

# CURRICULUM VITAE

## SUSAN B. OPP

Department of Biological Sciences  
Department of Earth and Environmental Sciences  
California State University, East Bay  
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### **EDUCATION**

- 1988 Ph.D. Entomology, University of Massachusetts, Amherst.  
1983 M.S. Entomology, University of California, Riverside.  
1979 B.A. Biology, San Francisco State University (summa cum laude).

### **EMPLOYMENT**

- 1998-2008 Professor of Biological Sciences, California State University, East Bay.  
1997-2008 Coordinator, Environmental Science B.S., California State University, East Bay.  
1994-1998 Associate Professor of Biological Sciences, California State University, East Bay.  
1989-1994 Assistant Professor of Biological Sciences, California State University, East Bay.  
1988-1989 Assistant Professor, College of Basic Studies (interdisciplinary programs), Boston University.

### **TEACHING EXPERIENCE**

- **Biological Sciences** (courses recently taught): Animal Biology, Principles of Ecology, General Entomology, Insect Identification and Systematics, Ecological Methods, Population Ecology, Insects and Humans
- **Environmental Science** (courses recently team-taught with Dr. Michael Lee): California Environmental Problems, Environmental Science Senior Seminar
- **East Bay Science Project** (formerly Bay Area Environmental Science and Teaching Program): K-12 Teacher Professional Development Program classes regarding California Science Content Standards (life and environmental sciences).
- **Lawrence Livermore National Laboratories Teacher Scientist Summer Intern Program:** Environmental Education Initiative (EEI) impacts on K-12 education.

### **PROFESSIONAL PUBLICATIONS**

- Barry, J.D., **Opp, S.B.**, Dragolovich, J. and J.G. Morse. 2007. Effect of adult diet on longevity of sterile Mediterranean fruit flies (Diptera: Tephritidae). *Florida Entomologist* (in press).
- Chen, Y., **Opp, S.**, Berlocher, S., and G. Roderick. 2006. Are bottlenecks associated with colonization? Genetic diversity and diapause variation of native and introduced *Rhagoletis completa* populations. *Oecologia* 149(4): 656-667.
- Olson, W.H., Pickel, C., and **S.B. Opp**. 2005. Improved control of walnut husk fly adopted through meetings, demonstrations, video, printed material and a web-site. *Acta Horticulturae* 672: 297-302.
- Duarte, E.O, Chitambar, J.J., **Opp, S.B.** and E.B. Lyke. 2003. Ecological study of a marine nematode community in southern San Francisco Bay. *Journal of Nematology* 35(3): 334-335. (abstract)
- Opp, S.B.**, Reynolds, K.M., Pickel, C. and W. Olson. 2000. Monitoring guidelines improve control of walnut husk fly in California. pp. 457-465 *In*: K.H. Tan (ed.) *Area-Wide Control of Fruit*

- Flies and Other Insect Pests*. Penerbit Universiti Sains Malaysia, Penang.
- Opp, S.B.** and R.J. Prokopy. 2000. Multiple mating and reproductive success of male and female apple maggot flies, *Rhagoletis pomonella* (Diptera: Tephritidae). *Journal of Insect Behavior* 13: 901-914.
- Feder, J.L., Berlocher, S.H., and **S.B. Opp**. 1998. Sympatric host race formation and speciation in *Rhagoletis* (Diptera: Tephritidae): A tale of two species for Charles D. pp. 408-441 **In**: S. Mopper and S. Strauss (eds). *Genetic Structure in Natural Insect Populations: Effects of Ecology, Life History, and Behavior*. Chapman and Hall, New York.
- Telang, A., Hammond, S.S. and **S.B. Opp**. 1996. Effects of copulation frequency on egg-laying and egg hatch in the walnut husk fly, *Rhagoletis completa* Cresson. *Pan-Pacific Entomologist* 72(4): 235-237.
- Opp, S.B.**, Spisak, S.A., Telang, A., and S.S. Hammond. 1996. Comparative mating systems of two *Rhagoletis* species: the adaptive significance of mate guarding. pp.43-49. **In**: B.A. McPherson and G.J. Steck (eds). *Fruit Fly Pests: A World Assessment of Their Biology and Management*, St. Lucie Press, FL.
- Reynolds, K.A., **Opp, S.B.**, Moen, M., and K. Denham. 1996. Mark-recapture studies of walnut husk flies attracted to food-based lures. pp.141-146. **In**: B.A. McPherson and G.J. Steck (eds). *Fruit Fly Pests: A World Assessment of Their Biology and Management*, St. Lucie Press, FL.
- Feder, J.L., **Opp, S.B.**, Wlazlo, B., Reynolds, K., Go, W. and S. Spisak. 1994. Host fidelity is an effective pre-mating barrier between sympatric races of the apple maggot fly. *Proceedings of the National Academy of Sciences* 91: 7990-7994.
- Teranishi, R., Kint, S., Flath, R.A., Light, D.M., **Opp, S.B.**, Reynolds, K.M. and W. Hamersky. 1993. Protein hydrolysate components attractive to tephritids. pp. 487-493 **In**: *Proceedings of the FAO/IAEA International Symposium on Management of Insect Pests: Nuclear and Related Molecular and Genetic Techniques*. International Atomic Energy Agency, Vienna, Austria.
- Papaj, D.R., Roitberg, B.D., **Opp, S.B.**, Aluja, M., Prokopy, R.J. and T.T.Y. Wong. 1990. Effect of marking pheromone on clutch size in the Mediterranean fruit fly. *Physiological Entomology* 15: 463-469.
- Opp, S.B.**, Ziegner, J., Bui, N. and R.J. Prokopy. 1990. Factors influencing estimates of sperm competition in *Rhagoletis pomonella* (Diptera: Tephritidae). *Annals of the Entomological Society of America* 83: 521-526.
- Papaj, D.R., **Opp, S.B.**, Prokopy, R.J. and T.T.Y. Wong. 1989. Cross-induction of fruit acceptance by medfly: The role of fruit size and chemistry. *Journal of Insect Behavior* 2: 241-254.
- Prokopy, R.J., Cooley, S.S. and **S.B. Opp**. 1989. Prior experience influences fruit residence of male apple maggot flies. *Journal of Insect Behavior* 2: 39-48.
- Opp, S.B.** and R.J. Prokopy. 1987. Seasonal changes in resightings of marked, wild *Rhagoletis pomonella* (Diptera: Tephritidae). *Florida Entomologist* 70: 449-457.
- Prokopy, R.J., Papaj, D.R., **Opp, S.B.** and T.T.Y. Wong. 1987. Intra-tree foraging behavior of *Ceratitidis capitata* flies in relation to host fruit density and quality. *Entomologia Experimentalis et Applicata* 45: 251-258.
- Opp, S.B.** and R.J. Prokopy. 1986. Chapter 1: Approaches and methods for direct behavioral observation and analysis of plant-insect interactions. pp 1-22. **In**: Miller, J.R. and T.A. Miller (eds). *Insect/Plant Interactions*. Springer-Verlag, N.Y.
- Opp, S.B.** and R.J. Prokopy. 1986. Variation in laboratory oviposition of *Rhagoletis pomonella* (Diptera: Tephritidae) in relation to mating status. *Annals Entomological Society of America* 79: 705-710.
- Opp, S.B.** and R.F. Luck. 1986. Effects of host size on selected fitness components of *Aphytis melinus* (DeBach) and *A. lingnanensis* Compere (Hymenoptera: Aphelinidae). *Annals*

*Entomological Society of America* 79: 701-705.

**Opp, S.B.**, Butkewich, S.L. and R.J. Prokopy. 1985. Influence of orchard fungicides on apple maggot fly egg-laying attempts. *Zeitschrift fur Angewandte Entomologie* 99: 248-253.

#### **NON-REFEREED (TECHNICAL) PUBLICATIONS**

**Opp, S.**, J. Zermeño, C. Wilkerson and M. Durbin. 2004. Flight capacity and dispersal of walnut husk flies in laboratory and field studies. pp. 203-207. *In: Walnut Research Reports 2003*, Walnut Marketing Board, Sacramento, CA

Opp, S., J. Heyd, J. McLaughlin and D. Czajaklo. 2004. Development of killing stations for control of walnut husk fly. pp. 209-212. *In: Walnut Research Reports 2003*, Walnut Marketing Board, Sacramento, CA

**Opp, S.**, J. Zermeño, C. Garrick, B. Mooney and C. Wilkerson. 2002. Timing and susceptibility of walnut cultivars to walnut husk fly attack – 3 years of emergence patterns. pp. 379-382. *In: Walnut Research Reports 2001*, Walnut Marketing Board, Sacramento, CA

**Opp, S.** and J. Zermeño. 2001. Timing and susceptibility of walnut cultivars to walnut husk fly attack – episode 2. pp. 293-295. *In: Walnut Research Reports 2000*, Walnut Marketing Board, Sacramento, CA

**Opp, S.B.**, N. Darby, C. Pickel, B. Olson and J. Hasey. 2000. Hooking the walnut husk fly: Which bait works best? *Nut Grower Magazine* 20:5-13.

**Opp, S.**, Darby, N., Pickel, C., and W. Olson. 1999. Comparative attractiveness and efficacy of baits used for control of walnut husk fly. pp. 181-189 *In: Walnut Research Reports 1987*, Walnut Marketing Board, Sacramento, CA

Olson, W., Pickel, C., and **S. Opp**. 1998. Training on the biology, monitoring and control of walnut husk fly. pp. 197-199 *In: Walnut Research Reports 1997*, Walnut Marketing Board, Sacramento, CA

**Opp, S.**, Reynolds, K., Olson, W., Buchner, R., Pickel, C., and W. Reil. 1996. Development of new lures for walnut husk fly based on host plant volatiles pp. 191-194 *In: Walnut Research Reports 1995*, Walnut Marketing Board, Sacramento, CA

**Opp, S.**, Reynolds, K., Moen, M., Teranishi, R. and B. Coates. 1994. Comparison of commercially available walnut husk fly traps and lures. *Nut Grower* 14: 12-16.

**Opp, S.B.**, Butkewich, S.L. and R.J. Prokopy. 1984. Do fungicide residues affect apple maggot fly egg-laying? *Fruit Notes* 49: 15-16.

#### **EXTRAMURAL GRANTS**

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| 2008      | AT&T Competitive Grant Program, “Outdoor InSite Connect Project (OIC)”, co-PI with Dr. Janet Green, CSUEB (pending)                                |
| 2005-2007 | California Olive Committee, “Predicting Climate Induced Olive Fly Death in the Central Valley”, co-PI with Dr. Marshall Johnson, U.C. Riverside    |
| 2003-2005 | California Olive Committee, “Dispersal and Flight Capacity of Olive Fruit Fly in California”, co-PI with Dr. Marshall Johnson, U.C. Riverside      |
| 2001-2003 | CSU-Agricultural Research Initiative, “Improving Sterile Medflies to Protect California Agriculture”, co-PI  |
| 2000-2003 | California Dept. of Food and Agriculture, “Influence of Dietary Microbes on Quality and Performance of Sterile Fruit Flies”, co-PI                 |
| 1999-2001 | USDA National Research Initiative Competitive Grants Program, “Dietary Contributions to Fitness of Males of Two Invasive Tephritid Species”, co-PI |
| 1999-2001 | Citrus Research Board, “Influence of Microorganisms on the Dynamic Nature of Baits for Control of Medfly”, co-PI                                   |

- 1997-1998 Walnut Marketing Board, "Comparative Attractiveness and Efficacy of Baits Used for Control of Walnut Husk Fly"
- 1997-1998 University of California Integrated Pest Management Project, "Optimization of Lures to Predict Egg-laying by Female Walnut Husk Flies"
- 1994-1995 University of California, Statewide IPM Program, "Evaluation of Host Plant Volatiles as Attractants for Walnut Husk Fly", co-PI with Carolyn Pickel, U.C.
- 1996-1997 Smith-Lever IPM Project, "Training on the Biology, Monitoring and Control of Walnut Husk Fly" (through U.C. Davis, Department of Pomology)
- 1995-1997 University of California Integrated Pest Management Project, "Field Test of More Effective Traps for the Walnut Husk Fly", co-PI with Carolyn Pickel, U.C.
- 1994-1996 Walnut Marketing Board, "Development of New Lures for Walnut Husk Fly Based on Host Plant Volatiles", co-PI with Dr. Douglas Light, USDA-ARS
- 1993-1995 University of California, Statewide Integrated Pest Management Program, "Development of More Efficacious and Selective Attractants and Traps for the Walnut Husk Fly"
- 1992-1994 United States Department of Agriculture, National Research Initiative Competitive Grants Program Seed Grant Award, "Development of RAPD Markers to Study the Invasion Biology of Tephritid Flies"

### ***HONORS RECEIVED***

- 2006-2007 Nominee, Outstanding Professor, CSUEB.
- 2001 Alameda County Women's Hall of Fame, Woman of the Year in Science.

### ***ADMINISTRATIVE EXPERIENCE***

#### ***Academic Administration***

- 1997-2008 Coordinator, Environmental Science B.S. Program
- 2007-2008 Vice-Chair, Academic Senate, CSUEB
- 1993-2008 Graduate Coordinator, Department of Biological Sciences (except during sabbatical years 1997-1998 and 2003-2004)
- 2005-2006 Faculty Administrative Fellow, Academic Programs and Graduate Studies (under AVP Carl Bellone) (0.3 time)
- 2002-2008 East Bay Science Project Faculty Advisory Committee
- 2000-2001 Special Assistant, Enrollment Services and Graduate Programs (under AVP Carl Bellone) (0.25 time)

#### ***Professional Administration***

- 2004-2008 Board of Directors, Biological Field Studies Association (non-profit).
- 2004-2007 Co-Chair, Steering Committee, University of California Fruit Fly Working Group (co-Chair with Dr. Marshall Johnson, U.C. Riverside).
- 2004-2006 Olive Liaison Committee, Olive Workgroup, University of California, Division of Agriculture and Natural Resources.
- 2001-2003 Board of Directors, University Union, CSUEB.
- 1999-2005 Steering Committee, Exotic Fruit Fly Symposium (sponsored by the California Citrus Research Board and U.C. Center for Exotic Pest Research).
- 1999-2001 Steering Committee, 32<sup>nd</sup> Annual Walnut Research Conference (sponsored by the Walnut Marketing Board).
- 1998-2002 International Steering Committee, Fruit Flies of Economic Importance (sponsored by the International Atomic Energy Agency).

- 1997 Chair, Special Events, Pacific Branch Entomological Society of America Meeting, San Jose, CA.
- 1993 President, Pacific Coast Entomological Society.
- 1990-1997 Steering Committee, Partnership in Biology Education.
- 1990-2000 Publications Committee, Pacific Coast Entomological Society (Chair 1999-2000).

***PROFESSIONAL ACTIVITIES***

**Short Courses and Training:** 1991 NSF Chautauqua Short Course, “Recombinant Biology”, San Francisco State University; 1996 NSF Undergraduate Faculty Enhancement Course, “Molecular Genetic Analyses Applied to Evolution, Ecology, and Systematic Biology”, San Francisco State University; 1979 Scanning electron microscopy, San Francisco State Univ.

**Sabbatical Leaves:** 1996-1997 “RAPD Markers to Study the Invasion Biology of Tephritid Flies”; 2003-4 “A New Threat to California Agriculture: The Olive Fruit Fly”

**Peer-reviewer:** *Annals of the Entomological Society of America* (journal articles), *Biological Control* (journal articles), *Economic Entomology* (journal articles), *Environmental Entomology* (journal articles), *Journal of Insect Behavior*, United States Department of Agriculture (grant proposals), California Olive Committee (grant proposals), Walnut Marketing Board (grant proposals)

**Memberships:** Entomological Society of America, Ecological Society of America (Education Section), Sigma Xi (Scientific Research Society), American Association for the Advancement of Science, California Faculty Association