

CURRICULUM VITAE

Name: WILLIAM KENNETH REISEN

Current address: Center for Vectorborne Diseases, University of California, Old Davis Road, Davis, CA 95616; Phone: 530-752-0124, email: <arbo123@pacbell.net>

Born: February 11, 1946; Jersey City, New Jersey, U.S.A.

Marital status: Married May 9, 1971 to Norma T. Reyes of Dau, Mabalacat, Republic of the Philippines; Children: Catherine Ann (born Dec 1973), Phillip Bryant (born Jun 1975).

EDUCATIONAL BACKGROUND:

H.S. Diploma, Red Bank High School, Red Bank, New Jersey, 1963.

B.S. of Agriculture, Major; Entomology - Plant Pathology, University of Delaware, Newark, Delaware, 1967.

M.S., Major: Zoology, Supporting field: Experimental Statistics, Clemson University, Clemson, South Carolina, 1968; Thesis: "Some ecological relationships of the organic drift in Prater's Creek, Pickens County, South Carolina".

Ph.D., Major: Zoology, Supporting fields: Medical Microbiology and Ecology, University of Oklahoma, Norman, Oklahoma, 1974; Dissertation: "The ecology of larval black flies (Diptera: Simuliidae) in a south central Oklahoma stream".

Areas of academic concentration:

Entomology (27 semester hours), Plant and Animal Ecology (25), Microbiology including Plant Pathology (22), Experimental Statistics including computer science (17), Chemistry (26).

Fellowships, Scholarships and Awards:

Honor societies: Alpha Zeta and Beta Beta Beta, University of Delaware; Gamma Sigma Delta, Clemson University; Phi Sigma and Sigma Xi, University of Oklahoma.

Sigma Xi Student Research Award, 1972

Arthur T. Bragg Award for outstanding research in natural history, University of Oklahoma, 1974.

Lifetime Award for Achievement in Medical Entomology, Society for Vector Ecology, International Congress, 2001.

Fellow, Entomological Society of America, 2003.

Academic Federation Award for Excellence in Research, University of California, Davis, 2004.

John N. Belkin Award for Excellence in Vector Ecology, American Mosquito Control Association, 2006

Distinguished Service Award, Society for Vector Ecology, 2006

Harry Hoogstraal Medal, American Society of Tropical Medicine and Hygiene, 2012

Patronymic species:

Tripteroides reiseni Basio
Pseudovelia reiseni Polhemus
Hydropsyche reiseni Denning

EMPLOYMENT HISTORY:

1967-1968: Research assistant, Clemson University; Duties: Monitoring organochloride insecticide residues in fish and aquatic insects.

1968: Teaching Assistant, Clemson University; Course taught: Animal Ecology; Research: Stream ecology and fish feeding behavior.

1969-1971: Captain, U.S. Air Force; Assignments: Epidemiological Laboratory, Lackland AFB, Texas, and 5th Epidemiological Flight, Manila and 1st Medical Service Wing, Clark AB, Republic of the Philippines; Duties: Vector-borne disease surveillance and control programs on USAF Bases in Pacific Air Command. Temporary duty in Japan, Taiwan, Korea, Okinawa, Thailand, Guam and Hawaii.

1971-1974: Teaching Assistant, University of Oklahoma, Norman. Courses taught: Introductory Zoology, Invertebrate Zoology, Entomology, Ecology, and Parasitology; Research: Simuliid demography, stream ecology, rodent and bat ectoparasites.

1974-1975: Research Associate, University of Maryland School of Medicine, Baltimore; Research: Blood feeding behavior and larval intraspecific competition in *Anopheles stephensi*.

1975-1980: Assistant Professor of International Medicine at the Pakistan Medical Research Centre, University of Maryland School of Medicine, Lahore, Pakistan; Research: Population ecology and bionomics of Pakistan mosquitoes and their relation to pathogen transmission; experimentation towards the application of genetical systems for mosquito control. Administrative duties: Head, Ecology Department consisting of 4-6 technicians and 2-3 MSc Trainees.

1980-1995: Research Entomologist and Director, Arbovirus Field Station, School of Public Health, University of California, Berkeley; Research: Population ecology, bionomics, genetics and vector competence of *Culex tarsalis* in relation to arbovirus ecology and control in California. Administrative duties: Daily operation of the Arbovirus Field Station in Bakersfield and supervision of staff stationed at the Coachella Valley Mosquito and Vector Control District in Thermal ranging from 2-5 laboratory assistants, 1 staff research associate, 1 Assistant Specialist Entomologist, 1 Postdoctorate investigator, and 1 Associate Research Entomologist.

1995-2014: Research Entomologist, Director of the Arbovirus Field Station [1995 – 2013], Director of the Center for Vector-Borne Diseases [Sep 2009 to 2014], and Adjunct Professor [Jan 2005 to 2014], Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis; Research: Population ecology of *Culex tarsalis* and other mosquitoes and their vertebrate hosts in relation to the epidemiology, surveillance and control of arboviruses in California. Administrative duties: operation of the Arbovirus Field Station in Bakersfield, personnel assigned to the Coachella Valley Mosquito and Vector Control District, and the Davis Arbovirus Research Program of the Center for Vectorborne Diseases, consisting of up to 2 Postdoctoral Students, 4 PhD students, 1 Associate Specialist Entomologist, 1 Computer Programmer, 4 Staff Research Associates I - IV, 2 Laboratory Assistants I-IV, and 2 undergraduate student assistants.

2014-present: Professor Emeritus, Center for Vector-Borne Diseases, Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis. Area of interest: epidemiology, surveillance and control of arboviruses in California.

PROFESSIONAL ACTIVITIES.

Professional Society Memberships: American Mosquito Control Association, Mosquito and Vector Control Association of California, Entomological Society of America, Society for Vector Ecology, American Society of Tropical Medicine and Hygiene, Society for Zoonotic Ecology and Epidemiology

Offices held in professional societies:

1988 - present: Co-editor, Subject Editor or Editor-in-Chief, Journal of Medical Entomology, Entomological Society of America.

1989 - 1994: American Committee on Medical Entomology, American Society of Tropical Medicine and Hygiene.

1989 - 1992: Vice President, President-elect and President, Society for Vector Ecology

1990 - 2001: Chairman, Disease Control Subcommittee, California Mosquito and Vector Control Association.

2001- 2007 Chairman, 2008 – present: Member, Vector and Vector-borne Disease Committee, Research Committee, Laboratory Technologies Committee, Mosquito and Vector Control Association of California

1994 - 2010: Member and Chair, Vector Control Advisory Committee, California Department of Health Services.

2000 - 2009: Member, West Nile working group, California Department of Health Services

2001 - 2005: Member, West Nile Task Force, Kern County

1994 - 1998: Member, Exotic Genome Committee, American Mosquito Control Association.

1996 - 1998: Secretary, Chairman elect and Chairman, Section D, Entomological Society of America

1999 - 2004: Chairman, Editorial Board, Journal of the American Mosquito Control Association

1999: Member, Awards Committee, Society for Vector Ecology

2000 - present: Assistant Editor, Vector-borne and Zoonotic Diseases

2001-2002: Chair, Nominations Committee, Society for Vector Ecology

2004: Chair, Publications Council, Entomological Society of America

2004: Member, Nomination committee, Society for Vector Ecology

2005: Member, Reeves' Student award committee, Mosquito and Vector Control Association of California

2008 - 2011: Member and chair, Entomological Society of America Judging Panel on Fellows

2010 -present: Editorial Board, Journal of Science and Climatic Change

CONSULTATIONS:

1983: U.S. National Institutes of Health sponsored visit to Dr. J.C. Beier, Ein Shams University Research and Training Center on Vectors of Disease, Cairo, Egypt. Purpose: Assist in developing research program on anopheline ecology in relation to malaria epidemiology.

1984: U.S. National Research Council (BOSTID) sponsored visit to Dr. F.P. Amerasinghe, Department of Zoology, University of Peradeniya, Peradeniya, Sri Lanka. Purpose: Establish field sampling protocols to study the epidemiology and ecology of arboviral diseases in Sri Lanka.

1986: Vector Biology and Control Project sponsored visit to USAID/Kathmandu and the Nepal Malaria Eradication Organization, Nepal. Purpose: Assist with investigation of malaria outbreak and develop protocols for vector incrimination studies in Kanchanpur District.

1987-1990: Vector Biology and Control Project sponsored technical consultant to the US Agency for International Development and the Nepal Malaria Eradication Organization (3 trips of 3-4 wks duration). Purpose: Conduct malaria vector incrimination and control studies in the Central and Far Western Regions.

1989: Vector Biology and Control Project sponsored visit to the Government of Pakistan's Malaria Control Project, Lahore, Pakistan. Purpose: Conduct training workshop on experimental design and protocol preparation.

1992: Vector Biology and Control Project sponsored visit to the Government of Pakistan's Malaria Control Project. Purpose: Develop research protocols to determine the role of *Anopheles stephensi* in the transmission of rural malaria.

1992: Leader, People to People delegation of Vector Ecologists to the People's Republic of China.

1992: Member of the Parasitic Diseases Panel of the American Institute of Biological Sciences review of the Department of Defense Infectious Disease Research Program, Parasitic Diseases.

1998-99: Consultant to the Tres Rios Wetland development project, City of Phoenix, Arizona.

1998-2004, 2006-2008: Chair, Medical Entomology Panel of the American Institute of Biological Sciences review of the Department of Defense MIDRP proposals "Identification and control of insect vectors of infectious diseases".

2003: Panel Member, Program Review, Arthropod-borne Animal Diseases Research Laboratory, Laramie, Wyoming

2004: Chair, Special emphasis panel PA-03-080: Biodefense and emerging infectious disease research opportunities, Research area: "Discovery of vaccines and vector control products for Biodefense" – teleconference

2005: Entomology review panel for Tropical and Subtropical Agriculture - Caribbean Basin Focus [TSTAR], USDA, Florida.

2006: Reviewer, NIAID NIH Special Emphasis Panel (SEP) ZRG1 IDM-Q (2) – Biology of vectors. Conference call review.

2007: Chair, Review panel: National Programs: Veterinary, Medical and Urban Entomology, ARS, USDA

2009 - present: Member, Core Group, Research and Policy for Infectious Disease Dynamics [RAPIDD], Fogarty Institute, NIH

2009: Reviewer, NIAID, NIH, Panel RFA-AI-09-010 Virology, International Collaborations in Infectious Disease Research. Conference call review.

2009: Participant, White House Briefing on the Public Health Benefits of a clean energy economy, Eisenhower Executive Office Building, Washington, DC

2010: Reviewer, NIAID, NIH, Panel, Vector Biology Study Section, 6 Oct 2010, Bethesda, MD

2011: Reviewer, NIH, Panel, Climate Change and Health: Assessing and modeling population vulnerability to climate change, 1 Mar 2011, Bethesda, MD

2012: Reviewer, NIAID, NIH, Panel, Vector Biology Study Section, 7 Feb 2012, Bethesda, MD

2013: Editor's Workshop, Disease Ecology, Southern Research Institute, Kyiv, Ukraine

2013: Framework for Integrated Vector Control (FIVC) Meeting, La Quinta, Palm Springs, CA

2013: Development of Diagnostic and Tracing technologies used for Livestock Pathogen Protection, Food and Agriculture Organization of the United Nations and the International Atomic Energy Agency, Vienna International Centre, Vienna, Austria.

STUDENTS

Advisor to MSc Trainee Program at the Pakistan Medical Research Center, University of Maryland School of Medicine, Lahore, Pakistan

1975-77: Y. Aslam, T.F. Siddiqui

1976-77: A.Q. Khan

1976-77, 1978-1980: F. Mahmood

1978-79: T. Parveen

1979-80: K. Azra, S. Niaz

External Examiner, Pondicherry University, Vector Control Research Centre, Pondicherry, India

1. 1993: D. Dominic Amalraj, PhD Thesis: Quantification of attributes related to the biological control potential of *Toxorhynchites splendens* (Wiedemann, 1819) (Diptera: Culicidae) against mosquito vectors.
2. 1996: S. Sekhar Sahu, PhD. Thesis: Studies on the susceptibility of nine anopheline species in Jeypore hills of Orissa State (India) to human *Plasmodia*.
3. 1998: C. Sadanadane, PhD Thesis: The biology, ecology and behaviour of *Anopheles jeyporiensis* James, 1902 in the hilly tracts of Koraput District, Orissa

External Examiner, Queensland Institute of Medical Research, Brisbane, Australia

1. 1999: P. Ryan, D.Sc. Thesis: Ecology and control of arbovirus disease in south east Queensland.

External Examiner, The University of Queensland, Brisbane, Australia

1. 2006: Jason Jeffery, PhD. Thesis: Biology and control of *Verrallina funerea* (Diptera: Culicidae)

External Examiner, University of Sydney, Sydney, Australia

1. 2001: C.E. Webb, PhD. Thesis: The ecology of pest and vector mosquitoes (Diptera: Culicidae) associated with the saline wetlands of Homebush Bay, New South Wales, Australia.

External Examiner, Deakin University, Geelong Victoria, Australia

1. 2004: P. Barton, PhD, Thesis: Ecology and control of *Ochlerotatus camptorhynchus* (Thomson) in Victoria.

External Dissertation Committee Member, Tulsa University, Tulsa, Oklahoma

1. 2009: V. O'Brien, PhD dissertation: Enzootic and epizootic vertebrate hosts of Buggy Creek virus, a bird-associated alphavirus (Togaviridae).

University of California, committee member

1999-2003: Frances Edillo, PhD, Department of Biology, U.C.L.A.

2000-2003: Andradi Villalobos, MSc, Department of Entomology, U.C. Davis

2007 -2011: Jacquelyn Wong, PhD, Entomology, Chair, Qualifying Examination Committee, UC Davis; Dissertation Committee

2007: Nicole Mans, PhD Entomology, Chair, Qualifying Examination Committee, UC Davis

2007 - 2009: Anne Pelligrini, MSc, Wildlife & Ecology Unit, Veterinary Genetics Laboratory, Committee member

2007 - : Kelly A. Liebman, PhD Entomology, Qualifying examination committee and Dissertation committee member, UC Davis

2008 - 2011: Payal Maharaj, PhD, Comparative Pathology, Qualifying examination committee and Dissertation committee member, UC Davis

2008 - 2010: Stanley Langevin, PhD, Comparative Pathology, Dissertation committee member, UC Davis

2010 – 2012: Regina Dingler, MS, Comparative Pathology, MSc committee

2011 – 2012: Ethan D. Fechter-Leggett, MPVM, Thesis committee

2012: Jennifer Carlson, PhD Entomology, Qualifying examination committee member and Dissertation Committee Member, UC Davis.

2012 - : Jessica Healy, PhD Epidemiology, Qualifying Examination and Dissertation Committee Member

2012 - : Mary Beth Danforth, PhD Epidemiology, Qualifying Examination and Dissertation Committee Member

University of California, Davis, Major Professor

2004 - 07. Carrie Nielsen, PhD, Graduate Group in Epidemiology

2003 - 08. Christopher Barker, PhD, Graduate Group in Entomology

2006 - 10. Jennifer Wilson [Kwan], PhD, Graduate Group in Epidemiology

2007 - 11. Tara Thiemann, PhD, Graduate Group in Entomology

2007 - 11. Sarah Wheeler, PhD, Graduate Group in Comparative Pathology

2009 – 12 Brittany Nelms, PhD, Graduate Group in Entomology

2007 – 11. Christy Andrade, PhD, Graduate Group in Microbiology

2012 - Andra Hutton, MS, Graduate Group in Comparative Pathology

2012 - Veronica Armijos, PhD, Graduate Group in Comparative Pathology

Postdoctoral students, Davis, Advisor

1984-85: Mark Eberle, PostDoctoral Scholar, School of Public Health, U.C. Berkeley

2008 - 00: Christopher M. Barker, PostDoctoral Scholar, Center for Vectorborne Diseases, UC Davis.

2010 - 11: Jennifer Kwan, PostDoctoral Scholar, Center for Vectorborne Diseases, UC Davis

2010 - 13: Gabriella Worwa, PostDoctoral Scholar, Center for Vectorborne Diseases, UC Davis [Sponsored by the Swiss National Science Foundation]

2011 - 12: Tara Thiemann, PostDoctoral Scholar, Center for Vectorborne Diseases, UC Davis

2011 - 13: Sarah Wheeler, PostDoctoral Scholar, Center for Vectorborne Diseases, UC Davis

Lecture repeatedly in the following courses

Arthropod-Borne Zoonotic Diseases: Basic Principles and Methods of study (ESPM 145), UC Berkeley

Medical Entomology (ENT153), UC Davis

Vector-borne and Zoonotic Diseases (PMI214/ENT 214), UC Davis [co-taught fall 2009 -]

Topics in Public Health Seminar (EPP 290), UC Davis

GRANTS SINCE 1993: (University of California, Berkeley* and Davis)

1. TITLE: Impact of temperature on mosquito and arbovirus ecology.
 AGENCY: National Institutes of Health
 AMOUNT: \$887,112
 DATES: 1992-1995
 PI: J.L. Hardy
 STATUS: completed
2. TITLE: Spatial variation in the phenology of mosquito-borne arbovirus activity in Imperial County, California.
 AGENCY: University of California Mosquito Research Program
 AMOUNT: \$35,760
 DATES: 1992-1994
 PI: J.L. Hardy
 STATUS: completed
3. TITLE: Bionomics of *Culex tarsalis* in relation to arbovirus transmission in the Coachella Valley.
 AGENCY: University of California Mosquito Research Program
 AMOUNT: \$19,214.00
 DATES: 1993-1994
 PI: J.L. Hardy
 STATUS: completed
4. TITLE: Impact of mosquito-borne arboviruses on human health in the Coachella Valley.
 AGENCY: University of California Mosquito Research Program
 AMOUNT: \$58,106.00
 DATES: 1993-1995
 PI: J.L. Hardy
 STATUS: completed
5. TITLE: Ecology of mosquitoes and arboviruses at Point Mugu, Ventura County.
 AGENCY: University of California Mosquito Research Program.

- AMOUNT: \$21,044
DATES: 1995-1996
PI: **W.K. Reisen**
STATUS: completed
6. TITLE: Ecology of western equine encephalomyelitis virus at Morro Bay
AGENCY: University of California Mosquito Research Program.
AMOUNT: \$63,662.00
DATES: 1994-1996
PI: J.L. Hardy (1994), **W.K. Reisen** (1995)
STATUS: completed
7. TITLE: Prevalence of arboviral infection in residents of the Imperial and Sacramento Valleys, California.
AGENCY: California Mosquito and Vector Control Association Research Foundation
AMOUNT: \$13,707.00
DATES: 1995
CO-PI: J.L. Hardy and **W.K. Reisen**
STATUS: completed
8. TITLE: Role of vertical transmission in the persistence of western equine encephalomyelitis virus in the Coachella Valley.
AGENCY: University of California Mosquito Research Program.
AMOUNT: \$72,155
DATES: 1995-1997
PI: **W.K. Reisen**
STATUS: completed
9. TITLE: Role of wild birds as maintenance hosts of arboviruses in Coachella Valley, California.
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$107,000.00
DATES: 1995-1997
PI: **W.K. Reisen**
STATUS: completed
10. TITLE: Mosquito control research in Coachella Valley.
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$100,000
DATES: 1995 -1998
PI: **W.K. Reisen**
STATUS: completed
11. TITLE: Evaluation of two enzyme-linked immunoassays to detect antibodies to western equine encephalomyelitis and St. Louis encephalitis viruses in vertebrates.
AGENCY: Mosquito and Vector Control Association of California
AMOUNT: \$7,565
DATES: 1996
PI: **W.K. Reisen**
STATUS: active
12. TITLE: Human protection tests for candidate mosquito repellents.
AGENCY: The Procter and Gamble Company
AMOUNT: \$152,642
DATES: 1995-1996
PI: B.F. Eldridge

STATUS: completed

13. TITLE: Vector competence of *Aedes dorsalis* mosquitoes for western equine encephalomyelitis virus in California.
AGENCY: University of California Mosquito Research Program.
AMOUNT: \$19,188
DATES: 1996-1997
PI: L.D. Kramer
STATUS: completed
14. TITLE: Comparative sensitivity of wild bird seroprevalence, sentinel chicken seroconversions, and virus isolations from mosquitoes in detecting arbovirus activity in the Coachella Valley of California.
AGENCY: University of California Mosquito Research Program
AMOUNT: \$115,757
DATES: 1997-2000
PI: **W.K. Reisen**
STATUS: completed
15. TITLE: Microhabitat variation in the abundance of host-seeking *Culex tarsalis* in the Coachella Valley of California.
AGENCY: University of California Mosquito Research Program
AMOUNT: \$66,040
DATES: 1997-1999
PI: **W.K. Reisen**
STATUS: Completed
16. TITLE: Arbovirus persistence in season wetlands
AGENCY: National Institutes of Health
AMOUNT: \$153,000.00
DATES: 1997-1998
PI: B.F. Eldridge
STATUS: awarded as bridge grant for 1 year, completed
17. TITLE: Arbovirus persistence in season wetlands
AGENCY: National Institutes of Health
AMOUNT: \$1,319,656
DATES: 1999-2003
PI: **W.K. Reisen**
STATUS: Completed
18. TITLE: A plan to develop a model surveillance program for mosquito-borne arboviruses.
AGENCY: Mosquito and Vector Control Association of California members
AMOUNT: \$600,000
DATES: 1997-2001
PI: B.F. Eldridge, **W.K. Reisen**, T.W. Scott
STATUS: Completed
19. TITLE: Studies on the ecology of mosquitoes and arboviruses in Coachella Valley
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$130,000.00
DATES: 1998-2000
PI: **W.K. Reisen**
STATUS: Completed

20. TITLE: Use of satellite-generated meteorological data to predict mosquito-borne encephalitis transmission in North America: preliminary studies.
AGENCY: NASA contract to IFAS – University of Florida
AMOUNT: \$36,000
DATES: 1998-1999
PI: **W.K. Reisen** subcontractor; J.F. Day, University of Florida, PI
STATUS: completed
21. TITLE: Viremia and antibody responses of wild birds to experimental infection with encephalitis viruses.
AGENCY: University of California Mosquito Research Program
AMOUNT: \$79,086
DATES: 1999-2002
PI: **W.K. Reisen**
STATUS: completed
22. TITLE: Host competence factors affect arbovirus transmission
AGENCY: NIH
AMOUNT: \$1,734,661
DATES: 2000-2004
PI: **W.K. Reisen**
STATUS: **completed**
23. TITLE: Detection of cryptic infections of western equine encephalomyelitis and St. Louis encephalitis virus in mosquitoes collected in winter and early spring
AGENCY: University of California Mosquito Research Program
AMOUNT: \$37,731
DATES: 2001-2002
PI: **W.K. Reisen**
STATUS: completed
24. TITLE: Optimizing control of *Culex tarsalis*
AGENCY: University of California Mosquito Research Program
AMOUNT: \$131,217
DATES: 2000-2003
PI: **W.K. Reisen**
STATUS: completed
25. TITLE: Surveillance and control of mosquitoes and arboviruses in Coachella Valley
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$168,000
DATES: 2000-02
PI: **W.K. Reisen**
STATUS: completed
26. TITLE: Use of climate models to forecast the risk of mosquito-borne encephalitis activity in California
AGENCY: Office of Global Programs, National Oceanic and Atmospheric Administration
AMOUNT: \$445,952
DATES: 2000-02
PI: **W.K. Reisen**
STATUS: completed
27. TITLE: Invasion of California by West Nile virus
AGENCY: NIAID NIH
AMOUNT: \$3,077,596

- DATES: 2003-07
PI: **W.K. Reisen**
STATUS: completed
28. TITLE: Use of climate models to forecast the risk of mosquito-borne encephalitis activity in California [competitive renewal]
AGENCY: Office of Global Programs, National Oceanic and Atmospheric Administration
AMOUNT: \$592,012
DATES: 2003-06
PI: **W.K. Reisen**
STATUS: completed
29. TITLE: Control of urban and peri-urban *Culex* mosquitoes
AGENCY: NIH NIAID
AMOUNT: \$3,320,363
DATES: 2003-2006
Co-PI: **W.K. Reisen** [PI Greg Lanzaro]
STATUS: completed
30. TITLE: Factors increasing the transmission efficiency of West Nile virus in California
AGENCY: University of California Mosquito Research Program
AMOUNT: \$121,491
DATES: 2003-2006
PI: **W.K. Reisen**
STATUS: completed
31. TITLE: Surveillance of West Nile virus in California
AGENCY: CDC
AMOUNT: \$161,061
DATES: 2005-2007
PI: **W.K. Reisen**
STATUS: completed
32. TITLE: Surveillance and control of mosquitoes and arboviruses in Coachella Valley
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$242,438
DATES: 2003-06
PI: **W.K. Reisen**
STATUS: completed
33. TITLE: Corvid roosts affect the risk of urban West Nile virus transmission
AGENCY: University of California Mosquito Research Program
AMOUNT: \$43,652
DATES: 2006-07
PI: **W.K. Reisen**
STATUS: completed
34. TITLE: Surveillance and control of mosquitoes and arboviruses in Coachella Valley
AGENCY: Coachella Valley Mosquito and Vector Control District
AMOUNT: \$60,956
DATES: 2006-07
PI: **W.K. Reisen**
STATUS: completed
35. TITLE: Integration of remote sensing into encephalitis virus intervention decision Support Systems

- AGENCY: NASA Decision Support through Earth-Sun Science Research Results,
NH05ZDA001N-DECISION
- AMOUNT: \$999,546.61
DATES: 2007-09
PI: **W.K. Reisen**
STATUS: completed
36. TITLE: Persistence of West Nile virus in California
AGENCY: NIAID, NIH
- AMOUNT: \$2,328,284
DATES: 2009-2014
PI: **W.K. Reisen**
STATUS: yr 5 of 4 [no cost extension]
37. TITLE: Surveillance and control of mosquitoes and arboviruses in Coachella Valley
AGENCY: Coachella Valley Mosquito and Vector Control District Contract
AMOUNT: \$167,460
DATES: 2007-09
PI: **W.K. Reisen**
STATUS: completed
38. TITLE: Surveillance testing of mosquitoes and birds in California
AGENCY: Mosquito and Vector Control Association of California
AMOUNT: \$350,000 per year [varies with submissions]
DATES: 2005-present
PI: **W.K. Reisen**
STATUS: annual, on-going
39. TITLE: Search for new and emerging viruses in California
AGENCY: Mosquito and Vector Control Association of California
AMOUNT: \$40,000
DATES: 2007
PI: **W.K. Reisen**
STATUS: completed
38. TITLE: Blood feeding patterns of *Culex* vectors of West Nile virus in California
AGENCY: Research foundation of the California Mosquito and Vector Control
Association of California
AMOUNT: \$82,931
DATES: 2008-2010
PI: **W.K. Reisen**
STATUS: completed
39. TITLE: Surveillance for West Nile virus in California
AGENCY: Public Health Foundation Enterprises
AMOUNT: \$95,405
DATES: 2008
PI: **WK Reisen**
STATUS: annual, on-going
40. TITLE: Surveillance and research on West Nile virus in Kern County
AGENCY: Kern MVCD
AMOUNT: \$95,103
DATES: 2008-09
PI: **WK Reisen**

STATUS: completed

41. TITLE: Epidemiology of West Nile virus in Los Angeles
AGENCY: Greater Los Angeles County VCD
AMOUNT: \$28,235
DATES: 2008-09
PI: **WK Reisen**
STATUS: completed
43. TITLE: Impact of climate change on mosquito-borne arbovirus transmission
AGENCY: Centers for Disease Control and Prevention
AMOUNT: \$890,150
DATES: 2009-2012
PI: WK Reisen [PI-status transferred to CM Barker]
STATUS: completed
44. TITLE: Risk of introduction and establishment of emerging arboviruses in California
AGENCY: CMVCA Foundation
AMOUNT: \$5,000
DATES: 2010-2011
PI: WK Reisen
STATUS: completed
45. TITLE: Host selection patterns of *Aedes sierrensis* and *Culex stigmatosoma* in Lake County, California.
AGENCY: CMVCA Foundation [Lake County MVCD]
AMOUNT: \$5,600
DATES: 2010 – 2011
PI: WK Reisen
STATUS: completed
46. TITLE: Surveillance and control of arboviruses in Coachella Valley, California
AGENCY: CMVCA Foundation [Coachella Valley MVCD]
AMOUNT: \$298,638
DATES: 2010 – 2013
PI: WK Reisen
STATUS: completed
47. TITLE: “Prevention, Surveillance and Control of Vector-Borne, Zoonotic and Infectious Diseases, with an Emphasis on West Nile virus”
AGENCY: California Department of Public Health
AMOUNT: \$1,514,452
DATES: 2013 – 2015
STATUS: yr 2 of 3
48. TITLE: Integrated population-based surveillance for West Nile virus activity in four California Counties and Surveillance of West Nile in California
AGENCY: CDC, ELC
AMOUNT: \$589,763
DATES: 2010-13
PI: C. Glaser [Reisen co-PI]
STATUS: completed
49. TITLE: Biology of the *Culex pipiens* complex in Sacramento and Yolo Counties
AGENCY: Sacramento-Yolo MVCD through Mosquito Research Foundation
AMOUNT: \$23,833

DATES: 2011-2012
 PI: Reisen
 STATUS: completed

50. TITLE: Risk of introduction and establishment of emerging arboviruses in California
 AGENCY: Mosquito Research Foundation
 AMOUNT: \$48,360
 DATES: 2012-13
 PI: Reisen co-PI
 STATUS: completed
51. TITLE: Impact of temperature on the transmission of West Nile virus by Culex mosquitoes
 AGENCY: Mosquito Research Foundation
 AMOUNT: \$109,552
 DATES: 2013-15
 PI: Reisen co-PI
 STATUS: yr 2 of 2
52. TITLE: Use of sugar feeding to track arboviruses in Coachella Valley, California.
 AGENCY: Coachella Valley Mosquito and Vector Control District
 AMOUNT: \$40,030
 DATES: 2014-16
 PI: Reisen co-PI
 STATUS: yr 1-2
52. TITLE: Impact of heterogeneous climate and landscape in Los Angeles on the biology and vector competence of *Aedes albopitus* and *Aedes aegypti*.
 AGENCY: Mosquito Research Foundation from Southern California Region of the MVCAC
 AMOUNT: \$57,564
 DATES: 2013-2015
 PI: Reisen, WK
 STATUS: yr 2 of 2

*Only Academic Senate members permitted PI status at UC Berkeley. Proposals submitted with WC Reeves or JL Hardy as PI; listing available upon request.

TELEVISION SHOWS.

2006: "Too hot not to handle", HBO documentary on Climate Change

2007: "Mosquitoes and West Nile", UC Davis Frontiers, Show 5.

2012: "Missed opportunities in the fight against West Nile virus", NBCDFWNews
<http://www.nbcdfw.com/investigations/Missed-Opportunities-in-Fight-Against-West-Nile-Virus-168705896.html> and <http://www.nbcdfw.com/investigations/Dallas-Revisits-West-Nile-Virus-Attack-Plan-169256236.html>

RADIO SHOWS:

2012: "West Nile Virus", The California Report. <http://californiareport.org>, Blog at <http://californiareport.org/climatewatch>

ON LINE LECTURE SERIES

2010: "Parasite Transmission by Arthropods", in Edman, J. (ed.), Vector-Borne Diseases: The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at <http://hstalks.com/?t=BL1182672-Reisen>)

INVITED SEMINARS, TRAINING WORKSHOPS, LECTURES

1981: "North American mosquito-borne arboviruses" to Virology course at California State College, Bakersfield, California, USA.

1982: "Current research activities at the Arbovirus Field Station" to Kern County Health Department, Bakersfield, California, USA.

1983: "Anopheline biology in relation to malaria transmission in rural Punjab Province, Pakistan" to Infectious Disease Seminar, School of Public Health, University of California, Los Angeles, California, USA.

1983: "Ecology of anopheline mosquitoes in Punjab Province, Pakistan" to Research and Training Center on Vectors of Diseases, Ein Shams University and U.S. Naval Area Medical Research Unit No. 3, Cairo, Egypt.

1983: "Anopheline biology in relation to malaria transmission in Pakistan" to Department of Entomology, University of California, Davis, California, USA.

1984: "Arbovirus Ecology in Kern County, California" to Florida Medical Entomology Laboratory, Vero Beach, Florida, USA.

1984: "Gaps in our knowledge of anopheline ecology in relation to malaria transmission in Punjab Province" to International Center for Medical Research and Training, Lahore, Pakistan.

1984: "Comparative aspects of the ecology of West Nile virus in Pakistan and western equine encephalomyelitis virus in California, USA" to Department of Zoology, University of Peradeniya, Kandy, Sri Lanka.

1984: "Ecological observations on *Culex tarsalis* in relation to western equine encephalomyelitis virus and control" to Department of Entomology, University of California, Riverside, California, USA.

1985: "Mosquito sampling and the role of secondary vectors in arbovirus transmission in California" to San Joaquin Valley Mosquito Abatement Districts, Visalia, California, USA.

1987: "Mosquito sampling and arbovirus surveillance" to Southern California Mosquito control agencies at Fullerton College, Fullerton, California, USA.

1988: "Mosquito sampling and arbovirus surveillance" to California Mosquito control agencies at Concord, California, USA.

1988: "Assessing the impact of ULV applications on mosquito populations" in Workshop on Mosquito Adulticiding Technology at Stockton Hilton, Stockton, California, USA.

1990: "Outbreak of SLE virus in the San Joaquin Valley" to San Joaquin Valley Mosquito Abatement Districts, Visalia, California, USA.

1991: "Epidemiology, ecology and surveillance of the mosquito-borne encephalidies in California" to staff of Coachella Valley Mosquito Abatement District and Imperial County Health Department.

1993: "Sampling and surveillance for mosquito-borne diseases" at Wetlands Workshop, Davis, California.

1994: "Epidemiology and ecology of western equine encephalitis in California, with emphasis on the 1993 epizootic in the Sacramento Valley" to Southern California Mosquito Control agencies at California Polytechnic University at Pomona, California.

1994: "Mosquito-borne encephalitis viruses" to Southern California Mosquito Control agencies at California Polytechnic University at Pomona, California.

1995: "Ecology of mosquitoes and arboviruses in southeastern California" to Department of Entomology, University of California, Riverside, California.

1995: "Beyond the rainbow: Forecasting mosquitoes and cases; damned if you do, damned if you don't!", to Mosquito and Vector Control Conference at University of California, Riverside, Extension, Riverside, California.

1995: "Arbovirologia" a short course given at the Facultad de Ciencias Biologicas, Universidad Autonoma de Nuevo Leon, Monterey, Mexico, 2-6 October.

1996: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California", to continuing education, San Joaquin Hospital, Bakersfield, California.

1996: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California", to Kern Medical Center residents and faculty, Bakersfield, California.

1996: "New information on the epidemiology of western equine encephalomyelitis" Continuing Education Workshop of the Coastal Region of the Mosquito and Vector Control Association of California, San Mateo, California.

1996: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California" to Continuing Education Workshop, Mosquito and Vector Control Association of California, Modesto, California.

1997: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California" to Southern California Region of Mosquito and Vector Control Association of California, Diamond Bar, California.

1997: "Potential impact of climate change on the ecology of mosquito-borne encephalitis viruses" to Continuing Education Workshop of the Coastal Region of the Mosquito and Vector Control Association of California, Oakland, California.

1997: "Potential impact of climate change on the ecology of mosquito-borne encephalitis viruses" to Continuing Education Workshop of the Northern San Joaquin Region of the Mosquito and Vector Control Association of California, Turlock, California.

1997: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California" to Department of Entomology, Auburn University, Auburn, Alabama

1997: "Epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses in California" to Department of Entomology, Rutgers University, New Brunswick, New Jersey.

1997: "Is WEE still a threat to the public health of California citizens or where are the human cases?" to Continuing Education Workshop of the Sacramento Region of the Mosquito and Vector Control Association of California, Yuba City, California

1998: "Studies on the maintenance and amplification of mosquito-borne encephalitis viruses in California" to Center for Vector-borne Disease Research seminar series, University of California, Davis, California

1999: Climate and Health Diagnostic Workshop, NOAA Office of Global Programs, North Falmouth, Massachusetts

1999: "Potential impact of global warming on the epidemiology of mosquito-borne encephalitis viruses in California" to Environmental Science-Global Climate Change Institute, Fresno, California

1999: "Climate variability and the risk of mosquito-borne encephalitis transmission: preliminary observations in California" to ENSO Retreat, NOAA Office of Global Programs, Norwalk, Virginia

1999: "Health, climate and infectious disease: A global perspective", a colloquium sponsored by the American Academy of Microbiology, Tuscon, Arizona.

1999: "Surveillance for mosquito-borne arboviruses in California" to West Nile Action Workshop, Tarrytown, New York.

2000: "Mosquito-borne viruses in California" to West Nile Virus Workshop, Sacramento, California.

2001: "Ecology of mosquito-borne viruses in the western United States" to Continuing Education Workshop of the Southern Region of the Mosquito and Vector Control Association of California, Indio, California

2002: "Lessons from the past: field studies by the University of Maryland and the University of California, Berkeley" in workshop "The Ecology of Transgenic Mosquitoes", Wageningen, The Netherlands

2002: "Impact of Climate Change on Vector-borne Disease" in Congressional Briefing on "Public Health Impacts of Climate Change", Dirksen Senate Office Building, Washington, DC

2002: "Use of climate models to forecast the risk of mosquito-borne encephalitis activity in California" to Office of Global Programs, NOAA, Silver Spring, MD

2003: "Ecology and epidemiology of endemic and introduced arboviruses in California" to PeriAnesthesia Nurses Association of California, Fresno, CA

2003: "West Nile Virus" to West Chester Kiwanas, Bakersfield, CA

2003: "West Nile Virus surveillance workshop: 2003" to 25, 26 and 27 Mar 2003 to Mosquito and Vector Control Association of California agencies, Rancho Cucamonga, Clovis and Sacramento, CA.

2003: "CDC/NASA Workshop" 21-23 May 03, University of MS Medical Center, Jackson, MS

2003: "West Nile virus in California" 4 Dec 2003, Kern County CAPCA Chapter, winter Continuing Education Meeting, Bakersfield, CA

2004: "Use of climate models to forecast the risk of mosquito-borne encephalitis activity in California" 3 Mar 04, PI-meeting, Office of Global Programs, NOAA, Atlanta, GA

2004: "Host competence affects encephalitis virus transmission dynamics", continuing education lecture to Southern California MVCAC personnel, Indio, California.

2004: "Update on West Nile Virus in California", continuing education lecture to Northern San Joaquin Valley MVCAC personnel, Merced, California.

2004: "West Nile virus: background information", town hall meeting called by California Senator Dean Florez, Bakersfield, CA

2004: "Ecology and control of West Nile virus in California", Disease Ecology Departmental Seminar, Yale University, Hartford, CN

2004: "Lecture#3. Impact of climate and other environmental changes on disease patterns", PHR214/ENT 214 course: Changing patterns of Vectorborne Disease, School of Veterinary Medicine, Davis, CA

2004: "Invasion of California by West Nile Virus", Department of Entomology seminar, University of California, Riverside, CA

2004: "Remembering Bill", William C. Reeves memorial, School of Public Health, University of California, Berkeley, CA

2004: "Mosquito surveillance", West Nile Virus Prevention, Surveillance and Control Workshop, Sacramento, CA

2004: "Invasion of California by West Nile Virus, Seminar, California Animal Health and Food Safety Laboratory, Fresno, CA

2005: "West Nile and St. Louis encephalitis: two viruses in the same niche?", Vector Biology Laboratory Meeting, Davis, CA

2005: "Mosquito surveillance, 2005", 2005 West Nile virus workshop, CDHS, West Sacramento, CA

2006: "West Nile virus: Where we have been and where we are going", Seminar, Department of Entomology, University of California, Davis

2006: "Ecology and epidemiology of western equine encephalomyelitis and St. Louis encephalitis viruses", Arthropod-Borne Zoonotic Diseases: Basic Principles and Methods of study (ESPM 145), Lecture, Department of Entomology, University of California, Berkeley.

2006: "West Nile virus testing: the big picture" and "West Nile virus in 2007 and beyond: tracking virus in time and space", 2005 West Nile virus workshop, CDHS, West Sacramento, CA.

2007: "Update on West Nile virus", Continuing education in Pest Management, 2007, Plumas-Sierra Counties Department of Agriculture, Quincy, CA

2007: "Mosquitoborne viruses of medical and veterinary importance", Lecture Medical and Veterinary Entomology (ESPM 146), University of California, Berkeley

2007: "Climate variation and vectorborne disease", Epidemiology (EPP 290), University of California, Davis.

2007: "Ecology of West Nile virus in California" WHO Collaborating Center for Tropical Diseases Infectious Disease & Immunity Colloquium, University of Texas Medical Branch, Galveston, TX

2007: "Ecology of West Nile virus in California", Graduate Group in Epidemiology Seminar, University of California, Davis.

2007: "Using "Mulla's formula" to estimate control" at Symposium on Vector Biology, Ecology and Control Celebration of Professor Mir Mulla's 50 Years at UC Riverside, University of California, Riverside, CA

2007: "Climate and vectorborne disease", ENT153 Medical Entomology, Lecture, University of California, Davis.

2007: "Epidemiology and control of West Nile virus in California", Division of Vector-Borne Infectious Diseases, CDC, Ft. Collins

2007: "The Use of Satellite-Generated Meteorological Data to Predict Mosquito-Borne Encephalitis Virus Transmission", in Global Climate Change and Extreme Weather Events: Understanding the Potential Contributions to the Emergence, Reemergence and Spread of Infectious Disease, Institute of Medicine meeting, Washington, DC.

2007: "Epidemiology and control of West Nile virus in California", Alameda County Vector Control Services District, Alameda, CA

2008: "Vector ecology and climate" Emerging Barriers to the Management of Vectorborne Infectious Diseases workshop, University of California, Davis, CA.

2008: "The Use of Satellite-Generated Meteorological Data to Predict Mosquito-Borne Encephalitis Virus Transmission", Western Institute for Food Safety and Security (WIFSS), Davis, CA.

2008: "Invasion of California by West Nile virus" to EPP 290 - Topics in Public Health Seminar, University of California, Davis.

2008: "Ecology of West Nile virus in California" at Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD

2009: "Climate variation: Impact on West Nile virus transmission and use in intervention" at Department of Biological Sciences, University of Tulsa, OK

2010: "UC Davis - CA Department of Public Health - Mosquito & Vector Control Assoc of CA.: Partnership in arbovirus surveillance and control" at 2010 Infectious Diseases Branch Annual Meeting, California Department of Public Health, Sacramento, CA

2011: "CalSurv, California Vectorborne Disease Surveillance System", invited presentation at GEIS VectorMap Workshop, Washington, DC

2011: "Role of temperature in the transmission of West Nile virus at temperate latitudes", seminar, Graduate Group in Epidemiology, University of California, Davis, CA

2011: "CalSurv, California Vectorborne Disease Surveillance System" invited presentation, Banbury Center Conference sponsored by Chemical and Biological Defense Directorate of the Defense Threat Reduction Agency, Department of Homeland Security, Long Island, NY

2012: "Bionomics of the *Culex* vectors of Japanese encephalitis virus" A workshop on the Transmission dynamics of Japanese encephalitis virus, Research and Policy for Infectious Disease Dynamics (RAPIDD) Program, Gainesville, Florida

2012: "Impact of anthropogenic change on mosquito-borne arbovirus transmission." IGERT C-CHANGE (Climate Change, Humans, and Nature in the Global Environment), University of Kansas.

2012: "Resolving patterns in the transmission of West Nile virus". Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, California.

2012: "West Nile virus: What happened in 2012?" Coastal Region of the MVCAC: Continuing Education Lecture, San Leandro, California.

2012: "Demography, climate change and the emergence of arboviruses" Topics in Public Health seminar, University of California, Davis, CA

PRESENTATIONS AT PROFESSIONAL MEETINGS:

1976: "Observations on the swarming and mating behavior of *Anopheles culicifacies* in nature" at International Congress of Entomology, XV, Washington, DC, USA.

1978: "Blood feeding behavior of disease carrying mosquitoes" at National Seminar on Communicable Disease, National Health Laboratories, Islamabad, Pakistan.

1981: "*Culex tarsalis* Coq. and *Cx. tritaeniorhynchus* Giles: similarities and differences in bionomics and disease relationships" at 49th Annual Conference of the California Mosquito and Vector Control Association, Redding, California, USA.

1981: "*Culex tarsalis* Coq.: observations on male swarm composition during a sterile male release experiment" at Annual Meeting of the Entomological Society of America, San Diego, California, USA.

1982: "*Culex tarsalis* Coq.: temporal changes in female reproductive status, survivorship and relative abundance" at 38th Meeting of the American Mosquito Control Association, Sacramento, California, USA.

1983: "Attempted insertion of a recessive autosomal gene into a semi-isolated population of *Culex tarsalis* Coq." at 51st Annual Conference of the California Mosquito and Vector Control Association, San Mateo, California, USA.

1983: "Lifetime mating patterns of laboratory-adapted *Culex tarsalis* males" at 51st Annual Conference of the California Mosquito and Vector Control Association, San Mateo, California, USA.

1983: "Arbovirus ecology in Kern County, California" at Society of Vector Ecologists Conference, San Diego, California, USA.

1984: "Male mating competitiveness, the key to unlock problems associated with the genetic control of mosquitoes" at Mosquito Ecology Workshop, Welaka, Florida, USA.

1984: "The impact of low volume aerial applications of propoxur on the relative abundance and age structure of *Culex tarsalis* populations in Kern County, California during

1983" at 52nd Annual Conference of the California Mosquito and Vector Control Association, Long Beach, California, USA.

1984: "Overwintering ecology of *Culex tarsalis* in Kern County, California" at Society of Vector Ecologists Conference, Salt Lake City, Utah, USA.

1985: "Patterns of fructose feeding by *Culex tarsalis*" at 53rd Annual Conference of the California Mosquito and Vector Control Association, Stockton, California, USA.

1986: "Population dynamics of immature *Culex tarsalis*" at 54th Annual Conference of the California Mosquito and Vector Control Association, Redding, California, USA.

1986: "Influence of rearing stress on the size and autogeny status of *Culex tarsalis*" in Symposium entitled "Ecology of Mosquito Body Size" at 42nd Annual Meeting of the American Mosquito Control Association, New Orleans, Louisiana, USA.

1986: "Ecology of mosquito-borne viruses in the western United States" in a symposium entitled "Ecology and Control of arthropod-borne diseases: an entomological perspective" at the Annual Meeting of the Pacific Branch of the Entomological Society of America, San Diego, California.

1986: "Overwintering in North American *Culiseta*" in a Colloquium entitled "Overwintering strategies of mosquitoes of medical importance" at the Society of Vector Ecologists Conference, Riverside, California.

1987: "Ecology of immature *Culex tarsalis* at representative breeding sites in Kern County, California" at 55th Meeting of the California Mosquito and Vector Control Association, Fresno, California.

1987: "Observations on anopheline and malaria ecology in the Far Western Region of Nepal, 1986" at the Annual Meeting of the Society of Vector Ecologists, Monterey, California.

1988: "Mosquito abundance and arbovirus activity along the lower Colorado River during 1986-1987", "Mosquito abundance and virus activity in southern California: summary remarks", and "Mosquito abundance in suburban communities in Orange and Los Angeles Counties, California, 1987" at the 56th Meeting of the California Mosquito and Vector Control Association, San Mateo, California.

1988: "Estimation of vectorial capacity: Introduction" and "Estimation of vectorial capacity: relationship to disease stability" at Annual Conference of the Society for Vector Ecology, Palm Springs, California.

1988: "Mosquito ecology in suburban communities in the greater Los Angeles area of California, USA. 37th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington, DC.

1989: "Mark-release-recapture studies on culicine mosquitoes in southern California during 1988" at 57th Annual Meeting of the California Mosquito and Vector Control Association, Los Angeles, California.

1989: "North American mosquito-borne arboviruses: questions of persistence and amplification" at 21st Annual Conference of the Society for Vector Ecology, Norman, Oklahoma.

1989: "Persistence of mosquito-borne arboviruses in Kern County, California, 1983-1987" at 38th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Honolulu, Hawaii.

1990: "Observations on St. Louis encephalitis virus in Kern County, 1989" and "Mark-release-recapture studies on *Culex* mosquitoes in southern California, 1989" at 58th Annual Meeting of the California Mosquito and Vector Control Association, Reno, Nevada.

1990: "Ecology of mosquitoes and mosquito-borne viruses in southeastern California", 22nd Annual Conference of the Society for Vector Ecology, Mesa, Arizona.

1991: "Effects of climatological change on the population dynamics and vector competence of mosquito vectors in California", at 59th Annual Meeting of the California Mosquito and Vector Control Association, Sacramento, California.

1991: "*Culex* vectors of St. Louis encephalitis virus in the Los Angeles Basin: importance of combining field and laboratory vector competence studies" at 1st International Vector Ecology Conference organized by the Hainan Association for Science and Technology, Haikou, Hainan, Peoples Republic of China.

1992: "Landscape ecology of encephalitis virus transmission in the Coachella Valley: temporal patterns among mosquito abundance and virus infection rates, and seroconversions among sentinel chickens" at 60th Annual Meeting of the California Mosquito and Vector Association, Concord, California.

1992: "Arbovirus surveillance in California: improvements to enhance control decisions" at 73rd Annual Meeting of the Pacific Division of the American Association for the Advancement of Science, University of California, Santa Barbara, California.

1992: "Presidential Address" and "Vector Ecologists in China" at VII European Annual Meeting of the Society for Vector Ecology, Bologna, Italy.

1992: "Presidential address" and "Ecology of St. Louis encephalitis virus in California" at 24th Annual Conference of the Society for Vector Ecology, San Francisco, California.

1993: "Mosquito control in the People's Republic of China", "Evaluation of new methods for sampling sentinel chickens for antibodies to WEE and SLE viruses", and "Bionomics of *Culex tarsalis* in the Coachella and Imperial Valleys" at 61st Annual Meeting of the California Mosquito and Vector Association, Bakersfield, California.

1993: "Sampling and surveillance of mosquitoes and mosquito-borne viruses" at Western Wetlands Conference, University of California, Davis, California.

1993: "Mosquito and mosquito-borne disease surveillance and reporting in California". First International Congress on Vector Ecology, San Diego, California.

1994: "Mark-release-recapture studies with *Culex tarsalis* in the Coachella Valley, California" at joint American Mosquito Control Association and California Mosquito and Vector Control Association meeting in San Diego, California.

1994: "Highlights of Medical Entomology" at Entomological Society of America meeting in Dallas, Texas.

1995: "Prevalence of antibody to arboviruses in residents of the Coachella Valley, California" and "Current status of vector-borne diseases in the United States" at California Mosquito and Vector Control Association meeting Sacramento, California.

1995: "Patterns in the epizootic dissemination of western equine and St. Louis encephalitis viruses in the Coachella Valley of California" and "Diapause in *Culex tarsalis* from southeastern California" at American Mosquito Control Association meeting in Portland, Oregon.

1996: "Ecology of mosquitoes and arboviruses at Morro Bay, San Luis Obispo County, California" at Mosquito and Vector Control Association of California meeting Rohnert Park, California.

1996: "Ecology and Control of western equine encephalomyelitis and St. Louis encephalitis", 28th Annual Conference of the Society for Vector Ecology, Berkeley, California

1996: "Role of basic and applied research in mosquito and arbovirus surveillance and control in California, USA", 7th Arbovirus Research in Australia/2nd Mosquito Control Association of Australia Conference, Surfers Paradise, Australia.

1996: "*Aedes* as vectors of arboviruses in California", and "Ethics in Publishing", Annual meeting of the Entomological Society of America, Louisville, Kentucky.

1997: "Time of host-seeking by *Culex tarsalis* in southeastern California", Mosquito and Vector Control Association of California annual meeting, Modesto, California.

1997: "Potential impact of climate change on the ecology of mosquito-borne encephalitis viruses, Second International Congress of Vector Ecology, Orlando, Florida

1997: "Relationships among mosquito dispersion and sampling design in estimating abundance", Annual Meeting of the Entomological Society of America, Nashville, Tennessee

1998: "Comparison of mosquito trapping methods for surveillance", "An improved ELISA for detecting arboviral antibodies in wild birds", and "Detection of enzootic arboviral activity in Kern County", Mosquito and Vector Control Association of California annual meeting, Fish Camp, California.

1998: "A model surveillance system for mosquito-borne arboviruses", International Conference on Emerging Diseases, Atlanta, Georgia

1998: "Mosquito studies in Pakistan, 1975-1980", Informal Conference: Entomology in Foreign Lands, Annual Meeting of the Entomological Society of America, Las Vegas, Nevada

1999: "Detection of enzootic viral activity in mosquitoes" and "Comparison of adult mosquito sampling methods", symposium on Development of a Model Surveillance System for Arboviruses – year 2, Mosquito and Vector Control Association of California annual meeting, Anaheim, California.

1999: "Potential impact of climate change on the epidemiology of mosquito-borne encephalitis viruses in North America", symposium Risks Associated with Climate Change, annual meeting of the American Mosquito Control Association, St. Louis, Missouri.

1999: "Impact of global warming on the transmission of encephalitis viruses in California", Invited presentation, meeting of Southern California Society of Parasitologists, Univ. Calif. Los Angeles, Los Angeles, California.

1999: "Epidemiology of mosquito transmitted diseases", symposium The History and Changing Practices of Mosquito Control in the San Francisco Bay Area, 80th Annu. Mtg. Am. Assoc. for the Advancement of Science, Pacific Division, San Francisco, California

1999: "Potential impact of global warming on the epidemiology of mosquito-borne encephalitis virus in California" invited presentation to Environmental Science – Global Climate Change Institute at Fresno State University, Fresno, California.

1999: "Potential impact of global warming on the epidemiology of mosquito-borne encephalitis virus in California" Invited Paper to Annu. Mtg. of American Society of Parasitologists and Society of Nematology, Monterey, California.

1999: "Use of satellite-generated meteorological data to predict mosquito-borne encephalitis transmission: preliminary studies in Kern County, California" invited paper to International Congress on Ecosystem Health, Davis, California.

1999: "Modes of infection does not alter the response of birds to arbovirus infection" to Annual Meeting of the Entomological Society of America, Atlanta, Georgia.

2000: "Effectiveness of mosquito infection, sentinel seroconversions and wild bird seroprevalence in detecting encephalitis virus activity in California" to Annual Meeting of the American Mosquito Control Association, Atlantic City, New Jersey.

2000: "Incorporating climate predictions in arbovirus surveillance systems" and "Update on mosquito-borne viruses in the western USA" Invited papers to Annual Meeting of the Society for Vector Ecologists, Berkeley, California.

2001: " Comparison of dry ice-baited CDC and NJ light traps for measuring mosquito abundance" and "Role of California birds in the amplification of encephalitis viruses" to Mosquito and Vector Control Association of California annual meeting, Napa, California.

2001: "Epidemiology of West Nile virus in an endemic setting: Changa Manga Forest, Punjab Province, Pakistan, 1978-1979" and " Landscape features affect vector host-seeking behavior: implications for arbovirus transmission and control" to Annual meeting of the American Mosquito Control Association, Dallas, Texas.

2001: "Impact of climate change on mosquito-borne viruses: the long and the short of it" to Thirty-sixth Joint Conference on Parasitic Diseases, US-Japan Cooperative Medical Science Program, NIAID/NIH, Bethesda, Maryland

2001: "Ecology of western equine encephalomyelitis and St. Louis encephalitis viruses in the Sonoran Desert biomes of California" Annual Meeting of the Entomological Society of America, San Diego, California.

2002: "Introduction and Objectives" and "Discussion and Future Directions", Climate Symposium, Mosquito and Vector Control Association of California annual meeting, Yosemite, California

2002: "Role of climate variation in mosquito-borne encephalitis virus ecology", Vector Ecology in Mosquito/Pathogen Monitoring Programs symposium, to 68th Annual meeting of the American Mosquito Control Association, Denver, Colorado

2002: "Factors affecting the outcome of mark-release-recapture experiments", 50th Annual Meeting of the Entomological Society of America, Ft. Lauderdale, Florida

2003: "West Nile virus update" and "Host competence of avian species for encephalitis viruses in California", to 71st Annual Conference of the Mosquito and Vector Control Association of California, Palm Springs, California

2003: "Impacts of West Nile virus on wildlife populations: vector biology" to West Nile virus Wildlife Health Workshop, Smithsonian Institution, Edgewater, Maryland

2003: "Overwintering and vertical transmission" and Discussant Moderator at Fourth National Conference on West Nile virus in the United States, new Orleans, Louisiana.

2003: "Introduction" and "Mosquito surveillance: comparison among trap types, trap deployment patterns, estimation of abundance and relation to population size" and organizer/moderator: Symposium "Interpretation of Encephalitis Virus Surveillance Data" at 69th Annual Meeting of the American Mosquito Control Association, Minneapolis, Minnesota

2003: "Invasion of California by West Nile Virus" at 35th Annual Conference of the Society for Vector Ecology, Coeur d'Alene, Idaho.

2003: "Invasion of California by West Nile Virus" at 59th Annual Meeting of the Entomological Society of Manitoba, Winnepeg, Manitoba, Canada

2003: "Invasion of California by West Nile Virus" at Annual Meeting of the Entomological Society of America, Cincinnati, Ohio

2004: "Strategies for encephalitis intervention" in Symposium: Disease Modelling and Risk Analysis for Vector-borne Disease Interventions at Annual Meeting of the American Mosquito Control Association, Savannah, Georgia

2004: "Application of Integrated Pest Management Principles to mosquito and encephalitis virus abatement: a California perspective" and "Roles of different *Culex* species in the transmission of West Nile virus in Western North America", invited papers given at the Society for Vector Ecology meeting, Boston, MA

2004: "Integrating climate information in a risk assessment framework for mosquito control in California", in Symposium 103. Integrated methods II for Infectious Disease Prediction, Prevention and Preparedness and "William C. Reeves: his life and accomplishments", ACAV meeting, American Society of Tropical Medicine and Hygiene, Miami, FL.

2004: "West Nile virus: from New York to California" in ESA symposium "West Nile virus and the study of emerging diseases", and "Invasion of West Nile virus into California: 2004 update", Entomological Society of American meeting, Salt Lake City, UT.

2005: "A tribute to the life and time of Dr. William C. Reeves"; "Introduction", "Vector and host competence: Importance of virulence in birds for West Nile virus transmission", "Conclusions" in Symposium entitled: "Invasion of California by West Nile virus: year 2", at 73rd Annual Conference of the Mosquito and Vector Control Association of California, Monterey, CA

2005: "Vector competence studies: Implications for interpreting West Nile Virus mosquito surveillance" Session 3: Field Biology/Ecology, 2005 National Conference on West Nile Virus in the United States, Division of Vector-borne Infectious Diseases, CDC, San Jose, CA

2005: "West Nile and St. Louis encephalitis, a tale of two viruses", Symposium: West Nile virus in California: Applied entomology at the tip of the spear", Pacific Branch of the Entomological Society of America, Asilomar, CA

2005: "Invasion of California by West Nile virus", Conference on West Nile virus in North America: five years later, lessons to be learned. Southern California Vector Control Districts, Ontario, CA

2005: "Impact of climate variation on mosquitoes and the pathogens they transmit". In Session VI. Invaders, Pests and other Biotic Impacts. Climate Change Symposium: Challenges and solutions for California Agricultural Landscape. John Muir Foundation. University of California, Davis, California.

2005: "West Nile virus in North America" in Global Extension of the Range of West Nile virus. International Congress of the Society for Vector Ecology. Sparks, Nevada.

2006: "Introduction", "Impact of temperature on transmission", "Field evidence of vertical transmission", "Conclusions" in Symposium entitled Invasion of California by West Nile virus – year 3, "Antigen detection tests: the good, the bad and the ugly" in Symposium entitled: Use of Rapid Antigen Detection tests for Surveillance, at 74th Annual Conference of the Mosquito and Vector Control Association of California, Reno, NV

2006: "Role of *Culex tarsalis* in the transmission of West Nile virus in western North America", Keynote Speaker at 2006 South Dakota West Nile & Mosquito Conference, Pierre, SD

2006: "Role of corvids in epidemic West Nile virus transmission in California" invited presentation, Session 4 Field Biology/Ecology at 2006 National Conference on West Nile virus in the University States, San Francisco, CA.

2006: "Overview of West Nile virus in the United State" in symposium entitled West Nile virus at European meeting of the Society of Vector Ecology, Serres, Greece.

2006: "Role of avian host competence in the epidemiology of west Nile virus in North America", Keynote Speaker at Current Research in Avian Zoonoses, 3rd International Conference on Zoonotic Ecology and Epidemiology, Kalmar, Sweden.

2006: "Effects of climate variation of mosquitoes and arboviruses in California", Invited speaker, 3rd Annual Climate Change Conference, Sacramento, CA.

2006: "Update on West Nile virus", Pest Management Coordinating Conference Sacramento, IPM, University of California, Sacramento, CA.

2007: "Introduction", "Is non-viremic transmission of West Nile virus by *Culex* mosquitoes non-viremic?", "*Ixodes pacificus* is not a competent vector of West Nile virus", "Summary" in a Symposium entitled: West Nile Virus invasion of California, Year 4, at 75th Annual Conference of the Mosquito and Vector Control Association of California, Fresno, CA

2007: "Is non-viremic transmission of West Nile virus by *Culex* mosquitoes non-viremic?" at American Mosquito Control Association annual meeting in Orlando, FL.

2007: "Ecological observations on the West Nile virus outbreak in Davis, California, 2006", Poster at American Society of Tropical Medicine and Hygiene, Philadelphia, PA

2007: "The Use of Satellite-Generated Meteorological Data to Predict Mosquito-Borne Encephalitis Virus Transmission" at Institute of Medicine meeting "Global Climate Change and Extreme Weather Events: Understanding the Potential Contributions to the Emergence, Reemergence and Spread of Infectious Disease", Washington, DC

2008: In symposium: Research on Arboviruses in California - "Introduction", "Variation in the vector competence of California *Culex* for West Nile virus" and "Summary and perspectives" and In symposium: Improving the use of climate variation in Decision Support Systems – "How climate affects mosquito biology and arbovirus transmission"; at 76th Annual Conference of the Mosquito and Vector Control Association of California, Palm Springs, CA.

2008: "Where has all the western equine encephalomyelitis virus gone?", 74th Annual Meeting of the American Mosquito Control Association, Reno, NV

2008: "Using climate change to forecast the risk of arbovirus outbreaks", Invited Plenary Lecture, International Research in Infectious Diseases meeting, Division of Microbiology and Infectious Diseases, NIAID, NIH, Bethesda, MD

2008: "Integration of remote sensing into encephalitis virus intervention decision support systems" Am Soc Trop Med Hyg, New Orleans, LA

2009: "Ecology of West Nile virus in California: lessons learned during the first five years" Plenary Speaker, "West Nile and St. Louis encephalitis viruses in California: a tale of two viruses", at 77th Annual Conference of the Mosquito and Vector Control Association of California, San Francisco, CA.

2009: "West Nile virus ecology in temperate areas", National West Nile virus conference, Savannah, GA.

2009: "West Nile virus in California, USA: introduction, amplification and persistence", 2nd NIAID Research Conference on Emerging Diseases, Sofia, Bulgaria

2009: "Lessons from the past... Importance of male mosquito mating competitiveness in genetic control", in meeting Mosquito Biotechnology and Biology, Duke University, Durham, NC

2010: "What will be the next West Nile virus? Receptivity of California and the United States for Invasive Arboviruses" at 78th Annual Conference of the Mosquito and Vector Control Association of California, Sacramento, CA.

2010: "Integration of Remote Sensing into Encephalitis Virus Intervention Decision Support Systems", NASA Public Health Program Review, San Antonio, TX

2010: "Landscape transformations and infectious disease dynamics: The West Nile Story" at Ecological Society of American Meeting, Pittsburgh, PA

2011: "Role of migratory birds in the maintenance and persistence of arboviruses in California" and "The Spielman legacy: his influence on research on the *Culex pipiens* complex in the USA" at 77th Annual meeting of American Mosquito Control Association, Anaheim, CA

2011: "Antecedent and real-time measures of arbovirus outbreak risk in California" invited talk in Medical, Urban and Veterinary Entomology symposium, 59th Annual Meeting of the Entomological Society of America, Reno, NV

2011: "Role of migratory birds in the maintenance and persistence of arboviruses in California", 79th Annual Conference of the Mosquito and Vector Control Association of California, Indian Wells, CA

2011: "Landscape ecology of *Culex* vectors and arboviruses in the Southwestern United States", invited talk at the 43rd Annual Conference of the Society for Vector Ecology, Flagstaff, AZ

2011: "Arbovirus persistence/recrudescence in vertebrate and vector hosts", invited presentation at the "Re-emerging arthropod-borne viral infections of global health importance" conference organized by Virology Branch at the Division of Microbiology and Infectious Diseases (DMID), NIAID, NIH.

2011: "Emergence of Japanese encephalitis virus serocomplex as a global health problem", invited talk at Global Health Conference, Davis, CA

2011: "Role of temperature in the transmission of West Nile virus at temperate latitudes", Epidemiology Seminar, University of California, Davis, CA

2012: "Thoughts on the future of medical entomology" and "Measuring the impact of vector control on West Nile virus". American Society of Tropical Medicine and Hygiene 61th Annual Meeting, Atlanta, GA

2012: "West Nile virus: invasion and persistence in North America" and "Comparison of *Culex pipiens* and *Cx. tarsalis* as vectors of West Nile virus" Utah Mosquito Abatement Association, Moab, UT.

2013: "Summer in the City", 80th Annual Conference of the Mosquito and Vector Control Association of California, Sacramento, CA

2013: "West Nile virus", American Academy of Microbiology FAQ Colloquium, Denver, CO

2013: "West Nile virus in California: Public health research generated by surveillance" and "Publication", Editor's Workshop, Disease Ecology, Southern Research Institute, Kyiv, Ukraine

2013: "Impact of climate change on the transmission of arboviruses", Plenary Presentation at the Annual Meeting of the American Public Health Laboratory association, Raleigh, NC.

2014: "Host selection patterns of *Culex tarsalis* determine the spatial heterogeneity of West Nile virus enzootic activity in Northern California" 81th Annual Conference of the Mosquito and Vector Control Association of California, San Diego, CA

2014: "Bionomics of the *Culex* vectors of Japanese encephalitis virus", presentation at workshop entitled: Emergence of Japanese Encephalitis in the highlands of Nepal, Nagarkot, Nepal

PUBLICATIONS:

Book Chapters, Training Manuals, Guidelines:

1974:

1. Reisen, W.K. Water resources of Oklahoma, Invertebrates of Guide to Oklahoma. Oklahoma Biological Survey, Univ. Okla., Norman. pgs. 70-79, 94-103, 119-127.

1985:

2. Reisen, W.K. Male mating competitiveness: the key to unlock some of the problems associated with the genetic control of mosquitoes. pp. 345-358. In: Lounibos, L.P., J.R. Rey and J.H. Frank. (eds.). Ecology of Mosquitoes: Proceedings of a Workshop, Florida Medical Entomology Laboratory, Vero Beach, Florida.

1989:

3. Reisen, W.K. and T.P. Monath. "Western equine encephalomyelitis" Vol.5: 89-137. In: Monath, T.P. (ed.). The arboviruses: Epidemiology and ecology. Boca Raton: C.R.C. Press

1990:

4. Reeves, W.C., M.M. Milby and W.K. Reisen. Development of a statewide arbovirus surveillance program and models of vector populations and virus transmission. pp. 431-459. In: W.C. Reeves, Epidemiology and Control of Mosquito-Borne Arboviruses in California, 1943-1987, Calif. Mosq. Vector Contr. Assoc., Sacramento, Calif.

5. Reisen, W.K. and W.C. Reeves. Bionomics and ecology of *Culex tarsalis* and other potential mosquito vector species. pp. 254-329. In: W.C. Reeves, Epidemiology and Control of Mosquito-Borne Arboviruses in California, 1943-1987, Calif. Mosq. Vector Contr. Assoc., Sacramento, Calif.

1991:

6. Reisen, W.K. and A.R. Pfuntner. Importance of mosquitoes. CMVCA training manual. Chapter 5.

1995:

7. Reisen, W.K. Potential impact of global warming on the transmission of mosquito-borne arboviruses. Health and Climate Change. WHO/WMO/UNEP.

8. Reisen, W.K. Chapter I: "Guidelines for Surveillance and Control of Arboviral Encephalitis in California." pp. 1-35 Chapter IV: "Guidelines for Surveillance and Control of Malaria in California" pp. 77-91. In: Reisen, W.K., V.L. Kramer and L.S. Mian [eds]. Interagency Guidelines for the Surveillance and Control of Selected Vector-borne Pathogens in California. Mosq. Vector Control Assoc. California. Elk Grove, Calif.

2001

9. Reisen, W.K. "Western equine encephalomyelitis" in M.W. Service [ed]. The encyclopedia of arthropod-transmitted infections. CAB international, Wallingford, U.K.

2002

10. Reisen, W.K. "Malaria" in R. Carde and V Resh [ed]. Encyclopedia of Insects.

11. Reisen, W.K. "Epidemiology of vector-borne diseases" pp 16-27. In: GR Mullen & L Durden. Medical and Veterinary Entomology. Academic Press.

2003

12. Meyer, R.P. and W.K. Reisen. Integrated Mosquito Surveillance Program Guidelines for California. Mosquito and Vector Control Association of California, Sacramento, Calif.

2006

13. Reisen, W.K. Epidemiology of St. Louis encephalitis virus. Pp. 139 - 184. In: T.J. Chambers and T.P. Monath [eds]. The Flaviviruses: Detection, Diagnosis and Vaccine Development. Advances in Virus Research 61. Academic Press, Elsevier, Boston, USA

2007

14. Reisen, W.K. "Vector transmission of Animal Viruses" and "St. Louis encephalitis virus". In: J. Seadon [ed]. Encyclopedia of Virology, 3rd ed., Elsevier, Oxford, U.K.

15. Reisen, W.K. "Malaria" in R. Carde and V Resh [ed]. Encyclopedia of Insects. [2nd edition]. Elsevier.

2008

16. Reisen, W.K. "Using Mulla's formula" to estimate percent control", Symposium on Vector Biology, Ecology and Control celebration of Professor Mir Mulla's 50 years at UC Riverside, Springer.

17. Reisen, W.K. "Epidemiology of Vectorborne Diseases", In: GR Mullen & L Durden. Medical and Veterinary Entomology. Academic Press. 2nd Edition.

18. Reisen, W.K. and C.M. Barker. "Use of Climate variation in vector-borne disease decision support systems." In: Summary Report of a Workshop on "Global Climate Change and Extreme Weather Events on Infectious Disease", Institute of Medicine Forum on Microbial Threats.

2009

19. Reisen, W.K. "Malaria" in R. Carde and V Resh [ed]. Encyclopedia of Insects. [3rd edition]. Elsevier.

20. Reisen, W.K. "Landscape Epidemiology of Vector-borne Diseases" Annu. Rev. Entomol. 55: 461-483.

21. Weaver, S.C. and W.K. Reisen. "Present and Future Arboviral Threats". *Antiviral Research* 85: 328-345.

2011

22. Lozano-Fuentes, S., C. M. Barker, M. Coleman, M. Coleman, B. B. Park, W. K. Reisen, and L. Eisen. 2011. Emerging information technologies to provide improved decision support for surveillance, prevention, and control of vector-borne diseases, pp. 89-114. In C. Jao (ed.), *Efficient Decision Support Systems - Practice and Challenges in Biomedical Related Domain*. InTech - Open Access Publisher, Rijeka.

2012

23. Brault, AC and WK Reisen. "Environmental perturbations that influence arboviral host range: insights into emergence mechanisms" and Walton, WC and WK Reisen. "Influence of Climate Change on Mosquito Development and Bloodfeeding Patterns." In *Viral Infections and Climate Change*. John Wiley & Sons.

2013

24. Reisen, W.K. Ecology of West Nile virus in North America. *Viruses* 2013: 2079-2105.
25. Reisen, W.K. Medical Entomology – back to the future? *Infection, Genetics and Evolution*, Special Issue on Medical Entomology and Vector Biology

2014

26. Reisen, W.K. *Epidemiology of Vectorborne Diseases*. In *Arthropodborne Diseases*. Springer.
27. Reisen, W.K. *Climate and Vectorborne Disease*. In "Climate Change and Public Health" J. Patz and B. Levy. Ed. Oxford University Press, New York, NY
28. Reisen, W.K. *St. Louis encephalitis*. In *Encyclopedia of Virology*. Elsevier nc. Waltham, MD.

Unrefereed Publications:

1971:

1. Reisen, W.K., J.P. Burns and R.G. Basio. The distribution and abundance of mosquitoes on USAF installations in Asia. 1st Med. Svc. Wing (PACAF). TR-71-2:40 pgs.

1981:

2. Reisen, W.K. *Culex tarsalis* Coq. and *Cx. tritaeniorhynchus* Giles: similarities and differences in bionomics and disease relationships. *Proc. Calif. Mosq. Vector Control Assoc.* 49: 10-14.

1983:

3. Reeves, W.C., W.K. Reisen, M.M. Milby, G. Yoshimura and R.P. Meyer. Studies towards the management of arboviral epidemics. II. Dynamics and age structure of the target population. *Proc. Calif. Mosq. Vector Control Assoc.* 51: 4-6.

4. Yoshimura, G., W.K. Reisen, M.M. Milby and W.C. Reeves. Studies towards the management of arboviral epidemics. I. Operational aspects and adult susceptibility during 1982. Proc. Calif. Mosq. Vector Control Assoc. 51: 1-3.

1984:

5. Meyer, R.P., W.K. Reisen, M.W. Eberle, M.M. Milby, V.M. Martinez and B.R. Hill. A time segregated device for determining nightly host-seeking patterns of female mosquitoes. Proc. Calif. Mosq. Vector Contr. Assoc. 52: 162-166.

6. Parman, R., W.K. Reisen and M.M. Milby. Pesticide susceptibility of *Culex tarsalis* in Kern County, California, 1983. Proc. Calif. Mosq. Vector Control Assoc. 52: 8-9.

7. Reisen, W.K. Observations on arbovirus ecology in Kern County, California. Bull. Soc. Vector Ecol. 9: 6-16.

8. Reisen, W.K., M.M. Milby, M.W. Eberle and R.P. Meyer. The impact of low volume applications of propoxur on the relative abundance and age structure of *Culex tarsalis* populations in Kern County, California, during 1983. Proc. Calif. Mosq. Vector Control Assoc. 52: 17-20.

1985:

9. Hardy, J.L., S.B. Presser, R.P. Meyer, W.K. Reisen, L.D. Kramer, and A.V. Vorndam. Comparison of the 1984 Los Angeles strain of SLE virus with earlier California strains of SLE virus: mouse virulence, chicken viremogenic, RNA oligonucleotide and vector competence characteristics. Proc. Calif. Mosq. Vector Control Assoc. 54: 10-15.

1986:

10. Hardy, J.L., R.P. Meyer, W.K. Reisen and S.B. Presser. A further evaluation of *Culex* mosquitoes in the greater Los Angeles area for their ability to vector St. Louis encephalitis. Proc. Calif. Mosq. Vector Cont. Assoc. 54:9-10.

11. Meyer, R.P., J.L. Hardy, S.B. Presser and W.K. Reisen. Procedures for evaluating the vector competence of mosquitoes for arboviruses. Proc. Calif. Mosq. Vector Cont. Assoc. 54:11-15.

1987:

12. Reisen, W.K. Overwintering mechanisms of North American *Culiseta*. Bull. Soc. Vector Ecol. 12:568-579.

1988:

13. Hardy, J.L., S.B. Presser and W.K. Reisen. Experimental infection of rock doves with St. Louis encephalitis virus. Proc. Calif. Mosq. Vector Control Assoc. 56:51-53.

14. Meyer, R.P., J.L. Hardy, S.B. Presser and W.K. Reisen. Preliminary evaluation of the vector competence of some southern California mosquitoes to western equine encephalomyelitis (WEE) and St. Louis encephalitis (SLE) viruses. Proc. Calif. Mosq. Vector Control Assoc. 56:42-48.

15. Pfuntner, A.R., W.K. Reisen and M.S. Dhillon. Vertical distribution and response of *Culex* mosquitoes to differing concentrations of carbon dioxide. Proc. Calif. Mosq. Vector Control Assoc. 56:69-74.

16. Reisen, W.K. Mosquito abundance and virus activity in southern California: summary remarks. Proc. Calif. Mosq. Vector Control Assoc. 56:49-50.

17. Reisen, W.K., R.P. Meyer, V.M. Martinez, O. Gonzalez, J.J. Spoehel and J.E. Hazelrigg. Mosquito abundance in suburban communities in Orange and Los Angeles Counties, California, 1987. Proc. Calif. Mosq. Vector Control Assoc. 56:75-85.

18. Reisen, W.K., R.P. Meyer, M.M. Milby, S.L. Durso, W.C. Heath, S.B. Presser, J.L. Hardy and R.W. Emmons. Mosquito abundance and arboviral activity along the lower Colorado River during 1986-1987. Proc. Calif. Mosq. Vector Control Assoc. 56: 13-19.

1989:

19. Milby, M.M. and W.K. Reisen. Estimation of vectorial capacity: vector survivorship. Bull. Soc. Vector Ecol. 14: 47-54.

20. Reisen, W.K. Estimation of vectorial capacity: Introduction. Bull. Soc. Vector Ecol. 14: 39-40.

21. Reisen, W.K. Estimation of vectorial capacity: relationship to disease transmission by malaria and arbovirus vectors. Bull. Soc. Vector Ecol. 14:67-70.

1990:

22. Reisen, W.K. North American mosquito-borne arboviruses: questions of persistence and amplification. Bull. Soc. Vector Ecol. 15: 11-21.

1991:

23. Milby, M.M., W.K. Reisen and R.P. Meyer. Mark-release-recapture studies with *Culex* mosquitoes along the Kern River, 1990. Proc. Calif. Mosq. Vector Control Assoc. 59: 58-61.

24. Reisen, W.K., W.C. Reeves, J.L. Hardy and M.M. Milby. Effects of climatological change on the population dynamics and vector competence of mosquito vectors in California. Proc. Calif. Mosq. Vector Control Assoc. 59: 14.

1992:

26. Lothrop, H., W.K. Reisen, S.B. Presser, M.M. Milby, J.H. Hardy and M.J. Wargo. Landscape ecology of encephalitis virus transmission in the Coachella Valley: Spatial patterns of seroconversions in sentinel chickens. Proc. Calif. Mosq. Vector Control Assoc. 60: 67-70.

26. Reisen, W.K., Jieyan Lin, S.B. Presser, B. Enge and J.L. Hardy. Evaluation of new methods for sampling sentinel chickens for antibodies to WEE and SLE viruses. Proc. Calif. Mosq. Vector Control Assoc. 61: 33-36.

27. Reisen, W.K., H. Lothrop, M.M. Milby, S.B. Presser, J.L. Hardy and M.J. Wargo. Landscape ecology of encephalitis virus transmission in the Coachella Valley: Temporal patterns among mosquito abundance and virus infection rates, and seroconversions in sentinel chickens. Proc. Calif. Mosq. Vector Control Assoc. 60: 71-75.

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28. R.W. Emmons, M.S. Ascher, D.V. Dondero, B. Enge, W.K. Reisen, M.M. Milby, D.A. Eliason, R.A. Murray, J. Lin, F. Ennik, L.T. Hui, J.L. Hardy, S.B. Presser, W.C. Reeves and L. Barrett. Surveillance for arthropod-borne viral activity and disease in California during 1992. Proc. Calif. Mosq. Vector Control Assoc. 61: 3-6.

29. Lothrop, H., W.K. Reisen, S.B. Presser, M.M. Milby, J.L. Hardy, M.J. Wargo and R.W. Emmons. Encephalitis virus activity in the Coachella Valley during 1992. Proc. Calif. Mosq. Vector Control Assoc. 61: 29-32.

30. Reisen, W.K. Ecology and surveillance of mosquito-borne arboviruses in California, USA. Chinese J. Pest Control 9: 11-21.

31. Reisen, W.K. and H. Lothrop. Bionomics of *Culex tarsalis* in the Coachella and Imperial Valleys. Proc. Calif. Mosq. Vector Control Assoc. 61: 37-40.

32. Reisen, W.K., J. Lin, S.B. Presser, B. Enge and J.L. Hardy. Evaluation of new methods for sampling sentinel chickens for antibodies to WEE and SLE viruses. Proc. Calif. Mosq. Vector Control Assoc. 61: 33-61.

33. Reisen, W.K. The western encephalitis mosquito, *Culex tarsalis*. Wing Beats 4: 16.

34. Reisen, W.K. Mosquito control in the People's Republic of China. Proc. Calif. Mosq. Vector Control Assoc. 61: 111.

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36. Lothrop, H.D., W.K. Reisen, S.B. Presser and J.L. Hardy. Temporal and spatial patterns of arbovirus activity in Imperial Valley. Proc. Calif. Mosq. Vector Control Assoc. 62:32-36.

37. Reisen, W.K. and H.D. Lothrop. Mark-release-recapture studies with *Culex tarsalis* in the Coachella Valley, California. Proc. Calif. Mosq. Vector Control Assoc. 62:54-57.

38. Reeves, W.C., J.L. Hardy, W.K. Reisen and M.M. Milby. Potential effect of global warming on mosquito-borne arboviruses. J. Med. Entomol. 31: 323-332.

1995.

39. Lothrop, H.D. and W.K. Reisen. A geographical information system to describe mosquito abundance and arbovirus transmission in the Coachella Valley, California. Proc. Calif. Mosq. Vector Control Assoc. 63: 50-51.

40. Reilly, K.F., M.S. Ascher, D.V. Dondero, B. Enge, F. Ennik, L.T. Hui, R.W. Emmons, W.K. Reisen, D.A. Eliason, L. Mian, J. Lin, R.A. Murray, M.M. Milby, J.L. Hardy, S.B. Presser, R.E. Chiles and W.C. Reeves. 1995. Surveillance for arthropod-borne virus activity and human disease in California, 1994. Proc. Calif. Mosq. Vector Control Assoc. 63: 18-22.

41. Reisen, W.K. Current status of vector-borne diseases in the United States. Proc. Calif. Mosq. Vector Control Assoc. 63:3-11.

42. Reisen, W.K., J.L. Hardy, R.E. Chiles, H.D. Lothrop and S.B. Presser. Prevalence of antibodies against arboviruses in residents of the Coachella Valley, California. Proc. Calif. Mosq. Vector Control Assoc. 63:32-43.

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44. Kramer, V.L., M.S. Ascher, B. Enge, L.T. Hui, S. Ball, F. Ennik, K. Reilly, W.K. Reisen, D.A. Eliason, J. Lin, R.A. Murray, M.M. Milby, J.L. Hardy, S.B. Presser, R.E. Chiles and W.C. Reeves. 1996. Surveillance for arthropod-borne virus activity and human disease in California, 1995. Proc. Calif. Mosq. Vector Control Assoc. 64: 3-7.

45. Lothrop, H.D. and W.K. Reisen. The application of geographical information system technology to document and analyze ecological factors affecting the transmission of western equine encephalomyelitis and St. Louis encephalitis viruses in the Coachella Valley, California. Proc. Mosq. Vector Control Assoc. Calif. 64: 8-14.

46. Reisen, W.K., R.E. Chiles, S.B. Presser, L.D. Kramer and J.L. Hardy. Ecology of mosquitoes and arboviruses at Morro Bay, San Luis Obispo County, California. Proc. Mosq. Vector Control Assoc. Calif. 64: 15.

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59. Reisen, W.K. Enzootic surveillance: ability of grain-baited traps to focus on indicator bird species. Proc. Calif. Mosq. Vector Control Assoc. 68: 24-26.

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