Research Fund, University of Maryland: \$10,185) 1/1/85-12/31/85. TWS Principal Investigator.

Rapid transmission of eastern equine encephalitis virus by *Culiseta melanura* during a single gonotrophic cycle (Avrum R. Gudelsky Research Fund, University of Maryland: \$22,362) 1/1/84-12/31/84. TWS Principal Investigator.

Host preference of the tick *Dermacentor andersoni* (BRSG, Yale University: \$8,000) 2/1/83-1/31/84. TWS Principal Investigator.

Transovarial transmission of eastern equine encephalitis virus: a possible overwintering mechanism (BRSG, Yale University: \$8,600) 1/1/82-12/31/82. TWS Principal Investigator.

Publications:

- 1) Scott, T.W. 1979. Growth and age determination of nestling Brown-headed Cowbirds. *Wilson Bull.* 91:464-466.
- 2) McLean, R.G. and T.W. Scott. 1979. Avian hosts of St. Louis encephalitis virus. *Proc. Eighth Bird Control Seminar.* pp. 143-155.
- 3) Scott, T.W. and J.M. Grumstrup-Scott. 1983. Why do Brown-headed Cowbirds perform the head-down display? *Auk.* 100:139-148.
- 4) Scott, T.W., R.G. McLean, D.B. Francy, C.J. Mitchell and C.S. Card. 1983. Experimental infections of birds with Turlock virus. *J. Wildl. Dis.* 19:82-85.
- 5) Scott, T.W., R.G. McLean, D.B. Francy and C.S. Card. 1983. A simulation model for the vector-host transmission system of a mosquito-borne avian virus, Turlock (Bunyaviridae). *J. Med. Entomol.* 20:625-640.
- 6) Scott, T.W., D.B. Francy, C.J. Mitchell, R.G. McLean and C.S. Card. 1983. Turlock virus infection and transmission by *Culex* mosquitoes (Diptera: Culicidae). *J. Med. Entomol.* 20: 682-684.
- 7) Scott, T.W., S.W. Hildreth, and B.J. Beaty. 1984. Development and distribution of eastern equine encephalitis virus in its enzootic mosquito vector, *Culiseta melanura*. *Am. J. Trop.*

- Med. Hyg.* 33:300-310.
- 8) Scott, T.W. and T.G. Burrage. 1984. Rapid infection of salivary glands in *Culiseta melanura* with eastern equine encephalitis virus: an electron microscopy study. *Am. J. Trop. Med. Hyg.* 33:961-964.
 - 9) Scott, T.W., G.S. Bowen and T.P. Monath. 1984. Effects of Fort Morgan virus, an alphavirus transmitted by swallow bed bugs, on the reproductive success of symbiotic cliff swallows and house sparrows in Morgan County, Colorado. *Am. J. Trop. Med. Hyg.* 33:981-991.
 - 10) Scott, T.W., R.W. Miller and F. Knapp. 1986. Field evaluation of diflubenzuron boluses with and without flucythrinate ear tags for control of horn flies, *Haematobia irritans*, and face flies, *Musca autumnalis*, on pastured cattle. *J. Agr. Entomol.* 3:105-113.
 - 11) Scott, T.W. and S.J. Brown. 1986. Differential attachment and bloodfeeding success by the tick *Dermacentor andersoni*. *Acrologia.* 27:241-245.
 - 12) Scott, T.W. and J.G. Olson. 1986. Detection of eastern equine encephalomyelitis viral antigen in avian sera by enzyme immunoassay: a laboratory study. *Am. J. Trop. Med. Hyg.* 35:611-618.
 - 13) Scott, T.W., J.G. Olson, L.H. Lorenz, T.H. Lewis, J. Carpenter, L. Lembeck, S. Joseph and B.B. Pagac. 1987. A prospective field evaluation of an enzyme immunoassay: Detection of eastern equine encephalomyelitis virus antigen in pools of *Culiseta melanura*. *J. Am. Mosq. Control Assoc.* 3:412-417.
 - 14) Edman, J.D. and T.W. Scott. 1987. Host defensive behavior and the feeding success of mosquitoes. *Insect Science and its Application.* 8:617-622.
 - 15) Scott, T.W., J.G. Olson, B.P. All III and E.P.J. Gibbs. 1988. Detection of eastern equine encephalomyelitis virus antigen in equine brain tissue by enzyme immunoassay. *Am. J. Vet. Res.* 49:1716-1718.
 - 16) Oprandy, J.J., J.G. Olson and T.W. Scott. 1988. A rapid dot immunoassay for the detection of antibodies to eastern equine encephalomyelitis virus and St. Louis encephalitis virus in sentinel chickens. *Am. J. Trop. Med. Hyg.* 38:181-186.
 - 17) Weaver, S.C., T.W. Scott, L.H. Lorenz, K. Lerdthusnee and W. Romoser. 1988. Togavirus-associated pathology in the midgut of a natural mosquito vector. *Virology.* 62:2083-2090.
 - 18) Scott, T.W. 1988. Vertebrate host ecology. In: *Epidemiology of Arthropod-borne Viral Diseases*, T.P. Monath, ed. Boca Raton, Fla.: CRC Press. pp. 257-280.
 - 19) Scott, T.W. and J. Grumstrup-Scott. 1988. *The role of Vector-Host Interactions in Disease Transmission: Proceedings of a Symposium.* Misc. Pub. ESA.
 - 20) Scott, T.W., J.D. Edman, L.H. Lorenz and J.H. Hubbard. 1988. Effects of disease on vertebrates' ability to repel host-seeking mosquitoes. In: *The Role of Vector-Host Interactions in Disease Transmission: Proceedings of a Symposium*, T.W. Scott and J. Grumstrup-Scott, eds. Misc. Pub. ESA. pp. 9-17.
 - 21) Hubbard, J.L., T.W. Scott, L.H. Lorenz, D.M. Watts and L.A. Patrican. 1989. Effect of triturated *Culiseta melanura* (Diptera: Culicidae) on recovery of eastern equine encephalomyelitis virus. *J. Med. Entomol.* 26:380-383.
 - 22) Romoser, W.S., J.D. Edman, L.H. Lorenz and T.W. Scott. 1989. Histological parameters useful in the identification of multiple blood meals in mosquitoes. *Am. J. Trop. Med. Hyg.* 41:737-742.

- 23) Scott T.W., and S.C. Weaver. 1989. Eastern equine encephalomyelitis virus: Epidemiology and evolution of mosquito transmission. *Adv. Virus Res.* 37:277-328.
- 24) Weaver, S.C., T.W. Scott and L.H. Lorenz. 1990. Patterns of infection of *Culiseta melanura* (Diptera: Culicidae) by eastern equine encephalomyelitis virus. *J. Med. Entomol.* 27:878-891.
- 25) Scott, T.W., L.H. Lorenz and J.E. Edman. 1990. The effect of House Sparrow age and arbovirus infection on attraction of mosquitoes. *J. Med. Entomol.* 27:856-863.
- 26) Weaver, S.C. and T.W. Scott. 1990. Peritrophic membrane formation and cellular turnover in the midgut of *Culiseta melanura* (Diptera: Culicidae). *J. Med. Entomol.* 27:864-873.
- 27) Scott, T.W., L.H. Lorenz and S.C. Weaver. 1990. Susceptibility of *Aedes albopictus* to infection with eastern equine encephalomyelitis virus. *J. Am. Mosq. Control. Assoc.* 6:274-278.
- 28) Lorenz, L.H., T.W. Scott, R.A. Anderson, J.D. Edman, W.J. Crans and S.D. Costa. 1990. The relationship of body size and parity status of field collected *Culiseta melanura* (Diptera: Culicidae). *J. Am. Mosq. Control Assoc.* 6:433-440.
- 29) Anderson, R.A., J.D. Edman, and T.W. Scott. 1990. Rubidium and cesium as host blood-markers to study multiple blood feeding by mosquitoes (Diptera: Culicidae). *J. Med. Entomol.* 27:999-1001.
- 30) Weaver, S.C. and T.W. Scott. 1990. Ultrastructural changes in the abdominal midgut of the mosquito *Culiseta melanura* during the gonotrophic cycle. *Tissue and Cell.* 22:895-909.
- 31) Weaver, S.C., T.W. Scott, L.H. Lorenz and P.M. Repik. 1991. Detection of eastern equine encephalomyelitis virus deposition in *Culiseta melanura* following ingestion of radiolabeled virus in blood meals. *Am. J. Trop. Med. Hyg.* 44:250-259.
- 32) Weaver, S.C., T.W. Scott and R. Rico-Hesse. 1991. Molecular evolution of eastern equine encephalomyelitis virus in North America. *J. Virology.* 182:774-784.
- 33) Olson, J.G., T.W. Scott, L.H. Lorenz, and J.L. Hubbard. 1991. Enzyme immunoassay for detection of eastern equine encephalomyelitis viral antibodies in sentinel chickens. *J. Clinical Micro.* 29:1457-1461.
- 34) Scott, T.W. and J.D. Edman. 1991. Effects of avian host age and arbovirus infection on mosquito attraction and blood-feeding success. In: *Bird-Parasite Interactions: Ecology, Behavior, and Evolution*, J.E. Loye and M. Zuk (eds.), Oxford University Press, New York, pp. 179-204.
- 35) Amerasinghe, F.P., N. Breisch, A. Azad, W.F. Gimpel, M. Greco, K. Neidhart, B. Pagac, J. Piesman, J. Strandt, T.W. Scott and K. Sweeney. 1992. Distribution, density, and Lyme disease spirochete infection in *Ixodes damini* (Acari: Ixodidae) on white-tailed deer in Maryland. *J. Med. Entomol.* 29:54-61.
- 36) Edman, J.D., D. Strickman, P. Kittayapong, and T.W. Scott. 1992. Female *Aedes aegypti* (Diptera: Culicidae) in Thailand rarely feed on sugar. *J. Med. Entomol.* 29:1035-1038.
- 37) Weaver, S.C., L.H. Lorenz, and T.W. Scott. 1992. Pathologic changes in the midgut of *Culex tarsalis* following infection with western equine encephalomyelitis virus. *Am. J. Trop. Med. Hyg.* 47:691-701.
- 38) Carpenter, J.W., D.M. Watts, C.L. Crabbs, G.C. Clark, T.W. Scott, D. Dougherty, B.B. Pagac, J.M. Dorthy, J.G. Olson, and F.J. Dein. 1992. Prevention of eastern equine encephalitis virus in captive cranes. *Third Annual North American Crane Workshop. Proceedings: 1988 North American Crane Workshop.* Florida Fish & Fresh Water Fish

- Commission, Technical Report #12. pp 211-217.
- 39) Van Handel, E., T.W. Scott, J.F. Day, and P. Reiter. 1992. Sugar feeding habits of *Aedes aegypti* females from San Juan, Puerto Rico. *J. Amer. Mosq. Control Assoc.* 8:311.
 - 40) Amerasinghe, F.P., N.L. Breisch, K. Neidhardt, B. Pagac, and T.W. Scott. 1992. Distribution of the winter tick, *Dermacentor albipictus* (Acari: Ixodidae), in Maryland. *Bull. Soc. Vector Ecol.* 17:109-113.
 - 41) Weaver, S.C., R. Rico-Hesse, and T.W. Scott. 1992. Genetic diversity and slow rates of evolution in New World alphaviruses. *Current Topics in Microbiol. and Immunol.*, Springer-Verlag. 176:99-117.
 - 42) Scott, T.W., G.G. Clark, L.H. Lorenz, P.H. Amerasinghe, P. Reiter and J.D. Edman. 1993. Detection of multiple blood-feeding by *Aedes aegypti* during a single gonotrophic cycle using a histological technique. *J. Med. Entomol.* 30:94-99.
 - 43) Scott, T.W., E. Chow, D. Strickman, P. Kittayapong, R.A. Wirtz, and J.D. Edman. 1993. Blood feeding patterns of *Aedes aegypti* collected in a rural Thai village. *J. Med. Entomol.* 30:922-927.
 - 44) Chow, E., R.A. Wirtz, and T.W. Scott. 1993. Identification of bloodmeals in *Aedes aegypti* by antibody sandwich enzyme-linked immunosorbent assay. *J. Amer. Mosq. Control Assoc.* 9:196-205.
 - 45) Weaver, S.C., L.A. Bellew, L. Gousset, P.M. Repik, and T.W. Scott. 1993. Diversity within natural populations of eastern equine encephalomyelitis virus. *Virology.* 195:700-709.
 - 46) Weaver, S.C., L.H. Lorenz, and T.W. Scott. 1993. Distribution of western equine encephalomyelitis virus in the alimentary tract of *Culex tarsalis* (Diptera: Culicidae) following natural and artificial blood meals. *J. Med. Entomol.* 30:391-397.
 - 47) Weaver, S.C., A. Hagenbaugh, L.A. Bellew, S.V. Netesov, V.E. Volchkov, G.J. Chang, D.K. Clark, L. Gousset, T.W. Scott, D.W. Trent, and J.J. Holland. 1993. A comparison of the nucleotide sequences of eastern and western equine encephalomyelitis viruses with those of other alphaviruses and related RNA viruses. *Virology.* 197:375-390.
 - 48) Amerasinghe, F.P., N.L. Breisch, K. Neidhardt, and T.W. Scott. 1993. Increasing density and *Borrelia burgdorferi* infection of deer-infesting *Ixodes damini* (Acari: Ixodidae) in Maryland. *J. Med. Entomol.* 30:858-864.
 - 49) Amerasinghe, F.P. and T.W. Scott. 1993. *Borrelia burgdorferi* infection in *Ixodes scapularis* (Acari: Ixodidae) in Kent County, Maryland. *Bull. Soc. Vecto. Ecol.* 18:99-104.
 - 50) Weaver, S.C., A. Hagenbaugh, L.A. Bellew, L. Gousset, V. Mallampalli, J.J. Holland, and T.W. Scott. 1994. Evolution of alphaviruses in the eastern equine encephalomyelitis complex. *J. Virol.* 68:158-169.
 - 51) Day, J.F., J.D. Edman, and T.W. Scott. 1994. Fitness of *Aedes aegypti* (Diptera: Culicidae) maintained on blood, with field observations from Thailand. *J. Med. Entomol.* 31:611-617.
 - 52) Van Handel, E., J.D. Edman, J.F. Day, T.W. Scott, G.G. Clark, P. Reiter, and H.C. Lynn. 1994. Plant sugar, glycogen, and lipid assay of *Aedes aegypti* collected in urban Puerto Rico and rural Florida. *J. Amer. Mosq. Control. Assoc.* 10:149-153.
 - 53) Glass, G.E., F.P. Amerasinghe, J.M. Morgan, and T.W. Scott. 1994. Predicting *Ixodes damini* abundance on white-tail deer using geographic information system. *J. Amer. Soc. Trop. Med. Hyg.* 51:538-544.
 - 54) Scott, T.W., S.C. Weaver, and V.L. Mallampalli. 1994. Evolution of mosquito-borne viruses. in: *Evolutionary Biology of Viruses*, S.S. Morse, ed., Raven Press. pp. 293-324.

- 55) Putnam, J.L. and T.W. Scott. 1995. The effect of multiple host contacts on the infectivity of dengue-2 virus infected *Aedes aegypti*. *J. Parasit.* 81:170-174.
- 56) Putnam, J.L. and T.W. Scott. 1995. Blood feeding behavior of dengue-2 virus infected *Aedes aegypti*. *Am. J. Trop. Med. Hyg.* 52:225-227.
- 57) Xue, R., J.D. Edman, and T.W. Scott. 1995. Effects of age and body size on blood meal size and multiple blood feeding in *Aedes aegypti* (Diptera: Culicidae). *J. Med. Entomol.* 32:471-474.
- 58) Putnam, J.L. and T.W. Scott. 1995. Evaluation of enemas for exposing *Aedes aegypti* to suspensions of dengue-2 virus. *J. Amer. Mosq. Control Assoc.* 11:369-371.
- 59) Putnam, J.L., G.G. Clark, and T.W. Scott. 1995. Failure of immune sera to neutralize dengue-2 virus following intrathoracic inoculation into *Aedes aegypti*. *J. Amer. Mosq. Control Assoc.* 11:372-374.
- 60) Day, J.F., L.M. Stark, J. Zhang, A.M. Ramsey, and T.W. Scott. 1996. Antibodies to arthropod-borne encephalitis viruses in small mammals from southern Florida: 1987 through 1993. *J. Wildlife Dis.* 33:431-436.
- 61) Lorenz, L.L. and T.W. Scott. 1996. Detection of multiple blood-feeding by *Culiseta melanura* using a histological technique. *J. Amer. Mosq. Control Assoc.* 12:135-136.
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- 236) LaCon, G., A.C. Morrison, H. Astete, S.T. Stoddard, V. Paz-Soldan, J.P. Elder, E.S. Halsey, T.W. Scott, U. Kitron, and G.M. Vazquez-Prokopec. 2014. Shifting patterns of *Aedes aegypti* fine scale spatial clustering in Iquitos, Peru. *PLoS Neglected Tropical Diseases*. 8: e3038.
- 237) Harrington, L.C., A. Fleisher, D. Ruiz-Moreno, F. Vermeulen, C.V. Wa, R.L. Poulson, J.D. Edman, J.M. Clark, J. Jones, S. Kitthawee, and T.W. Scott. 2014. Heterogeneous feeding patterns of the dengue vector, *Aedes aegypti*, on individual human hosts in rural Thailand. *PLoS Neglected Tropical Diseases*. 8: e3048.
- 238) Perkins, T.A., A.J. Garcia, V. Paz-Soldan, S.T. Stoddard, R.C. Reiner, Jr., G. Vazquez-Prokopec, D. Bisanzio, A.C. Morrison, E.S. Halsey, T.J. Kochel, D.L. Smith, U. Kitron, T.W. Scott, and A.J. Tatem. 2014. Theory and data for simulating fine-scale human movement in an urban environment. *J. Roy. Soc. Interface*. 11: 20140642.
- 239) Wilson, A.L., R. Dhiman, U. Kitron, T.W. Scott, H. van den Berg, and S.W. Lindsay. 2014. Benefit of insecticide-treated nets, curtains and screening on vector borne diseases, excluding malaria: A systematic review and meta-analysis. *PLoS Neglected Tropical Diseases*. 8: e3228.
- 240) Buddhari, D., J. Aldstadt, T.P. Endy, A. Srikiatkachorn, B. Thaisomboonsuk, C. Klungthong, A. Nisalak, B. Khuntirat, R.G. Jarman, S. Fernandez, S.J. Thomas, T.W. Scott, A.L. Rothman, I-K. Yoon. 2014. Dengue virus neutralizing antibody levels associated with protection from infection in Thai cluster studies. *PLoS Neglected Tropical Diseases*. 8: e3230.
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- 242) Perkins, T.A., R.C. Reiner, Jr., I. Rodriguez-Barraquer, D.L. Smith, T.W. Scott, and D.A.T. Cummings. 2014. A review of transmission models of dengue: A quantitative and qualitative analysis of model features. In: *Dengue and Dengue Hemorrhagic Fever*, eds. D.J. Gubler, E.E. Ooi, and J. Farrar. CABI Publishing.
- 243) Brady, O.J., H.C.J. Godfray, A.J. Tatem, P.W. Gething, J.M. Cohen, F. E. McKenzie, T.A. Perkins, R.C. Reiner Jr., L.S. Tusting, T.W. Scott, S.W. Lindsay, S.I. Hay, and D.L. Smith. 2015. Adult vector control, mosquito ecology, and malaria transmission. *Internat. Hlth*. 7:121-129.

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- 245) Achee, N.L., F. Gould, T.A. Perkins, R.C. Reiner, Jr., A.C. Morrison, S.A. Ritchie, D.J. Gubler, R. Teysou, and T.W. Scott. 2015. A critical assessment of vector control for dengue prevention. *PLoS Neglected Tropical Diseases*. 9: e0003655.
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- 252) Duong, V., L. Lambrechts, R. Paul, S. Ly, S.R. Lay, K. Long, A. Tarantola, T.W. Scott, A. Sakuntabhai, and P. Buchy. 2015. Asymptomatic humans transmit dengue virus to mosquitoes. *Proc. Natl. Acad. Sci. USA*. 112: 14688-14693.
- 253) Paz-Soldan, V.A., J.J.C. Lopez, A.C. Morrison, A. Lenhart, J. Elder, M. Sihuinchu, T.W. Scott, T. Kochel, E. Halsey, H. Astete, and P.J. McCall. 2015. Dengue knowledge and preventive practices in Iquitos, Peru. *Am. J. Trop. Med. Hyg.* 93: 1330-1337.
- 254) Brady, O.J., H.C.J. Godfray, A.J. Tatem, P.W. Gething, J.M. Cohen, F.E. McKenzie, T.A. Perkins, R.C. Reiner Jr., L.S. Tusting, M.E. Sinka, C.L. Moyes, P.A. Eckhoff, T.W. Scott, S.W. Lindsay, S.I. Hay, and D.L. Smith. 2016. Vectorial capacity and vector control: reconsidering sensitivity to parameters for malaria elimination. *Trans. Roy. Soc. Trop. Med. Hyg.* 110: 107-117.
- 255) Vazquez-Prokopec, G.M., T.A. Perkins, L.A. Waller, A. Lloyd, R.C. Reiner, Jr., T.W. Scott, and U. Kitron. 2016. Coupled heterogeneities and their impact on parasite transmission and control. *Trends Parasit.* 32: 356-367.
- 256) Forshey, B.M., R.C. Reiner, Jr., S.M. Olkowski, A.C. Morrison, A. Espinoza, K.C. Long, S. Vilcarrmerro, W. Casanova, H.J. Wearing, E.S. Halsey, T.J. Kochel, T.W. Scott, and

- S.T. Stoddard. 2016. Incomplete protection against dengue virus type 2 re-infection in Peru: An analysis of observational longitudinal cohort, febrile surveillance, and contact tracing studies. *PLoS Neglected Tropical Diseases*. 10: e0004398.
- 257) Fansiri, T., A. Pongsiri, A. Ponlawat, B. Thaisomboonsuk, R.G. Jarman, T.W. Scott, and L. Lambrechts. 2016. No evidence for local adaptation of dengue viruses to mosquito vector populations at a regional scale in Thailand. *Evol. Applications*.
- 258) Paz-Soldan, V.A., J.J.C. Lopez, K. Bauer, K. Izumi, A.C. Morrison, T.W. Scott, J.P. Elder, P.J. McCall, N. Alexander, E.S. Halsey, and A. Lenhart. 2016. Factors associated with correct and consistent insecticide treated curtain use in Iquitos, Peru. *PLoS Neglected Tropical Diseases*. 10: e0004409.
- 259) Reiner, Jr., R.C., N. Achee, R. Barrera, T.R. Burkot, D.D. Chadee, G. Devine, T. Endy, D. Gubler, J. Homback, I. Kleinschmidt, A. Lenhart, S. Lindsay, I. Longini, M. Mondy, A. Morrison, T.A. Perkins, G. Vazquez-Prokopec, P. Reiter, S. Ritchie, D.L. Smith, D. Strickman, and T.W. Scott. 2016. Quantifying the epidemiological impact of vector control on dengue. *PLoS Neglected Tropical Diseases*. 10: e0004588.
- 260) Messina, J.P., M.U.G. Kraemer, O.J. Brady, D.M. Pigott, F. Shearer, E. Cohn, J.S. Brownstein, T. Janisch, T.W. Scott, S.I. Hay, S.I. 2016. Mapping the global environmental niche of Zika virus. *eLife*. 5: e15272.
- 261) Paz-Soldan, V.A., A.C. Morrison, K. Bauer, J.J. Cordova Lopez, P. McCall, J.P. Elder, T.W. Scott, T.J. Kochel, and A. Lenhart. 2016. Experiences with insecticide-treated curtains: A qualitative study in Iquitos, Peru. *BMC Public Health*. 16: 582.
- 262) Perkins, T.A., V.A. Paz-Soldan, S.T. Stoddard, A.C. Morrison, B.M. Forshey, K.C. Long, E.S. Halsey, T.J. Kochel, J.P. Elder, U. Kitron, T.W. Scott, and G.M. Vazquez-Prokopec. Calling in sick: Impacts of fever on intra-urban human mobility. *Proc. Roy. Soc B*. 283: 20160390.

Papers in press:

Papers under review:

- Sulca, J., K.C. Long, T.W. Scott, C. Guevara, M. Silva, E. Castillo, and A.C. Morrison. Comparando la prueba de focos fluorescentes con la prueba de Plaqueo en casos confirmados de dengue. *Revista Peruana de Medicina Experimental*.
- Melendrez, M.C., P. Chinnawirotpisan, A. Ponlawat, C. Klungthong, S.J. Thomas, R.V. Gibbons, A.L. Rothman, T.P. Endy, I-K. Yoon, T.W. Scott, J.H. Richardson and R.G. Jarman. Viral population complexity analysis of Dengue virus serotype 3 isolates from Kamphaeng Phet, Thailand. *Genetics and Evolution*.
- ten Bosch, Q.A., H.E. Clapham, L. Lambrechts, B.M. Althouse, A.L. Lloyd, L.A. Waller, A.C. Morrison, U. Kitron, G.M. Vazquez-Prokopec, T.W. Scott, and T.A. Perkins. Contributions from the silent majority to dengue virus transmission.
- Perkins, T.A., R.C. Reiner, Q.A. ten Bosch, G. España, A. Verma, K.A. Liebman, V. Paz-Soldan, J.P. Elder, A.C. Morrison, S.T. Stoddard, U. Kitron, G.M. Vazquez-Prokopec, T.W. Scott, and D.L. Smith. Statistical and biological uncertainties associated with vaccine efficacy estimates and their implications for dengue vaccine impact projections. *PLoS Comp. Bio*.

Aldstadt, J., D. Buddhari, C.J.M. Koenraadt, T. Fansiri, J.W. Jones, U. Kijchalao, A. Getis, J. Richardson, R.G. Jarman, A.C. Morrison, R.V. Gibbons, M.P. Mammen, A. Srikiatkachorn, C. Pimgate, T.W. Scott, T.P. Endy, and I-K. Yoon. Dengue virus infection risk associated with household entomological counts in rural Thailand.

Invited Presentations:

- 2016 Transmission Dynamics: Role of Asymptomatic Cases (Zika Virus in the Americas: An HHS Expert Consultation to Accelerate the Development of Countermeasures)
Opportunities for Improved Public Health at the Interface of Ecology and Epidemiology (Voices in the Vanguard Lecture, University of Georgia)
Disease Reservoirs and Vectors (Research Priorities to Inform Public Health and Medical Practice for Domestic Zika Virus, National Academy of Science, Washington, DC)
Integrating Vaccines and Vector Control for Dengue Prevention (International Congress of Entomology, Orlando, FL)
- 2015 Global Dengue Trends, Tools to Reverse the Trends, and a Case for Targeted Control (American Society of Tropical Medicine and Hygiene, Philadelphia)
Embracing Complexity: The Path to Improved Public Health Entomology (Charles W. Woodward Award, Entomological Society of America)
Status and Frontiers of Vector Control (CDC Public Health Grand Rounds: Controlling *Aedes* Mosquitoes to Prevent Dengue, Chikungunya, Yellow Fever and Zika)
Dengue Vector Control – An Overview (World Health Organization Technical Working Group Meeting for Dengue, Geneva)
Dynamic Transmission of Dengue and the Challenges for its Control (14th International Dengue Course, Havana, Cuba)
- 2014 Epidemiologically Relevant Heterogeneities in Dengue Virus Transmission (Brandon Brei Memorial Lecture, Department of Epidemiology of Microbial Diseases, Yale School of Public Health)
Fine-Scale Patterns in Dengue Invasion and Persistence (IXth Louis Pasteur Conference, Emerging Infectious Diseases, Paris, France)
Vaccines and Vector Control for Dengue Prevention (Mathematical Modelling of Dengue Intervention Impact, World Health Organization, Geneva)
Modeling Dengue Virus Transmission (Integrating Prediction and Forecasting Models for Decision-making: Dengue Epidemic Prediction, White House Office of Science and Technology Policy, Washington, DC)
Dengue Outbreak Response in a Dynamic Environment (American Society of Tropical Medicine and Hygiene, New Orleans)
- 2013 Modeling the Dynamics and Control of Vector-Borne Disease: History and Prospects for the Future (International Workshop on *Aedes albopictus*, the Asian tiger mosquito, Pavia, Italy)
Overlapping Social Movement and the Hidden Heterogeneity of Dengue Transmission

- (Università di Roma La Sapienza, Rome, Italy)
- Dengue Control Prevents *Aedes aegypti*-Borne Disease (Dengue Prevention Consortium, San Diego, CA)
- Sustainable Vector Control and Update on New Tools and Technologies (World Health Organization, Geneva)
- Dengue Ecology, Epidemiology and Prevention (SUNY Upstate Medical University, Syracuse, NY)
- The Interplay Between *Aedes aegypti* Ecology and Dengue Epidemiology (Third International Conference on Dengue and Dengue Hemorrhagic Fever, Bangkok, Thailand)
- Heterotypic Immune Protection Against Dengue Disease (NIH consultation, Dengue Vaccine Consultation, Washington, DC)
- Lessons from the past and prospects for the future in *Aedes aegypti* control (II International Meeting for the control of *Aedes aegypti*, X International Congress: 25 Years of Dengue Surveillance in Panama – 85th Anniversary Gorgas Commemorative Institute, Panama City, Panama)
- The UC Davis Program on Modeling Dengue Surveillance and Prevention (5th Dengue v2V Steering Committee Meeting, Annecy, France)
- 2012 Pathogen Transmission Dynamics at the Human-Mosquito Interface (Plenary talk, International Congress of Entomology, Daegu, Korea)
- Human Movement Drives Dengue Virus Transmission Dynamics (Liverpool School of Tropical Medicine, Liverpool, UK)
- Human Movement and Dengue Virus Transmission (Naval Medical Research Unit – 6, Lima Peru)
- Human Movement and Dengue Virus Transmission Dynamics (UC Berkeley, Berkeley, CA)
- Evaluating Interventions for Dengue Control and Prevention (American Society of Tropical Medicine and Hygiene, Atlanta, GA)
- 2011 Opportunities for Improving Dengue Prevention (Curso Internacional de Enfermedades Tropicales e Infecciosas, Regional del Colegio Médico, Iquitos, Perú)
- Movement and the Dynamics of Dengue Virus Transmission (Dirección General de Epidemiología, Ministerio de Salud, Lima, Peru)
- Vector Control – Lessons from the Past and Prospects for the Future (Re-emerging Arthropod-Borne Viral Infections of Global Public Health Importance, NIH, Bethesda, MD)
- An Overview of Dengue Vector Ecology and Epidemiology (Re-Emerging Challenge in the Americas: Opportunities for Dengue Research Collaboration, NIH consultation, San Juan, Puerto Rico)
- 2010 The Dengue Prevention Consortium (Dirección General de Epidemiología, Ministerio de Salud, Lima, Peru)

- Current UC Davis dengue research activities in Iquitos, Peru (United States Naval Medical Research Center Detachment, Lima, Peru)
- Human movement and risk of dengue exposure (US-Japan Parasitic Disease and Immunology Joint Panel Meeting, San Diego, CA)
- Dengue epidemiology as viewed through the lens of longitudinal field studies (Department of Virology, Institut Pasteur, Paris, France)
- Human and mosquito movement and dengue transmission in Iquitos: Why model movement? (American Society of Tropical Medicine and Hygiene, Atlanta, GA)
- Dengue virus transmission, geographic scale and human and vector movement. (American Society of Tropical Medicine and Hygiene, Atlanta, GA)
- 2009 Adaptive disease management for dengue prevention (Gordon Conference, Galveston, TX)
- For disease prevention, details in mosquito biology can make a difference? (Research and Policy for Infectious Disease Dynamics, Fogarty International, Bethesda, MD)
- 2008 Distinguished seminar in Vector Biology: The case for dengue control by adaptive disease management (Rutgers University)
- Adaptive disease management for dengue prevention (10th Arbovirus Research in Australia Symposium, Coffs Harbour, New South Wales, Australia)
- Vector control for prevention of dengue (4th Pan Pacific Conference on Pesticide Science, Honolulu, Hawaii)
- Heterogeneities in dengue transmission: Implications for disease prevention strategies (Roche, Palo Alto)
- Spatially and temporally targeted vector-borne disease interventions (International Congress of Entomology, Durban, South Africa)
- Establish field sites for genetic control trials (Instituto Nacional de Salud Pública, Cuernavaca, Mexico)
- Dengue prevention: Current concepts and future opportunities (Instituto Nacional de Salud Pública, Cuernavaca, Mexico)
- Adaptive disease management for dengue prevention (Plenary speaker, 10th Arbovirus Research in Australia Symposium, Coffs Harbour, New South Wales, Australia)
- Adaptive surveillance and intervention for dengue prevention (Society for Vector Ecology, Fort Collins, CO)
- Ecology and epidemiology of dengue: A case study from Thailand (Second international Conference on Dengue and Dengue Hemorrhagic Fever, Phuket, Thailand)
- Increased understanding of dengue transmission dynamics will improve disease prevention (Center for Infectious Disease Dynamics, Penn State University)
- Focusing vector interventions on the home for prevention of dengue (American Society of Tropical Medicine and Hygiene, New Orleans)

- 2007 Cluster sampling around clinically ill dengue cases (US-Japan Parasitic Disease Panel, Tokyo, Japan)
- Why the ecological perspective is necessary for prevention of dengue (Johns Hopkins University)
- Cluster sampling around clinically ill cases: A method for obtaining detailed information on transmission of arthropod-borne infectious disease (Molecular and Population Biology of Mosquitoes and Other Disease Vectors, Kolymbari, Crete, Greece)
- Longitudinal field studies will guide a paradigm shift in dengue prevention (Institute of Medicine Forum on Vector-borne Diseases: Understanding the Environmental, Human Health, and Ecological Connections, Fort Collins, CO)
- Dengue (video for Continuing Education, Sutter-Yuba Mosquito and Vector Control District)
- The innovative vector control consortium (10th International Dengue Course, Havana, Cuba)
- Theory and practice in vector control for dengue prevention (Symposium on Vector Biology, Ecology and Control Celebration of Professor Mir Mulla's 50 Years at UC Riverside)
- Mosquito senescence: Implications and unexplored opportunities (Symposium on Frontiers in Vector Molecular Physiology, Entomological Society of America, San Diego)
- 2006 Global strategies for controlling urban *Aedes aegypti*-transmitted arboviruses (Plenary talk, Society for Vector Ecology, Anchorage, AK)
- Dengue: Assessing risk and preventing disease (Commemorative symposium for Dr. Felix Prashantha Amerasinghe, Colombo, Sri Lanka)
- Mosquito host-seeking and blood-feeding behavior Entomological thresholds for dengue transmission (The Colorado State University course on Biology of Disease Vectors, Liverpool School of Tropical medicine, Liverpool, UK)
- Dengue fever: The theory and practice of disease prevention (Animal Science Department, UC Davis)
- 2005 Testing assumptions of a mosquito's role in pathogen transmission: The case of *Aedes aegypti* and dengue virus (Department of Entomology, North Carolina State University)
- Mosquito host-seeking and blood-feeding behavior Entomological thresholds for dengue transmission (The Colorado State University course on Biology of Disease Vectors, Mahidol University, Bangkok, Thailand)
- Longitudinal studies of dengue transmission in Peru and Thailand (Epidemiology Graduate Group Seminar Series, UC Davis)
- Vector competence of California mosquitoes for West Nile virus (Sutter-Yuba Mosquito Abatement Continuing education)
- Longitudinal tests of entomological assumptions for dengue control (American Society of Tropical Medicine and Hygiene, Washington, DC)

- A field biologist's perspective on evaluation and application of genetically modified mosquitoes for disease prevention (International Congress for Vector Ecology, Reno, NV)
- 2004 Testing assumptions of a mosquito's role in pathogen transmission (University of Texas Medical Branch, Galveston, TX)
- The ecological underpinnings of a mosquito's role in pathogen transmission: Why *Aedes aegypti* is so dangerous (Yale University, New Haven, CT)
- Measurable decrease in clinical dengue following vector reduction in Iquitos, Peru (Genetic Manipulation of Insects, Keystone Conference, Taos, New Mexico)
- Fitness studies: Developing a consensus methodology (World Health Organization Working Group on Strategic Plan to Bridge Laboratory and Field Research in Disease Vector Control, Nairobi, Kenya)
- Current thoughts about genetic application and integration of field and laboratory science (World Health Organization Working Group on Strategic Plan to Bridge Laboratory and Field Research in Disease Vector Control, Nairobi, Kenya)
- Measures of *Aedes aegypti* density and the risk of dengue virus transmission (Mosquito Control Association of Australia, Noosa, Australia)
- Ecological ideas about mosquito-borne disease prevention (40th Anniversary of the United States – Japan Cooperative Medical Sciences Program, Kyoto, Japan)
- The role of mosquitoes in transmission of dengue virus (Northern California Parasitological Association, Davis, CA)
- 2003 Disease management by mosquito density reduction: What exactly are we getting into? (Molecular and Population Biology of Mosquitoes, Kolymbari, Crete, Greece)
- Malaria Resistant Mosquitoes (GMOs in 2030: Reaping the Promise While Leaping the Pitfalls? Riverside, CA)
- Ecological challenges to the application of transgenic mosquitoes for disease control (Fourth International Workshop on Transgenesis and Genomics of Invertebrate Organisms, Asilomar Conference Center, Pacific Grove, CA)
- Mosquitoes: Virus transmission, surveillance, and control (West Nile Scientific Seminar, UC Davis Equine Health Center, Davis, CA)
- West Nile surveillance in California (Rotary International, Vacaville, CA)
- Ecological considerations important for population replacement strategies (Entomological Society of America, Cincinnati, OH)
- Dissecting the ecological components of *Aedes aegypti*'s role in dengue virus transmission (American Society of Tropical Medicine and Hygiene, Philadelphia, PA)
- 2002 Mosquito ecology and vector-borne disease control (U.S. – Russian Workshop on Ecology of Infectious Diseases; U.S. National Institutes of Health and National Science Foundation, Russian Academy of Sciences, Russian Academy of Medical Sciences, Russian Foundation for Basic Research, and Russian State Research Center of Virology and Biotechnology; Koltsovo, Novosibirsk, Russia)

- Blood feeding behavior makes *Aedes aegypti* a remarkably efficient vector of dengue viruses (Entomological Society of America, Fort Lauderdale, FL)
- The ecology of genetically modified mosquitoes (The 37th Joint Conference of the US-Japan Cooperative Medical Program, Parasitic Diseases Division, Nagasaki, Japan)
- Why ecological studies are critical for the control of vector-borne diseases (American Mosquito Control Association, Denver)
- Surveillance for West Nile virus in California (Medical School Advisory Panel, College of Agriculture and Environmental Sciences, UC Davis)
- West Nile virus surveillance in California (Sutter-Yuba Mosquito and Vector Control Association)
- 2001 Challenges for risk assessment in vector release experiments (Genetic Manipulation of Insects, Keystone Conference, Taos, New Mexico)
- Can vector-borne diseases be managed by controlling vectors? The case of *Aedes aegypti* and dengue – Griswald Lecture (Department of Entomology, Cornell University, Ithaca, NY)
- Mosquito mortality dynamics are important for understanding and controlling pathogen transmission (International Congress for Vector Ecology, Barcelona, Spain)
- Modeling disease transmission (Genetically Engineered Arthropod Vectors of Human Infectious Diseases, World Health Organization and the National Institutes of Health, London, UK)
- Vector control for dengue is dependent on understanding the relationship between entomological risk and virus transmission (New Dimensions and Policies for Dengue Prevention and Control, World Health Organization, Singapore)
- Testing entomological assumptions of dengue control (Annual meeting of the program on International Centers for Tropical Disease Research, NIH, Bethesda, MD)
- 2000 Feeding behavior of *Aedes aegypti* and dengue virus transmission (Mahidol University, Bangkok, Thailand)
- Feeding behavior of *Aedes aegypti* and dengue virus transmission (International Congress of Entomology, Iguassu, Brazil)
- Why the mosquito *Aedes aegypti* is such an efficient vector of dengue virus (Departments of Entomology and Ecology, Evolution and Behavior, University of Minnesota)
- Patterns of blood feeding and mortality that support *Aedes aegypti*'s role in dengue virus transmission (Department of Entomology, Ohio State University)
- Entomological thresholds and spatial variation in arbovirus transmission (Society of Vector Ecology, Berkeley, CA)
- The future of arbovirus surveillance in California (Mosquito & Vector Control Association of California, Sacramento)
- 1999 Biodemographic and edpidemiologic consequences of mortality in the yellow fever mosquito (Colloquium on the Social and Biological Determinants of Longevity, Rostock, Germany)

- Mortality and blood feeding patterns of *Aedes aegypti* (American Society of Tropical Medicine and Hygiene, Washington, DC)
- Unusual Blood-Feeding Behavior Makes *Aedes aegypti* a Dangerous Vector of Dengue Virus (California Academy of Sciences, San Francisco)
- Analyses of Arbovirus Activity in Wild Birds and Sentinel Chickens for Mosquito Control (Northern San Joaquin Valley Region, Mosquito and Vector Control Association of California, Turlock)
- Serologic Testing of Wild Birds and Sentinel Chickens for Arbovirus Surveillance (Sacramento Valley Region, Mosquito and Vector Control Association of California, Sacramento)
- 1998 Dengue: An Emerging Worldwide Disease. (Entomological Society of America, Las Vegas)
- Studies on *Aedes aegypti* Blood and Sugar Feeding. (Mahidol University, Bangkok, Thailand)
- What Makes *Aedes aegypti* Such an Efficient Arbovirus Vector (Yale University)
- Center for Vector-Borne Disease Research (Center for Comparative Medicine, Executive Committee Meeting, UC Davis)
- Aedes aegypti* and Dengue: a Model for Vector-Borne Diseases, *Aedes aegypti* Blood Feeding Behavior (2 lectures at the Colorado State University course entitled “Biology of Disease vectors”)
- 1997 Blood Feeding Behavior of *Aedes aegypti* (International Congress of Vector Ecology, Orlando, FL)
- Aedes aegypti*: A Remarkably Efficient Vector of Dengue Viruses (University of California at Riverside)
- Global Dimensions of Insect Transmitted Diseases (Entomological Society of America, Nashville, TN)
- Dengue in Latin America & the United States (Entomological Society of America, Nashville, TN)
- 1996 Mosquitoes and Arbovirus Evolution (Society of Systematic Biologists, St. Louis)
- Fitness Outcomes: Reproductive Consequences of Mosquito Feeding Patterns (Entomological Society of America, Louisville)
- Aedes aegypti*: Biological Adaptations to Promote Dengue Transmission (American Society of Tropical Medicine and Hygiene, Baltimore, MD)
- 1995 Longitudinal Studies of *Aedes aegypti* and Dengue Transmission in Southeast Asia and the New World Tropics (Mahidol University, Bangkok, Thailand)
- The Nature of Vector-Borne Diseases (International Symposium on Vector-Borne Disease in Third World Countries, Baltimore)
- The Biology of *Aedes aegypti* and Transmission of Dengue Virus (Department of Entomology, University of Massachusetts)

- Evolution of Mosquito-Virus Interactions (Entomological Society of America, Las Vegas)
- 1994 Multiple-Feeding by *Aedes aegypti* (International Dipterology Congress, Guelph, Ontario, Canada)
- The Ecological and Epidemiological Consequences of Frequent Blood Feeding by *Aedes aegypti* (Department of Entomology, Rutgers University)
- An Ecological Perspective of *Aedes aegypti* and the Transmission of Dengue Viruses in the New and Old World Tropics (Department of Entomology, University of Delaware)
- Blood Feeding Behavior of *Aedes aegypti* and Dengue Transmission in Thailand and Puerto Rico (Department of Entomology, University of Maryland)
- 1993 A macroevolutionary perspective of the interaction between mosquitoes and new world alphaviruses (Virus Biology Unit, United States Army Research Institute for Infectious Diseases, Fort Detrick, Frederick, MD)
- Mosquitoes and the evolution of alphaviruses (International Congress for Vector Ecology, San Diego)
- 1992 Multiple Blood Feeding in *Aedes aegypti* (American Society of Tropical Medicine and Hygiene, Seattle; sponsored by the MacArthur Foundation)
- Bionomics of *Aedes aegypti*: The Role of Multiple Feeding in Dengue Transmission (XIIIth International Congress for Tropical Medicine & Malaria, Pattaya, Thailand)
- 1991 Arbovirus Surveillance in the Mid-Atlantic States (American Mosquito Control Association, New Orleans)
- The Ecology and Evolution of the Interaction Between Eastern Equine Encephalomyelitis Virus and its North American Mosquito Vector, *Culiseta melanura* (Department of Immunology and Infectious Disease, Johns Hopkins University, Baltimore, MD)
- The Ecology and Evolution of the Interaction Between Eastern Equine Encephalomyelitis Virus and its North American Mosquito Vector, *Culiseta melanura* (Virology Division, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD)
- Blood-Feeding Behavior of *Aedes aegypti* in a Rural Village in Southeastern Thailand (Virginia Mosquito Control Association, Virginia Beach, VA)
- Blood-feeding behavior of *Aedes aegypti* and Dengue Virus Transmission in Rural Southeastern Thailand (International Rice Research Institute, Los Banos, Philippines)
- Blood-feeding Behavior of *Aedes aegypti* in a Rural Village Near Chachoeangsao, Thailand (Dengue Branch, Centers for Disease Control, San Juan, PR)
- The Evolution and Ecology of the Interaction Between Eastern Equine Encephalomyelitis Virus and its Mosquito Vector, *Culiseta melanura* (Department of Entomology, Rutgers University)
- Evolution of New World Alphaviruses (Center for Agricultural Biotechnology, University of Maryland)
- 1989 Epidemiology and Evolution of Eastern Equine Encephalomyelitis Virus Transmission by Mosquitoes (Department of Microbiology, University of Maryland Medical School,

- Baltimore)
- 1988 Mosquito-Host Interactions in Arbovirus Transmission Cycles (Facultad de Medicina, Universidad Nacional Autonoma de Mexico and Salud del Gobierno del Estado de Morelos, Cuernavaca, Mexico)
- A Histological Technique for Detecting Multiple-Blood Feeding by Mosquitoes (4th Coordinating Meeting, BOSTID-Mosquito Vector Research Program, Washington, DC).
- Role of Birds in the Transmission of Arthropod-Borne Viruses (Avian Responses to Parasitism, The American Ornithologist's Union, Fayetteville, AR)
- Eastern Equine Encephalomyelitis Virus and *Culiseta melanura*: A Model System for Studying Arbovirus Transmission Dynamics (Vector Biology and Control Project, U.S.A.I.D., Arlington, VA)
- Adventures with John Edman: Six Years of Medical Entomology Research (Department of Entomology, University of Massachusetts)
- Eastern Equine Encephalomyelitis Virus: Epidemiology and Evolution of Mosquito Virus Transmission (Department of Microbiology and Immunology, Medical College of Pennsylvania, Philadelphia)
- 1987 Epidemic Disease Potential in Maryland: Interactions Among Mosquitoes, Viruses, and Hosts (The Entomological Society of Washington, Washington, DC)
- Mosquito-Virus Interactions and the Transmission of Eastern Equine Encephalomyelitis Virus (Department of Entomology, University of Georgia)
- The Ecology of Vertebrate Hosts in Arbovirus Transmission Cycles (School of Hygiene and Public Health, The Johns Hopkins University, Baltimore)
- Effects of Larval Ecology on Vectorial Capacity of Adult Mosquitoes (3rd Co-ordinating Meeting, BOSTID-Mosquito Vector Research Program, Pattaya, Thailand)
- Enzyme Immunoassays for Detection of Arbovirus Viral Antigens in Mosquitoes (3rd Co-ordinating Meeting, BOSTID-Mosquito Vector Research Program, Pattaya, Thailand)
- Disease Cycles in the Mid-Atlantic States (Centers for Disease Control, Training Course for Control of Vector Mosquitoes, Old Dominion University, Norfolk, VA)
- 1986 Rapid Dissemination of Eastern Equine Encephalomyelitis Virus in *Culiseta melanura* and its Impact on Epidemic Disease (Insects Affecting Man and Animals Research Laboratory, Gainesville, FL)
- Rapid Transmission of Eastern Equine Encephalomyelitis Virus in *Culiseta melanura* (Colloquium on Vector Competence, Society of Vector Ecologists, Riverside, CA)
- Simulation Modeling of Mosquito-Borne Viruses: an Example of how Modeling can Influence Research Goals (Colloquium on Modeling in Vector Research, Society of Vector Ecologists, Riverside, CA)
- Recent Developments in Research on Eastern Equine Encephalitis in Maryland (Symposium on Arthropod Transmitted Diseases in the Northeast, Eastern Branch Meeting, Entomological Society of America, Philadelphia, PA)
- Arthropod Transmitted Diseases in Maryland (Continuing Medical Education, Memorial

- Hospital, Easton, MD)
- Eastern Equine Encephalitis: a Review (Virginia Mosquito Control Association, Williamsburg, VA)
- The Impact of Mosquito-Virus Interactions on the Transmission of Eastern Equine Encephalomyelitis Virus (School of Osteopathic Medicine, Ohio University, Athens, OH)
- 1985 The Effect of Fort Morgan Virus on the Survival and Reproduction of its Vertebrate Hosts (School of Hygiene and Public Health, The Johns Hopkins University, Baltimore)
- 1984 Rapid Dissemination of Eastern Equine Encephalitis Virus in its Mosquito Vector, *Culiseta melanura* (Department of Microbiology, University of Maryland Medical School, University of Maryland at Baltimore)
- Maintenance of Arthropod Transmitted Diseases and Factors that Contribute to Epidemics (Keynote Address, Chesapeake Environmental Conference of the Maryland Association of Sanitarians, Inc., Frederick, MD)
- Rapid Dissemination of Eastern Equine Encephalitis Virus in its Enzootic Mosquito Vector, *Culiseta melanura* (Department of Biological Sciences, University of Maryland Baltimore County)
- Rapid Dissemination of Eastern Equine Encephalitis Virus in its Enzootic Mosquito Vector, *Culiseta melanura* (Virology Division, Department of Arboviral Entomology, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD)
- Detection of Arboviral Antigen in Mosquitoes and Vertebrate Sera by Enzyme Immunoassay (Department of Entomology, University of Maryland)
- 1983 Rapid Dissemination of Eastern Equine Encephalitis Virus in *Culiseta melanura* and its Significance to Vertebrate Disease (Inter-Departmental Seminar: Veterinary Science, Microbiology, and Entomology Departments; The Pennsylvania State University)
- 1982 The Pathogenesis of Eastern Equine Encephalitis Virus in *Culiseta melanura* (Department of Epidemiology and Public Health, Yale School of Medicine)
- A Simulation Model for the Vector-Host Transmission System of a Mosquito-Borne Avian Virus, Turlock (Bunyaviridae) (Yale Arbovirus Research Unit, Yale School of Medicine)
- 1981 A Computer Simulation Model for the Vector-Host Transmission System of a Mosquito-Borne Avian Virus, Turlock (Bunyaviridae) (Vector-borne Diseases Division, Centers for Disease Control, Fort Collins, CO)
- Why are there Epizootics of Arboviral Diseases? (Veterinary Science Department, The Pennsylvania State University)
- 1980 Why do Brown-headed Cowbirds Perform the Head-Down Display? (Ecology Seminar, The Pennsylvania State University)

Presentations at National and International Meetings:

- 2013 Human movement and the dynamics of dengue virus transmission (American Society of

- Tropical Medicine and Hygiene, Washington, D.C.)
- 2011 The spatial dimensions of dengue transmission and evaluation of mosquito interventions (American Society of Tropical Medicine and Hygiene, Philadelphia, PA)
Human heterogeneities in dengue virus transmission (Entomological Society of America, Sparks, NV)
- 2009 Where do people get infected and how will knowledge of high-risk exposure affect strategies for dengue prevention? (Molecular and Population Biology of Insect Disease Vectors, Kolymbari, Crete, Greece)
From household to community: Indicators of risk and the implications for prevention strategies (American Society of Tropical Medicine and Hygiene, Washington, D.C.)
- 2008 A residual demography method for estimating age-structure of wild mosquito vector populations (American Society of Tropical Medicine and Hygiene, New Orleans)
- 2007 Cluster sampling around clinically ill cases: A method for obtaining detailed information on transmission of arthropod-borne infectious disease (Molecular and Population Biology of Insect Disease Vectors, Kolymbari, Crete, Greece)
The value of local and focal control for dengue (American Society of Tropical Medicine and Hygiene, Philadelphia)
- 2006 Age-structure of *Aedes aegypti* populations and intra-annual variation in dengue transmission (American Society of Tropical Medicine and Hygiene, Atlanta)
- 2005 A comparison of DNA profiling of human blood meals in *Aedes* and *Anopheles* Entomological Society of America, Fort Lauderdale, FL)
Impact of entomological heterogeneities on dengue virus transmission (Molecular and Population Biology of Insect Disease Vectors, Kolymbari, Crete, Greece)
- 2004 Measurable decrease in the incidence of clinical dengue following vector reduction in Iquitos, Peru (Keystone Symposia, Taos, NM)
- 2002 The senile mosquito (American Society of Tropical Medicine and Hygiene, Denver)
Mosquito density and risk of human infection (Ecology of transgenic mosquitoes, Wageningen University, Wageningen, The Netherlands)
- 2001 Reconstructing human host contacts by *Aedes aegypti* in Puerto Rico and Thailand using DNA fingerprinting (Entomological Society of America, San Diego)
Mosquito mortality dynamics are important for understanding and controlling pathogen transmission (International Congress of Vector Ecology, Barcelona, Spain)
- 2000 Spatial patterns in the incidence of dengue virus transmission in Iquitos, Peru (American Society of Tropical Medicine and Hygiene, Houston)
Spatial heterogeneity in *Aedes aegypti* population densities and dengue virus transmission in Iquitos, Peru (Entomological Society of America, Montreal)
- 1999 Mortality and blood feeding behavior of *Aedes aegypti* (American Society of Tropical Medicine and Hygiene, Washington, DC)
Entomological thresholds for dengue control (Entomological Society of America, Atlanta)

- Aedes aegypti* blood feeding frequency (European Society for Vector Ecology, Wageningen, The Netherlands)
- A Model Surveillance System for Arboviruses in California (American Mosquito Control Association, St. Louis)
- 1998 Longitudinal Studies of *Aedes aegypti* Blood-Feeding Patterns in Thailand and Puerto Rico (American Mosquito Control Association, Sparks, NV)
- 1997 Bionomics of *Aedes aegypti* in Thailand and Puerto Rico (American Mosquito Control Association, Salt Lake City)
- 1996 Infection of *Culiseta melanura* with South American Strains of Eastern Equine Encephalomyelitis Virus (American Mosquito Control Association, Norfolk, Virginia)
- 1995 Nutrient Reserves in Teneral *Aedes aegypti* (American Mosquito Control Association, Portland)
- 1994 Longitudinal Studies on *Aedes aegypti* Blood Feeding Behavior in Thailand and Puerto Rico (American Mosquito Control Association, San Diego)
- Frequent Blood Feeding Makes *Aedes aegypti* an Especially Efficient Disease Vector (Entomological Society of America, Dallas)
- Mosquito Virulence and the Evolution of Eastern Equine Encephalomyelitis Virus (American Society for Virology, Madison, WI)
- 1993 Virulence and the Evolution of Mosquito-Borne Viruses (Entomological Society of America, Indianapolis)
- 1992 The Effect of Infection with Eastern Equine Encephalomyelitis Virus on Reproductive Expectation for *Culiseta melanura* (American Mosquito Control Association, Corpus Christi, TX)
- Blood-Feeding Behavior of *Aedes aegypti* in Thailand and Puerto Rico (American Mosquito Control Association, Corpus Christi, TX)
- Blood-Feeding Behavior of *Aedes aegypti* in Relation to Dengue Transmission (International Congress of Entomology, Beijing, China)
- 1991 Blood-Feeding Behavior of *Aedes aegypti* in a Rural Village in Chachoengsao, Thailand (American Mosquito Control Association, New Orleans)
- Persistence of a Virulent Parasite: the Case of Eastern Equine Encephalomyelitis Virus in *Culiseta melanura* (American Mosquito Control Association, New Orleans)
- Evolutionary Implications of a Mosquito-Borne Virus Phylogeny (Entomological Society of America, Reno, NV)
- Blood-Feeding Behavior of *Aedes aegypti* in Rural Thailand and Urban Puerto Rico (Society for Vector Ecology, Sparks, NV)
- 1990 Blood-Feeding Behavior of *Aedes aegypti* in a Rural Village Near Chachoengsao, Thailand (International Symposium on Dengue and Haemorrhagic Fever, Bangkok, Thailand)
- Eastern Equine Encephalomyelitis Virus in the Mosquito, *Culiseta melanura*: Do Virulent

- Viruses Persist in Nature? (Entomological Society of America, New Orleans)
- Detrimental Effects of Eastern Equine Encephalomyelitis Virus on *Culiseta melanura* (American Mosquito Control Association, Lexington, KY).
- Blood-feeding Patterns of *Anopheles pseudopunctipennis* Collected in Mexico (American Mosquito Control Association, Lexington, KY).
- 1989 Detection of Multiple Blood Feeding by *Aedes aegypti* Using a Histological Technique (American Mosquito Control Association, Boston, MA)
- 1988 Alphavirus-Vector Interactions: Rapid Dissemination and Cytopathology (XVIII International Congress of Entomology, Vancouver, Canada)
- A Histological Examination of Engorged Mosquitoes (American Mosquito Control Association, Denver, CO)
- Multiple Host Contacts by *Culiseta melanura* and Transmission of Eastern Equine Encephalomyelitis Virus (American Society of Tropical Medicine and Hygiene, Washington, DC)
- 1987 Effects of Vertebrate Virus Infection on Mosquito Blood-Feeding Success (American Society of Tropical Medicine and Hygiene, Los Angeles, CA)
- Mosquito-Virus Interactions in the Transmission of Eastern Equine Encephalomyelitis Virus (VIIth International Congress of Virology, Edmonton, Alberta, Canada)
- The Use of Enzyme Immunoassays for the Surveillance and Diagnosis of Eastern Equine Encephalomyelitis Virus (American Mosquito Control Association, Seattle, WA)
- 1986 Arbovirus-Associated Pathology in the Midgut of the Vector Mosquito, *Culiseta melanura* (American Society of Tropical Medicine and Hygiene, Denver, CO)
- Surveillance and Rapid Diagnosis of Eastern Equine Encephalomyelitis Virus by Enzyme Immunoassay (American Society of Tropical Medicine and Hygiene, Denver, CO)
- 1985 Rapid Transmission of Eastern Equine Encephalomyelitis Virus by *Culiseta melanura* (The American Society of Tropical Medicine and Hygiene, Miami, FL)
- Effects of Disease on Vertebrates' Ability to Repel Host-Seeking Arthropods (Entomological Society of America, Hollywood, FL)
- 1984 Detection of Eastern Equine Encephalitis Viral Antigen in Avian Sera by Enzyme Immunoassay (The American Society of Tropical Medicine and Hygiene, Baltimore, MD)
- Host Selection by the Tick *Dermacentor andersoni* (Entomological Society of America, San Antonio, TX)
- A Brief Extrinsic Incubation Period for Eastern Equine Encephalitis Virus in its Mosquito Vector, *Culiseta melanura* (Annual Livestock Insect Workshop, Purdue University, West Lafayette, IN)
- Effects of Arbovirus Infection on the Reproductive Success of Cliff Swallows and House Sparrows in Colorado (American Ornithologists' Union, University of Kansas, Lawrence, KA)
- 1983 A Field Study on the Effects of Fort Morgan Virus on the Reproductive Success of

- Symbiotic Cliff Swallows and House Sparrows in Morgan County, Colorado (American Society of Tropical Medicine and Hygiene, San Antonio, TX)
- 1982 Computer Simulation Models and Arboviral Transmission Systems (Annual Meeting of Northeastern Arbovirologists and Medical Entomologists, Hyannis, MA)
Distribution and Development of Eastern Equine Encephalitis Virus Antigen in Orally Infected *Culiseta melanura* (American Society of Tropical Medicine and Hygiene, Cleveland, OH)
- 1981 A Computer Simulation Model for the Vector-Host Transmission System of a Mosquito-Borne Avian Virus, Turlock (Bunyaviridae) (Wildlife Disease Association, Laramie, WY)
- 1979 Avian Hosts of St. Louis Encephalitis Virus (Eighth Bird Control Seminar, Bowling Green State University)

Symposia Organized:

- 2014 Evaluating Outbreak Control for Mosquito-borne Pathogens (American Society of Tropical Medicine and Hygiene, New Orleans, LA, D.L. Smith and T.W. Scott)
- 2013 Individual and community level determinants of Dengue virus transmission and progress in field evaluation of Wolbachia for dengue control (American Society of Tropical Medicine and Hygiene, Washington, DC, C.P. Simmons and T.W. Scott)
- 2010 Modeling movement and mosquito-borne disease transmission (American Society of Tropical Medicine and Hygiene, Atlanta, GA, D.L. Smith and T.W. Scott)
- 2009 The spatial scale of dengue virus transmission: Implications for disease prevention (American Society of Tropical Medicine and Hygiene, Washington, D.C., K.M. Campbell and T.W. Scott)
- 2008 Emerging barriers to the management of vector-borne infectious diseases (UC Davis, T.W. Scott and A. Costero)
Prediction and prevention of vector-borne diseases (Society of Vector Ecology, Fort Collins, CO, T.W. Scott and L. Eisen)
- 2007 Heterogeneity and prevention of vector-borne disease (American Society of Tropical Medicine and Hygiene, Washington, D.C., T.W. Scott and D.L. Smith)
- 2002 Ecology of Transgenic Mosquitoes (Wageningen University, Wageningen, The Netherlands, T.W. Scott and W. Takken, Co-Organizers)
- 2001 Arthropod demographics (International Congress of Vector Ecology, Barcelona, Spain, T.W. Scott and B.H. Kay)
Management of insecticide resistance in medically important insects (Entomological Society of America, San Diego, T.W. Scott and L.C. Harrington)
- 2000 Surveillance and control of arboviruses (Society for Vector Ecology, Berkeley, CA)
- 1999 Vector research and human populations (American Society of Tropical Medicine and Hygiene, Washington, D.C., K.S. Aultman and T.W. Scott)

- Mosquito feeding behavior: Understanding the relationship between lab and field studies (Society of Vector Ecology, European Region, Wageningen, Netherlands, T.W. Scott and J.D. Edman)
- Population level considerations for vector control and disease prevention (Entomological Society of America, Atlanta)
- 1997 Biology and Control of *Aedes aegypti* (International Congress of Vector Ecology, Orlando, FL, T.W. Scott and J.D. Edman)
- 1996 Mosquito-Borne Diseases (Society for Vector Ecology, Berkeley, CA)
- 1994 Biology of *Aedes aegypti* (Entomological Society of America, Dallas, T.W. Scott and J.D. Edman)
- 1993 Host-Parasite Interactions (Entomological Society of America, Indianapolis, T.W. Scott and V.L. Mallampalli)
- 1992 Mosquitoes, Ticks, and Disease Transmission (Eastern Branch of the Entomological Society of America, Williamsburg)
- 1992 Biology of Mosquitoes in Relation to Disease Transmission (International Congress of Entomology, Beijing, China, J.D. Edman and T.W. Scott)
- 1991 Mosquito-Host Interactions and Arbovirus Evolution (Society for Vector Ecology, Reno)
- 1987 The Application of Molecular Biology to Problems in Arthropod-Borne Diseases (American Committee of Medical Entomology, American Society of Tropical Medicine and Hygiene, Los Angeles, T.W. Scott and A. Spielman)
- 1985 The Role of Vector-Host Interactions in Disease Transmission (Entomological Society of America, Hollywood, FL)

Courses Taught:

- 1975-1977 Laboratory Instructor, Department of Biological Sciences, Bowling Green State University
 Organisms and their Systems, Biology 202
 Man and his Environment, Biology 101
 Field Biology, Biology 432
- 1976-1979 Supervision of undergraduate research projects, Bowling Green State University and The Pennsylvania State University
- 1982-1983 Lecturer for team taught graduate courses, Department of Epidemiology and Public Health, Yale University
 Epidemiology of Arboviral and Other Zoonotic Diseases
 Ecology and Systematics of the Culicidae (Mosquitoes)
- 1984 Epidemiology of Arboviral Diseases, University of Maryland, College Park
 Graduate Topic Seminar, ENTM 798E
- 1984-1987 Lectures for courses taught at the University of Maryland, College Park
 Medical and Veterinary Entomology, ENTM 100
 Medical and Veterinary Entomology, ENTM 205
 Case Studies with Insects Affecting Man and Animals, ENTM 654

- Arbovirus Diseases, ENTM 472
- 1986 Medical and Veterinary Entomology, University of Maryland, College Park
Graduate Topic Seminar, ENTM 798E
- 1987 Vectorial Capacity, University of Maryland, College Park
Graduate Topic Seminar, ENTM 798E
- 1989-1994 Medical and Veterinary Entomology, University of Maryland, College Park
Graduate Topic Seminar, ENTM 798E
- 1992-1994 Ecology of Arthropod-borne Diseases, University of Maryland, College Park
Graduate 3 credit course
- 1996 Lectures for sources taught at the University of California at Davis
Conceptual Basis of Entomology, ENTM 200B
General Entomology, ENTM 100
- 1996 Vector-Borne Diseases, University of California at Davis
Graduate Seminar, ENTM 291
- 1996 Independent Research, University of California at Davis
Lower division 4-credit course, ENTM 99
- 1996-2015, University of California at Davis
Medical Entomology (upper division 3 credit course, ENTM 153)

Graduate Students and Post-Doctoral Fellows:

University of California at Davis:

Advisor:

L.B. Goddard, Ph.D., 1997-2003
J.L. Rasgon, Ph.D., 1998-2003
L.M. Styer, M.S. & Ph.D., 1998-2003
S. Minnick, M.S. & Ph.D., 2000-2007
J. Wong, M.S. & Ph.D., 2004-2011
N. Mans, M.S., 2004-2007
K. Liebman, Ph.D., 2007-2012
R. Albright, M.S., 2007-2009
M. Montgomery, M.S., 2007-2009
V. Armijos, Ph.D., 2012-2015
S. Olkowski, Ph.D., 2012-present

Post-Doctoral Fellows:

A. Costero, 1995-1997
A.C. Morrison, 1996-2001
L.C. Harrington, 1999-2001
C.F. Bosio, 2001-2003
J.L. Rasgon, 2003
C.J.M. Koenraad, 2003-2006
R. Vaidyanathan, 2003-2006
L. Lambrechts, 2006-2009
S. Stoddard, 2006-2011
T. Knox, 2006-2008
L. Facchinelli, 2006-2012
L. Valerio, 2008-2012

C. Ytuarte Núñez, 2008-2010
A. Ellis, 2008-2010
L. Carrington, 2009-2012
K.A. Long, 2010-2012
M. Legros, 2010-2012
R.K. Walsh, 2011-2012
T.A. Perkins, 2011-2014
R.C. Reiner, 2011-2014

Committee member: L.A. Vredevoe, Ph.D., 1997-1998
L.C. Harrington, Ph.D., 1996-1999 (Univ Mass)
Alongkot Ponlawat, M.S., 2003-2005 (Cornell Univ)
C. Nielsen, Ph.D., 2004-2007
Y.A. Girard, Ph.D., 2005-2007 (Univ Texas, Galveston)
T. Thiemann, Ph.D., 2005-2007
M. Melpas, Ph.D., 2005-2008
K Campbell, Ph.D., 2005-present (San Diego State Univ)
T. Morgan, M.S., 2006-2007
C. Baker, Ph.D., 2006-2007
S. ReMine, M.S., 2006-2007
H. Atieli, M.S., 2006-2008 (Moi Univ, Kenya)
E. Ototo, M.S., 2008-2011 (Egerton Univ, Kenya)
Anna Drexler, Ph.D., 2009-2013
Veronica Armijos, Ph.D., 2012-present

Graduate Exam Committee: N. Reese, Ph.D., 1997
F. J. Monge-Navarro, Ph.D. 2005
C. Barker, Ph.D. 2006
Thomas Turner, Ph.D. 2006
Nathan C. Nieto, Ph.D. 2006
M. Melpas, Ph.D., 2007
L. Riemer, Ph.D., 2007
A. Horton, Ph.D., 2007
T. Thiemann, Ph.D., 2007
P. Maharaj, Ph.D., 2008
A. Drexler, Ph.D., 2009
J. Wilson, Ph.D., 2009
B. Mills, Ph.D., 2011
E. Glennon, Ph.D., 2012
J. Carlson, Ph.D., 2012

University of Maryland at College Park:

Advisor: J.L. Putnam, Ph.D., 1989-1993
V.L. Mallampalli, Ph.D., 1988-1995
L.A. Cooper, Ph.D., 1990-1997

A. Naksathit, Ph.D., 1991-1996
E. Chow, M.S., 1994-1997

Committee member:

K. Vernick, M.S., 1983-1984
H.B. Jacobi, M.S., 1984-1986
D. Bushman, M.S., 1986-1987
J. Bentz, M.S., 1986-1988
M.A. Solis, Ph.D., 1985-1989
J. Bentz, Ph.D., 1989-1993
N. Mallampalli, M.S., 1990-1993
B. Wiegmann, Ph.D., 1991-1994
S. Mallipeddi, Ph.D., 1991-1994
R. Vaidyanathan, M.S., 1994-1996
L. Bartels-Andrews, Ph.D., 1994-1996

Committee and Other Professional Activities:

Agency for International Development, Grant Review Panels

Immunology and Biotechnology, 1986
Entomology, 1989-1990
Vector Control, 1992

American Mosquito Control Association

Finance Committee, 1989-1991
Editorial Board, *Journal of the American Mosquito Control Association*, 1990-1996
Chair of the Editorial Board, 1994-1996
Chair of Publications Committee, 1996-1999
Science and Technology Committee, 2001-2003

American Society of Tropical Medicine and Hygiene

Committee on Uniform Arthropod Vector Containment Guidelines, 1999-2003
American Committee on Arthropod-Borne Viruses
Executive Council, 1987-1991, 2002-2006
Subcommittee on Veterinary Arbovirology, 1986-1994
American Committee on Medical Entomology
Executive Council, 1984-1989, 2008-2011
Secretary-Treasurer, 1984-1989
Subject Editor, *American Journal of Tropical Medicine and Hygiene*, 2008-present
Program Committee, Annual Society Meeting, 2010-present
Robert E. Shope International Fellowship in Infectious Diseases Committee, 2013-present

Bill and Melinda Gates Foundation

Emerging Technologies for Vector Control, 2003
Proposal review, 2007
Virtual Network for Vector Control Tool Development, 2010
Designing field trials of new approaches for prevention of dengue transmission, 2011
Eliminate Dengue Trial Design Meeting, 2012
Consultation, Vector Control Portfolio Evaluation, 2013

Board on Science and Technology for International Development, National Research Council
 Consultant, Mosquito Vector Research Program, Bangkok, Thailand, 1987
 Grant Reviews, Mosquito Vector Research, 1987
 Consultant, Mosquito Vector Research Program, 1988

Centers for Disease Control and Prevention
 External Review, Dengue Branch, San Juan, PR, 1997
 Abstract Review, International Conference on Emerging Infectious Diseases, 1997

Environmental Protection Agency
 Grant Review, 1994

Entomological Society of America
 Subcommittee to review *Bulletin of the Entomological Society of America*, 1985
 Standing Committee on Insect Detection, Evaluation, and Prediction, 1989-1993
 Chair of Section D, 1995
 Executive Committee, Section D, 1994-1996
 Thomas Say Awards Committee, 2001-2004

International Congresses of Entomology
 Convenor, Medical & Veterinary Entomology, XXI International Congress of
 Entomology, Iguassu, Brazil, 1997-2000
 Council of the International Congresses of Entomology, 2012-2020

Journal of Insect Science
 Subject Editor, 2011-2014

Medical Research Council, United Kingdom
 Grant Review Panel, 2003, 2005

Mosquito and Vector Control Association of California
 Entomology Committee, 1996-2002
 West Nile Virus Steering Committee, 2000-2007

National Academy of Sciences, Institute of Medicine
 Rapatoire, Task Force on Emerging Viruses as Microbial Threats to Health, 1991

Natural Environment Research Council, United Kingdom
 Proposal Review Panel, 2004

National Institutes of Health
 Tropical Medicine and Parasitology Review Panel, 1987
 Entomology Review Panel, 1993, 1995-1997
 Fogarty International, Trilateral Conference on Emerging Diseases in the United States,
 Canada & Mexico, 1997
 United States – Japan Cooperative Medical Sciences Program, Parasitic Diseases Panel,
 2000-2014
 Tropical Medicine Research Centers Review Panel, 2000
 Tropical Disease Research Center Review Panel, 2001
 International Collaborations in Infectious Disease Research Review Panel, 2005, 2007,
 2014
 International Research in Infectious Diseases Research Review Panel, 2007
 Virology Review Panel, 2010
 Parasites and Vectors Review Panel, 2012
 Global Health Challenges and Collaborative Opportunities in Arbovirus Research,

Program Committee, 2015
 Tropical Infectious Disease Review Panel, 2016
 National Science Foundation
 Psychobiology Unit Grant Review Panel, 1987
 Ecology of Infectious Diseases Grant Review Panel, 2004-2006
 National University of the Peruvian Amazon, Zungaracocha-Campus Universitario San Juan
 Bautista, Loreto, PERU and the Regents of the University of California, Davis Campus,
 2010-present
 Naval Medical Research Unit Six (NAMRU-6), Lima, Peru
 Scientific Review Board, 2011-present
 Partnership for Dengue Control, 2013-present
 Director, 2016-present
 Steering Committee, 2013-2016
 Chair of Vector Control, 2013-2016
 Pew Initiative on Food and Biotechnology
 Steering Committee, Engineering Insects: Issues in the Science, Ethics, and Public Policy
 of Releasing GM Insects, 2004-2005
 Research and Policy in Infectious Disease Dynamics, Science and Technology Directorate,
 Department of Homeland Security, and Fogarty International Center, NIH
 Chair of Mosquito Modeling Working Group, 2009-2015
 Society for Vector Ecology
 Program Chair, annual meeting, 2002
 Vice President, 2001-2002
 President Elect, 2002-2003
 President, 2003-2004
 Program Committee, International Congress for Vector Ecology, 2004-2005
Transactions of the Royal Society of Tropical Medicine & Hygiene
 Editorial Board, 2013-present
 United States Department of Agriculture
 Grants Review, 1995-1996
 Future Directions and Research Priorities for the USDA Biotechnology Risk Assessment
 Research Grants Program, Steering Committee, 2003
 Wellcome Trust
 Grant Review Panel, 2003, 2005
 World Health Organization
 Grant Review, Dengue and Japanese Encephalitis Vaccine Program, 1992
 Member, Strategic Plan to Bridge Laboratory and Field Research in Disease Vector
 Control, 2003-2004
 Committee on Molecular Entomology Grant Review, 2003-2005
 Task Force on Clinical Trials of Dengue Vaccines, 2005-2006
 Efficacy Working Group on Genetically Modified Mosquitoes, 2010
 Global Collaboration for Development of Pesticides for Public Health, 2012
 Consultation on Dengue Prevention and Control, 2012
 Global Strategy for Dengue Prevention and Control, 2012
 Vector Control Advisory Group, 2013-2015

Estimating the Global Dengue Burden, 2014-present
Technical Working Group for Dengue, 2015-present

University of Maryland

Search Committee, Dean of Life Sciences, 1994-1995
Search Committee, Dean of Agriculture, 1994
Committee on Undergraduate Curriculum in Environmental Sciences, 1991-1993
Promotion and Tenure Committee, Colleges of Agriculture and Life Sciences,
1989, 1993-1994
Biological and Chemical Safety Committee, 1983-1990
Faculty Senate, 1986-1989
Research Committee for the Graduate Council, 1987-1993
Internal Review Panel for Image Enhancement College of Agriculture and Life
Sciences, 1988
Bio-Medical Awards Committee, 1988-1994
Molecular and Cell Biology Program, Executive Committee, 1988-1991
Animal Care and Use Committee, 1988-1994
Review of the Environmental Safety Department, 1989-1990
Academic Programs and Advisory Council for the Colleges of Life Science and
Agriculture, 1990-1992
Department of Entomology
Graduate Affairs Committee, 1993-1996
Chair, Teaching Evaluation Committee, 1984-1991
Chair, Building Planning Committee, 1988-1989
Curriculum Review Committee, 1989-1990
Search Committees
Molecular Entomologist, 1988
Urban Entomologist, 1989-1990
Population Geneticist, 1989-1990
Center for Agricultural Biotechnology
Search Committee, Molecular Virologist, 1989-1990

University of California at Davis

Coordinator, Work-in-Progress Discussion Group, UC Davis Center for Vector-Borne
Disease Research, 1997-1998
Chair, Search Committee, Director, Center for Vector-Borne Disease Research, 1997-
1998
Facilities Committee, UC Davis Center for Vector-Borne Disease Research, 1996-2002
Research Policy Committee, College of Agriculture and Environmental Sciences, 1997-
2002
Search Committee, Center for Comparative Medicine, Schools of Medicine and
Veterinary Medicine, 1997
Research Council, School of Veterinary Medicine, 1996-1999
Review Committee, Division of Agriculture and Natural Resources, Mosquito
Research Program, 1997-1998

Chair, Committee on Academic Personnel, 1997
 Program Planning Committee, Center for Vector-Borne Disease Research, 1996-2000
 Search Committee, Molecular Arbovirologist, Center for Vector-Borne Disease Research, 2000-2001
 Search Committee, Director, University-wide Mosquito Research Program, 2000-2001
 Education Policy Committee, Graduate Group in Epidemiology, 2001-2007
 Regional Center for Excellence Proposal Development Group, 2002-2003
 Research Policy Committee, College of Agriculture and Environmental Sciences, 2005-2008
 Graduate Advisor, Graduate Group in Epidemiology, 2007-2010
 All-Campus Planning Committee for the UC School of Global Health, 2008
 Centers of Expertise Subcommittee
 Executive Committee, College of Agriculture and Environmental Sciences, 2008-2011
 Review Committee, Graduate group in Population Biology, 2011
 Department of Entomology and Nematology
 Chair, Search Committee, Entomologist, Kearney Agricultural Center, 1996-1997
 Co-Chair, Search Committee, Director, UC Davis Center for Vector-Borne Disease Research, 1996-1999
 Seminar Committee, Chair 1998-1999, member 1997-2000 & 2011-2012
 Graduate Admissions Committee, 1999-2008, Chair 2006-2008, 2010-2013
 Graduate Group & Membership Committee, 2010-2012
 Department Exam Committee, 1999-2002
 Curriculum Committee, 1999-2002
 Search Committee, Director of the University-wide Mosquito Research Program, 2000-2001
 Faculty Senate Representative, 2005-2007
 Awards Committee, 2007-2009

Society and Organization Memberships:

American Committee on Arthropod-Borne Viruses
 American Committee on Medical Entomology
 American Mosquito Control Association
 American Society of Tropical Medicine and Hygiene
 Entomological Society of America
 Mosquito and Vector Control Association of California
 Phi Kappa Phi
 Society of Sigma Xi
 Society of Vector Ecology

Extension Presentations:

1990 Lyme Disease in Maryland
 - Interstate Pest Control Conference, College Park, MD
 - Pesticide Training Course, Baltimore, MD
 1985 Life Cycle of Mosquitoes and Transmission of Diseases (Dorchester County Board of Education, Cambridge, MD)

- Mosquito Transmitted Diseases in Maryland (Right-of-way Pest Control, Mosquito Pest Control and Aquatic Pest Control Training Conference, College Park, MD)
Experimental Control of Face Flies and Horn Flies on Wye Angus Cattle (Wye Angus Advisor Panel, Wye Institute, MD)
- 1984 Ticks and Their Control (Meeting of Master Gardeners, Gaithersburg, MD)
Ticks and Tick Diseases (Interstate Pest Control Conference, University of Maryland, College Park, MD)
Arthropod Pest Management for Beef Cattle (Beef Management Meeting, Gaithersburg, MD)
Arthropod Pest Control of Horses (Horse Seminar, Cockeysville, MD)
- 1983 Fly Control: Alternatives to Larvacide in Feed (Fall Egg Producers Management Meeting, Westminster, MD)

Extension publications:

- 1985 Lyme Disease in Maryland