

Curriculum Vitae

VINCENT P. JONES

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Educational Background:

- Ph.D. – University of California at Riverside, Entomology (1983)
- M.S. – University of California at Riverside, Entomology (1982)
- B.S. – San Diego State Univ., Biology, w/honors (1978)

Professional Society Memberships:

Entomological Society of America
Gamma Sigma Delta
Sigma Xi

Honors:

- *Integrated Pest Management Team Award 2005* (member), Pacific Branch of Entomological Society of America.
- *Recognition Award for Excellence in Integrated Pest Management 2004*, Entomological Society of America (national award)
- *Excellence in Integrated Pest Management 2004*, Pacific Branch of the Entomological Society of America
- *Distinguished Achievement Award in Integrated Pest Management 1995*, Pacific Branch of Entomological Society of America
- *Alumni Award of Merit 1993*, Gamma Sigma Delta, Univ. California Riverside Chapter
- *Outstanding Teacher 1991*, Gamma Sigma Delta, Univ. Hawaii Chapter

Positions Held:

- Professor of Entomology, Washington State University. 2006– present
- Associate Professor of Entomology, Washington State University 2002 –2006
- Assistant Professor of Entomology, Washington State University, Sept. 2000 – June 2002
- Professor of Entomology, Univ. Hawaii at Manoa 1996-2000

- Associate Professor of Entomology, Univ. Hawaii at Manoa. 1991 –1996
- Assistant Professor of Entomology, Univ. Hawaii at Manoa. 1988 –1991
- Assistant Professor of Biology, Utah State Univ. 1985 –1988
- Post-Doctoral Research Scientist, Univ. California at Riverside. 1983 –1985
- Graduate Research Assistant, Univ. California at Riverside. Jan. 1980 - May 1983

Areas of Research Activity:

Insect population dynamics, orchard IPM, development and implementation of decision support systems, insect behavior, Effect of landscape-level dispersal on IPM and biological control, biological control, effect of introduced pests on ecosystems, mechanisms of mating disruption.

Grant Experience

(Last 5 yr. \$10.4 M, \$17.4 M total)

2012

Jones VP, A Gadino, JF Brunner. Models to assess pesticide impacts on codling moth, obliquebanded leafroller, and *Chrysopa nigricornis*. \$232,690 (2012-2015). Washington Tree Fruit Research Commission

2011

Jones VP, U Chambers. Enhancing BC in apples: how do conventional and organic systems differ? Washington Tree Fruit Research Commission. \$303,858 (2011-2014)

Jones VP, U Chambers, JF Brunner. Enhancing tree fruit IPM decision-making through advances on WSU-DAS and training of growers and pest management advisors. Wash. State Dept. Agric./USDA SCRI block grant. \$214,215 (2011-2014)

Curriculum Vitae

Grant Experience (con't)

2010

Jones VP, SA Steffan. Enhancing biological control in cherries. Washington State Commission on Pesticide Registration. (funded 1 year, \$23,189).

Shearer PW, K. Amarasekare, **VP Jones**, SA Steffan. Improving biological control of insect pests of cherry. Washington Tree Fruit Research Commission. \$79,485. (2010-2011).

Jones VP, U Chambers, GG Grove. Evaluation of environmental data used for IPM models. Washington Tree Fruit Research Commission. \$152,731. (2010-2012).

Park J, **VP Jones**, LA Hull. Digital traps for automated monitoring of insect populations. Washington Tree Fruit Research Commission. \$64,950 (2010).

2008

Jones VP, JF Brunner, DR Horton, TR Unruh, PW Shearer, NJ Mills, EH Beers, K Gallardo, J Goldberger, S Castagnoli. Enhancing biological control to stabilize western orchard IPM systems. USDA-CSREES-SCRI \$2.244M (2008-2013).

Singh, S. et al. Comprehensive automation for specialty crops. USDA-CSREES-SCRI. \$6.01M. (2008-2012).

Jones VP, DR Horton, TR Unruh, G Judd. Defining natural enemy biology and phenology to improve IPM. Wash. Tree Fruit Res. Commission \$392,370 (2008-2010).

Jones VP, DR Horton, TR Unruh. Assessing effects of an alfalfa cover crop on biological control and tree nutrition in organic pear orchards. WSU-CSANR Organic Cropping Research for the Northwest. \$34,178 (2008).

Horton DR, TR Unruh, **VP Jones**. Assessing habitat and dietary switching by predators in a cover crop system. Western Region SARE \$121,092 (2008-2009).

2007

Jones VP, JF Brunner, G Judd. Expanding and stabilizing WSU-Decision Aid System. Wash. Tree Fruit Res. Commission \$160,935

Jones VP, GG Grove, JF Brunner, C. Xiao. Development of information push technologies for WSU-Decision Aid System. Wash. State Commission on Pesticide Registration. \$22,834

Jones VP, JF Brunner. Interaction of dispersal and management of codling moth and obliquebanded

leafroller. Wash. Tree Fruit Res. Commission \$187,966 (2007-2009)

Jones VP, JF Brunner, T Unruh, DR Horton. Improving apple IPM by maximizing opportunities for biological control. Wash. Tree Fruit Res. Commission. \$112,800

Horton DR, T Unruh, **VP Jones**. Quantifying biological control of pear psylla in a cover crop system. Wash. Tree Fruit Res. Commission \$75,000 (2007-2009)

Teaching Experience:

- Measuring Populations in Orchards (Ento 376- WSU, Winter 2001)
- General Entomology & Lab - 4 units (UH, Spring 89, Fall 89-92, 94-98)
- Economic Entomology & Lab - 4 units (UH, Spring 90-91, 1993-2000)
- Directed Readings – 1 unit (UH, Fall 92, Spring 99, Fall 99)
- Graduate Seminar - 1 unit (UH, Spring 1994)
- Theory and Practice of Biological Control - 3 units (USU, Winter 87)
- Publications, Presentations & Grants in the Life Sciences - 3 units (USU, Fall 87, 88)

Professional Articles, refereed (93 Total)

1. **Jones VP***, NG Wiman. Modeling the interaction of physiological time, seasonal weather patterns, and delayed mating on population dynamics of codling moth, *Cydia pomonella* (L.) (Lepidoptera: Tortricidae). *Popul. Ecology (in press)*.
2. NG Wiman, **VP Jones**. Influence of oviposition strategy of *Nemorilla pyste* and *Nilea erecta* (Diptera: Tachinidae) on parasitoid fertility and host mortality. *Biol. Control (in press)*
3. Horton DR, E. Miliczky, **VP Jones**, C Baker, TR Unruh. Diversity and phenology of the generalist predator community in apple orchards of Central Washington State (Insecta, Araneae) *Can. Entomol. (in press)*
4. **Jones VP***, U Chambers. 2011. Evaluating the US national digital forecast database for use as virtual weather stations to drive the WSU-Decision Aid System *Acta Hort. (in press)*
5. Chambers U, B Petit, **VP Jones**. 2011. WSU-DAS – the online pest management support systems for tree fruits in Washington State. *Acta Hort. (in press)*

Refereed Publications (con't)

6. **Jones VP***, TD Melton, CC Baker. 2011. Optimizing immunomarking systems and development of a new marking system based on wheat. *J. Insect Sci.* 11:87. Available online at: insectscience.org/11.87
7. **Jones VP***, SA Steffan, NG Wiman, DR Horton, E Miliczky, QH Zhang, CC Baker. 2011. Evaluation of herbivore-induced plant volatiles for monitoring green lacewings in Washington apple orchards. *Biol. Control.* 56: 98-105.
8. Krupke, CH, **VP Jones**, JF Brunner. 2011. Evaluating aggregation membership and copulatory success in the stinkbug, *Euschistus conspersus*, using field and laboratory experiments. *J. Insect Sci.* 11:2. Available online at: insectscience.org/11.2
9. Singh, S, M Bergerman, J Cannons, B Grocholsky, B Hamner, G Holguin, L Hull, **V Jones**, G Kantor, H Koselka, G Li, J Owen, J Park, W Shi, J Teza. 2010. Comprehensive automation of specialty crops: Year 1 results and lessons learned. *Intel. Serv. Robotics.* 3: 245-262.
10. **Jones VP***, SA Steffan, LA Hull, JF Brunner, DJ Biddinger. 2010. Effects of the loss of organophosphate pesticides in the US: Opportunities and needs to improve IPM programs. *Outlooks in Pest Management (invited paper)* 21:161-166
11. **Jones VP***, JF Brunner, GG Grove, B Petit, GV Tangren, WE Jones. 2010. A web-based decision support system to enhance IPM programs in Washington tree fruit. *Pest Management Sci.* 66:587-595.
12. JR Hagler, **Jones VP**. 2010. A protein-based approach to mark arthropods for mark-capture type research. *Entomol. Exper. Et Applic.* 135-177-192.
13. Grieshop MJ, JF Brunner, **VP Jones**, NM Bello. 2010. Recapture of codling moth males: influence of lure type and pheromone background. *J. Econ. Entomol.* 103: 1242-1249.
14. **Jones VP***, TR Unruh, DR Horton, NJ Mills, JF Brunner, EH Beers, PW Shearer. 2009. Tree fruit IPM programs in the Western United States: the challenge of enhancing biological control through intensive management. *Pest Management Sci. In Focus* article. 65: 1305-1310.
15. Horton, DR, **VP Jones**, TR Unruh. 2009. Use of a new immunomarking method to assess movement by generalist predators between a cover crop and tree canopy in a pear orchard. *Am. Entomol.* 55:49-56.
16. **Jones VP***, M Doerr, JF Brunner. 2008. Is biofix necessary for predicting codling moth emergence in Washington State apple orchards? *J. Econ. Entomol.* 101: 1651-57.
17. **Jones VP***, NG Wiman, JF Brunner. 2008. Comparison of the effect of delayed female mating on reproductive biology of codling moth and obliquebanded leafroller. *Env. Entomol.*, 37: 679-684.
18. **Jones VP***, NG Wiman. 2008. Longevity of adult codling moth and obliquebanded leafroller in Washington apple orchards. *J. Insect Sci.* 8:14 available online: insectscience.org/8.14
19. Krupke, CH, JF Brunner, **VP Jones**. 2008. Factors influencing mate choice in *Euchistus conspersus* Uhler (Heteroptera: Pentatomidae). *Env. Entomol.* 37: 192-197.
20. **Jones VP***, JR Hagler, JF Brunner, CC Baker, TD Wilburn. 2006. An inexpensive immunomarking technique for studying movement patterns of naturally occurring insect populations. *Env. Entomol. Forum* section 35:827-836.
21. Krupke, C. H., **VP Jones**, JF Brunner. 2006. Diel periodicity of *Euschistus conspersus* (Heteroptera: Pentatomidae) aggregation, mating, and feeding. *Ann. Entomol. Soc. Amer.* 99:169-174.
22. Doerr, MD, JF Brunner, **VP Jones**. 2005. Phenology of *Lacanobia subjuncta* (Lepidoptera: Noctuidae) in Washington and Oregon apple orchards. *J. Econ. Entomol.* 98: 2100-2106.
23. **Jones VP***, CC Eastburn, TD Wilburn, JF Brunner. 2005. Instar specific phenology of *Pandemis pyrusana* and *Choristoneura rosaceana* in Washington apple orchards. *J. Econ. Entomol.* 98:862-874
24. **Jones VP***, Doerr MD, Brunner JF, Baker CC, Wilburn TD, Wiman NG. 2005. A synthesis of the temperature dependent development rate for the obliquebanded leafroller, *Choristoneura rosaceana*. *J. Insect Sci.* 5:24, available online: www.insectscience.org/5.24

Refereed Publications (con't)

25. Tomaszewska, E, VR Hebert, JF Brunner, **VP Jones**. 2005. Volatile collection system for evaluating pheromone release from commercial solid matrix dispensers. *J. Ag. Chem. Soc.* 53: 2399-2405
26. Johnson MT, WJ Wolff, PA Follett, and **VP Jones***. 2005. Life history and field ecology of Hawaii's endemic koa bug, *Coleotichus blackburniae* (Heteroptera: Scutelleridae). (*Ann. Entomol. Soc Amer., in press*)
27. MT Johnson, PA Follett, AD Taylor, **VP Jones***. 2005. Non-target impact of biological control and invasive species on the non-target native Hawaiian koa bug. *Oecologia* (Online First, <http://www.springerlink.com/index/10.1007/s00442-004-1754-5> paper version *Oecologia* 142: 529-540)
28. Beers, EH, **VP Jones***. 2004. Fixed precision sampling plans for white apple leafhopper, *Typhlocyba pomaria* McAtee (Homoptera: Cicadellidae) on apple. *J. Econ. Entomol.* 97: 1752-55.
29. Follett, PA, P Anderson-Wong, MT Johnson, **VP Jones***. 2003. Revegetation of fern dieback areas in Hawaiian forests and watersheds. *Pac. Sci.* 57: 347-357.
30. Doerr, MD, JF Brunner, **VP Jones**. 2002. Temperature-dependent development of *Lacanobia subjuncta* (Lepidoptera: Noctuidae). *Environ. Entomol.* 31 (6): 995-999.
31. ***Jones VP**, NN Finson, D Tsuda. 2002. Attraction of *Stoerberhinus testaceus* to oriental fruit moth pheromone. *Proc. Haw. Entomol. Soc. Sci. Notes Section* 35: 129-131.
32. ***Jones VP**, DM Westcott. 2002. The effect of seasonal changes on *Nezara viridula* (L.) (Hemiptera: Pentatomidae) and *Trissolcus basalus* (Hymenoptera: Scelionidae) in Hawaii. *Biol. Control* 23:115-120.
33. ***Jones VP**, DM Westcott, NN Finson, RK Nishimoto. 2001. Community structure and its effect on southern green stinkbug damage to macadamia (*Env. Entomol.* 30: 1028-1035)
34. ***Jones VP**, M Aihara-Sasaki 2001. Demographic analysis of delayed mating in mating disruption: a case study with *Cryptophelbia illepidula* (Butler) (Lepidoptera: Tortricidae). (Forum section, *J. Econ. Entomol.* 94: 785-792)
35. ***Johnson MT**, P Yang, J Huber, **VP Jones**. 2001. Egg parasitoids of *Sophonia rufofascia* (Homoptera: Cicadellidae) in Hawaii Volcanoes National Park. *Biological Control* 22: 9-15
36. Borth, WB, **VP Jones**, DE Ullman, JS Hu. 2001. Effects of synthetic cercropin analogs on *in vitro* growth of *Acholeplasma laidlawii*. *Antimicrobial agents and Chemotherapy* 45:1894-95.
37. ***Jones VP**, P Anderson-Wong, PA Follett, P Yang, JS Hu, D Westcot, DE Ullman. 2000. Feeding damage of the introduced leafhopper, *Sophonia rufofascia* (Homoptera: Cicadellidae), to plants in forests and watersheds of the Hawaiian Islands. *Environ. Entomol.* 29:171-180.
38. Follett PA, C Empey-Campora, **VP Jones**. 2000. Imidachloprid as a protectant from *Sophonia rufofascia* (Homoptera: Cicadellidae) for endangered plants in Hawaii. *Proc. Hawaiian Entomol. Soc.* 34: 199-201.
39. ***Follett PA**, J Duan, RH Messing, **VP Jones**. 2000. Parasitoid drift after biocontrol introductions: Re-examining Pandora's box. *Amer. Entomol.* 46: 82-94
40. ***Yang P**, PA Follett, **VP Jones**, D Foote. 2000. Oviposition behavior and egg parasitoids of *Sophonia rufofascia* (Homoptera: Cicadellidae) in Hawaii Volcanoes National Park. *Proc. Haw. Entomol. Soc.* 34: 135-139.
41. Borth WB, DE Ullman, **VP Jones**, F Zee, JS Hu. 1999. Elimination of phytoplasmas as causal agents of macadamia decline and non-ripening of papaya. *Trop. Agric. (Trinidad)* 76: 36-44.
42. ***Jones VP**, PA Follett, RM Messing, WB Borth, JS Hu, DE Ullman. 1998. Effect of *Sophonia rufofascia* (Homoptera: Cicadellidae) on guava production in Hawaii. *J. Econ. Entomol.* 91: 693-698.
43. ***Shearer PW**, **VP Jones**. 1998. Suitability of selected weeds and ground covers as host plants of *Nezara viridula* (L.) (Hemiptera: Pentatomidae). *Proc. Haw. Entomol. Soc.* 33:75-82.

Referred Publications (con't)

44. ***Jones VP**, CHM Tome, LC Caprio. 1997. Life tables for the koa seedworm (Lepidoptera: Tortricidae) based on degree-day demography. *Environ. Entomol.* 26: 1291-1298.
45. *Varela LG, PW Shearer, **VP Jones**, H Riedl, SC Welter. 1997. Monitoring of insecticide resistance in *Phyllonorycter mespilella* (Lepidoptera: Gracillariidae) in four Western states. *J. Econ. Entomol.* 90: 252-260.
46. *Shearer PW, **VP Jones**. 1996. Diel feeding pattern of southern green stinkbug (Hemiptera: Pentatomidae). *Environ. Entomol.* 25: 599-602.
47. *Shearer PW, **VP Jones**. 1996. Suitability of macadamia nut as a host plant of *Nezara viridula* (Hemiptera: Pentatomidae). *J. Econ. Entomol.* 89: 996-1003.
48. ***Jones VP**. 1995. Sampling plans for *Cryptophlebia* spp. (Lepidoptera: Tortricidae) attacking macadamia nuts and litchi in Hawaii. *J. Econ. Entomol.* 88: 1337-1342.
49. Shearer PW, **VP Jones**, H Riedl. 1995. Diel-periodicity and circadian control of *Cryptophlebia illepidata* (Butler) (Lepidoptera: Tortricidae) oviposition. *Environ. Entomol.* 24: 1229-1333.
50. ***Jones VP**. 1995. Reassessing the role of predators and *Trissolcus basalus* in biological control of Southern green stinkbug in Hawai'i. *Bio. Control* 5: 566-572.
51. ***Jones VP**. 1994. Oviposition patterns of koa seedworm and litchi fruit moth (Lepidoptera: Tortricidae) on macadamia and litchi in Hawaii. *J. Econ. Entomol.* 87:1278-1284.
52. *Shearer PW, LG Varela, H. Riedl, SC Welter, VP Jones. 1994. Topical pheromone trap assay for monitoring insecticide resistance of *Phyllonorycter elmaella* (Lepidoptera: Gracillariidae). *J. Econ. Entomol.* 87: 1441-1449.
53. ***Jones VP**. 1994. Effect of feeding by *Cryptophlebia illepidata* (Butler) and *C. ombrodelta* (Lower) (Lepidoptera: Tortricidae) on macadamia nut abortion. *J. Econ. Entomol.* 87: 781-786.
54. ***Jones VP**, LC Caprio. 1994. Southern green stinkbug feeding on macadamia: the relative importance of damage occurring in the canopy and on the ground. *J. Econ. Entomol.* 87: 431-435.
55. *Delate KM, JW Armstrong, **VP Jones**. 1994. Postharvest control treatments for *Hypothenemus obscurus* (F.) (Coleoptera: Scolytidae) in macadamia nuts. *J. Econ. Entomol.* 87: 120-126.
56. Varela LG, SC Welter, **VP Jones**, JF Brunner, H Riedl. 1993. Monitoring and characterization of insecticide resistance in codling moth (Lepidoptera: Tortricidae) in four Western states. *J. Econ. Entomol.* 86: 1-10.
57. ***Jones VP**, LL Burnham-Larish, LC Caprio. 1992. Effect of harvest interval and cultivar on damage to macadamia nuts caused by *Hypothenemus obscurus* (F.) (Coleoptera: Scolytidae). *J. Econ. Entomol.* 85: 1878-1883.
58. ***Jones VP**, LC Caprio. 1992. Damage estimates and population trends of insects attacking seven macadamia cultivars in Hawaii. *J. Econ. Entomol.* 85: 1884-1890.
59. ***Jones VP**, AH Hara, C Hashimoto, R Rathman, JA McMurtry. 1992. Collections of the two spotted spider mite, *Tetranychus urticae* Koch (Acari: Tetranychidae), in the Hawaiian Islands. *Proc. Haw. Ent. Soc.* 31: 175-176.
60. ***Jones VP**, DG Alston, DW Davis, JF Brunner, ME Shelton. 1991. Phenology of Western cherry fruit fly (Diptera: Tephritidae) in Utah & Washington. *Ann. Ent. Soc. Am.* 84: 488-492
61. Messina FJ, DG Alston, **VP Jones**. 1991. Oviposition by the Western cherry fruit fly (Diptera: Tephritidae) in relation to host development. *J. Kansas Ent. Soc.* 64:197-208.
62. ***Jones VP**. 1991. Binomial sampling plans for tentiform leafminer (Lepidoptera: Gracillariidae) on apple in Utah. *J. Econ. Entomol.* 84: 484-488.
63. Smith SL, **VP Jones**. 1991. Alteration of apple maggot (Diptera: Tephritidae) adult emergence by cold period duration and rain. *Environ. Entomol.* 20: 44-47.
64. ***Jones VP**. 1990. Developing sampling plans for spider mites: those that don't remember the past may have to repeat it. Forum section *J. Econ. Entomol.* 83: 1656-1664.
65. Messina FJ, **VP Jones**. 1990. Relationship between fruit phenology and infestation by the

apple maggot (Diptera: Tephritidae) in Utah. Ann. Entomol. Soc. Amer. 83: 742-752.

Referred Publications (con't)

66. ***Jones VP**. 1990. Does pesticide-induced activity of two-spotted spider mite (Acari: Tetranychidae) really contribute to population increases in orchards? J. Econ. Entomol. 83: 1847-1852.
67. ***Jones VP**. 1990. Sampling and dispersion of the two spotted spider mite (Acari: Tetranychidae) and the western orchard predatory mite (Acari: Phytoseiidae) on tart cherry J. Econ. Entomol. 83: 1376-1380.
68. *Parrella MP, **VP Jones**, MS Malais, KM Heinz. 1989. Advances in sampling in ornamentals. Fla. Entomol. 72: 394-403.
69. ***Jones VP**, DW Davis. 1989. Evaluation of traps for apple maggot (Diptera: Tephritidae) populations associated with cherry and hawthorn in Utah. Environ. Entomol. 18: 521-525.
70. ***Jones VP**, DW Davis, SL Smith and D. Allred. 1989. Phenology of apple maggot associated with cherry and hawthorn in Utah. J. Econ. Entomol. 82: 788-792.
71. ***Jones VP**. 1988. Longevity of apple maggot attractants under laboratory and field conditions. Environ. Entomol. 17: 704-708.
72. Johnson MW, **VP Jones**, NC Toscano. 1987. Diel activity patterns of tobacco budworm, *Heliothis virescens* (F.) and cabbage looper, *Trichoplusia ni* (Hübner) larvae. Environ. Entomol. 16: 25-29.
73. Johnson MW, NC Toscano, **VP Jones**, JB Bailey. 1987. Modified ultrasonic actograph for monitoring activity of lepidopterous larvae. Proc. Hawaiian Ent. Soc. 27: 141-146.
74. *Parrella MP, **VP Jones**. 1987. The development of integrated pest management strategies in floricultural crops. Bull. Ent. Soc. Amer. 33: 28-34.
75. *Parrella MP, **VP Jones**, GD Christe. 1987. Feasibility of parasites for biological control of *Liriomyza trifolii* on commercially grown chrysanthemum. Environ. Entomol. 16: 832-837
76. ***Jones VP**, NC Toscano, MW Johnson, SC Welter, RR Youngman. 1986. Pesticide effects on plant physiology: incorporation into pest management systems. Bull. Ent. Soc. Amer. 32: 103-109.
77. ***Jones VP**, MP Parrella. 1986. Development of sampling strategies for larvae of *Liriomyza trifolii* (Diptera: Agromyzidae) in chrysanthemum. Environ. Entomol. 15: 268-273.
78. ***Jones VP**, MP Parrella. 1986. The movement and dispersal of *Liriomyza trifolii* (Diptera: Agromyzidae) in a chrysanthemum greenhouse. Ann. Appl. Biol. 109: 33-39.
79. *Youngman RR, **VP Jones**, SC Welter, MM Barnes. 1986. Comparison of the feeding damage caused by 4 tetranychid mite species on gas-exchange rates of almond leaves. Environ. Entomol. 15: 190-193.
80. ***Jones VP**, MP Parrella, DR Hodel. 1986. Biological control of leafminers in greenhouse chrysanthemum. Calif. Agric. 40: 10-12.
81. Youngman RR, NC Toscano, **VP Jones**, K Kido, ET Natwick. 1986. Correlations of the seasonal trap counts of *Bemisia tabaci* (Homoptera: Aleyrodidae) in southeastern California. J. Econ. Entomol. 79: 67-70.
82. *Parrella MP, **VP Jones**, RR Youngman, LM LeBeck. 1985. The effect of leaf mining and leaf stippling of *Liriomyza* sp. on photosynthetic rates of chrysanthemum. Ann. Entomol. Soc. Amer. 78: 90-93.
83. *Parrella MP, **VP Jones**. 1985. Yellow traps as monitoring tools for *Liriomyza trifolii* (Diptera: Agromyzidae) in chrysanthemum greenhouses. J. Econ. Entomol. 78: 53-56.
84. ***Jones VP**, MP Parrella. 1984. Intra-tree regression sampling plans for *Panonychus citri* (McGregor) (Acari: Tetranychidae) on lemons in southern California. J. Econ. Entomol. 77: 810-813.
85. ***Jones VP**, MP Parrella. 1984. Presence-absence sampling of citrus red mite on lemons in southern California. Calif. Agric. 38: 30-32.
86. ***Jones VP**, MP Parrella. 1984. Dispersion indices and sequential sampling plans for the citrus red mite, *Panonychus citri* (McGregor) (Acari: Tetranychidae). J. Econ. Entomol. 77: 75-79.
87. ***Jones VP**, MP Parrella. 1984. The sub-lethal effects of selected insecticides on life table parameters of *Panonychus citri* (Acari: Tetranychidae). Can. Entomol. 116: 1033-1040.

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Referred Publications (con't)

88. ***Jones VP**, JG Morse. 1984. A synthesis of temperature-dependent developmental studies done with the citrus red mite, *Panonychus citri* (McGregor) (Acari: Tetranychidae). Fla. Entomol. 67: 214-221.
 89. *Parrella MP, **VP Jones**. 1984. Coping with the "leafminer crisis". Calif. Agric. 38: 17-19.
 90. ***Jones VP**, MP Parrella. 1983. The compatibility of 6 citrus pesticides with *Euseius stipulatus* (Athias-Henroit) (Acari: Phytoseiidae) in Southern California. J. Econ. Entomol. 76: 942-944.
 91. ***Jones VP**, RR Youngman, MP Parrella. 1983. Effect of selected acaricides on photosynthetic rates of orange and lemon leaves. J. Econ. Entomol. 76: 1178-1180.
 92. ***Jones VP**, RD Brown. 1983. Reproductive responses of the broad mite, *Polyphagotarsonemus latus* (Banks) (Acari: Tarsonemidae), to constant temperature-humidity regimes. Ann. Entomol. Soc. Amer. 76: 466-469.
 93. *Brown RD, **VP Jones**. 1983. The broad mite on lemons in southern California. Calif. Agric. 37: 21-22.
- Book Chapters: (12 total)**
1. Hebert VR, E Tomaszewska, JF Brunner, **VP Jones**, MD Doerr. 2006. Evaluating the pheromone release rate characteristics of commercial mating disruption devices. pp. 144-157. In Crop Protection Products for Organic Agriculture. Environmental, Health, and Efficacy Assessment. Felsot, A.S., K. D. Racke (ed.); American Chemical Society Symposium Series 947, Am. Chem. Soc., Washington, DC.
 2. Brunner JF, JE Dunley, EH Beers, **VP Jones**. 2006. Building a multi-tactic biologically intensive pest management system for Washington orchards. pp. 131-143. In Crop Protection Products for Organic Agriculture. Environmental, Health, and Efficacy Assessment. Felsot, A.S., K. D. Racke (ed.); American Chemical Society Symposium Series 947, Washington, DC.
 3. ***Jones VP**. 2002. Tactics. pp. 829-830. In Encyclopedia of Pest Management. D. Pimentel (ed.). Marcel Dekker, Inc. NY, NY. 929 pp.
 4. *Follett PA, M T Johnson, **VP Jones**. 2000. Parasitoid drift in Hawaiian pentatomids. pp. 77-93. In Nontarget effects of biological control. PA Follett and J. Duan (eds.). Kluwer Academic Publ., Boston, MA. 316 pp.
 5. AliNiazee MT, AB Mohammad, **VP Jones**. 1995. Apple maggot, *Rhagoletis pomonella* (Walsh) (Diptera: Tephritidae). pp. 221-223. In Biological control in the western United States. Univ. Calif. Div. Ag. & Nat. Res. Publication 3361.
 6. ***Jones VP**. 1994. Sequential estimation and classification procedures for binomial counts. pp. 175-205. In Handbook of sampling methods for arthropod pests in agriculture. L. Pedigo and G. D. Buntin (eds.) CRC Press, Boca Raton.
 7. Beers EH, LA Hull, **Jones VP**. 1994. Sampling procedures for insects and mites on apples. pp. 383-416. In Handbook of sampling methods for arthropod pests in agriculture. L. Pedigo and G. D. Buntin (eds.) CRC Press, Boca Raton.
 8. ***Jones VP**. 1993. Sampling. pp. 35-38. In Orchard Pest Management. EH Beers, JF Brunner, MJ Willett, GM Warner (eds.) Good Fruit Grower, Yakima, WA. 276 pp.
 9. ***Jones VP**. 1993. Degree-day models. pp. 45-48. In Orchard Pest Management. EH Beers, JF Brunner, MJ Willett, GM Warner (eds.) Good Fruit Grower, Yakima, WA. 276 pp.
 10. ***Jones VP**. 1991. Sampling for IPM. pp. 61-74. In New directions in tree fruit pest management. KM Williams, EH Beers, GG Grove (eds.). Good Fruit Grower, Yakima, WA. 214 pp.
 11. ***Jones VP**. 1991. Use of phenology models for IPM. pp. 51-61 In New directions in tree fruit pest management. KM Williams, EH Beers, GG Grove (eds.). Good Fruit Grower, Yakima, WA. 214 pp.
 12. ***Jones VP**, SL Smith, DW Davis. 1990. Comparison of apple maggot phenology in eastern and western North America. pp. 67-78. In Apple maggot in the Western U.S. RV Dowell, LT Wilson and **VP Jones** (eds.) Univ. Calif. Div. Agric. & Nat. Sci. pub. 3341.
- Books Authored**
1. ***Jones VP**. 2002. Macadamia IPM. Univ. Hawaii at Manoa, College of Tropical Agriculture and Human Resources. Honolulu, HI. ISBN 1-929325-12-6. 98 pp.

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Edited Books

1. Dowell RV, LT Wilson and **VP Jones** (eds.). 1990. Apple maggot in the Western U.S. Univ. Calif. Div. Agric. & Nat. Sci. pub. 3341.

Professional Articles, non-refereed: (44)

1. **Jones VP**, GG Grove, JF Brunner, GV Tangren, WE Jones. 2008. Making the complex simpler: IPM Decision Aid System now and in the future. Proc. Wash. State Hort. Soc. 103: (in press)
2. **Jones VP**, TR Unruh, DR Horton, JF Brunner. 2006. Improving apple IPM by maximizing opportunities for biological control. Good Fruit Grower Dec. 2006 special insert.
3. Jones VP, GG Grove, JF Brunner, GV Tangren, EH Beers, S Bittle, TJ Smith. 2007. Update on the Washington State University decision aid system. Proc. Wash. State Hort Soc. 102: 166-167.
4. **Jones, VP**, GG Grove, JF Brunner, GV Tangren, EH Beers, TJ Smith. 2007. Advances in decision support technology. Proc. Wash. State Hort Soc. 102: 185-187.
5. **Jones, VP**, T Wilburn, CC Baker. 2007. Codling moth movement in mating disruption and non-mating disruption orchards. Proc. Wash. State Hort Soc. 102: 180-184.
6. **Jones, VP**, JF Brunner, CC Eastburn, TD Wilburn. 2005. Pest supermodels – new ways to improve our pest management programs. Proc. Wash. State Hort. Soc. 100: 113-119.
7. **Jones, VP**, CC Eastburn, NG Wiman. 2004. IPM of Leafrollers: It's all in the timing – sampling, phenology, and efficacy of mating disruption. Proc. Wash. State Hort. Soc. 99: 82-87.
8. **Jones, VP**. 2001. Population dynamics of moths under mating disruption. Proc. Wash. State. Hort. Soc. 97:155-159.
9. ***Jones VP**, M Aihara-Sasaki. 2000. Non-pesticidal control of macadamia nut pests. Proc. Hawaii Macadamia Nut Assoc. 40:63-67.
10. ***Jones VP**, M Aihara-Sasaki. 1999. Macadamia insect pests. Proc. Hawaii Macadamia Nut Assoc. 39:23-28.
11. Follet PA, RA Lower, SS Sanxter, **VP Jones**. 1999. Research plan for irradiation of non-fruitfly quarantine pests in Hawaii. In The use of irradiation as a quarantine treatment of food and agricultural commodities. JH Moy and L Wong (eds). Univ. Hawaii at Manoa and Hawaii Dept. Agric. Honolulu, HI. 116 pp.
12. ***Jones VP**, NN Finson, MS Richardson. 1998. Tropical nut borer natural enemies and koa seedworm management update. Proc. Hawaii Macadamia Nut Assoc. 38: 5-9
13. ***Jones VP**, PA Follett. 1997. Insect management for different sized macadamia nut orchards. Proc. Hawaii Macadamia Nut Assoc. 37: 29-35.
14. ***Jones VP**, PA Follett, D Westcot, C Campora. 1996. Developing management alternatives for the tropical nut borer, *Hypothenemus obscurus*. Proc. Hawaii Macadamia Nut Assoc. 36:23-33.
15. ***Jones VP**. 1995. Review of macadamia IPM in Hawaii. Proc. Hawaii Macadamia Nut Assoc. 35: 24-32.
16. ***Jones VP**, PW Shearer. 1994. Advances in the management of koa seedworm and southern green stinkbug on macadamia in Hawaii. Proc. Hawaii Macadamia Nut Assoc. 34:11-18.
17. ***Jones VP**. 1994. Tropical Nut Borer. Hawaii Tree Crops Journal. 3(1): 11-12.
18. ***Jones VP**, PW Shearer. 1994. Advances in the management of koa seedworm on macadamia in Hawaii. Hawaii Tree Crops Journal. 2(3): 9-11.
19. ***Jones VP**, PW Shearer. 1994. Southern Green Stinkbug. Hawaii Tree Crops Journal. 2(4): 9-10.
20. ***Jones VP**, HC Bittenbender. 1993. Summary of insect pest research. Proc. Hawaiian Macadamia Nut Assoc. 33: 26-28.
21. ***Jones VP**, CHM Tome, CJ Robb. 1993. Progress towards pest management in litchi. Proc. Hawaii Tropical Fruit Growers meeting. 2: 23-30.
22. ***Jones VP**, CHM Tome. 1992. Effect of husk feeding by *Cryptophlebia* spp. on macadamia in Hawaii. pp. 41-45. In Proc. 1st International Macadamia meetings (HC Bittenbender, ed).

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Professional Articles, non-refereed (con't):

23. ***Jones VP**, CG Cavaletto, HC Bittenbender. 1992. Evaluation of commercial lots of macadamias. p. 126-127. *In Proc. 1st International Macadamia meetings (HC Bittenbender, ed).*
24. Bittenbender, ed).
25. *Delate K, **VP Jones**, JW Armstrong. 1992. Postharvest control treatments for tropical nut borer, *Hypothenemus obscurus* (F.), in macadamia nuts. pp. 46-53. *In Proc. 1st International Macadamia meetings (HC Bittenbender, ed).*
26. ***Jones VP**, K Delate, CHM Tome. 1992. Macadamia nut IPM: Where did all this damage come from? *Proc. Hawaiian Macadamia Nut Assoc.* 32: 48-56.
27. ***Jones VP**, HC Bittenbender. 1992. Biology of tropical nut borer. *Hawaii Mac Facts.* Vol. 5, no. 2. pp. 4-8.
28. ***Jones VP**, LC Caprio, CHM Tome. 1991. Recent advances in macadamia IPM. *Proc. Hawaiian Macadamia Nut Assoc.* 31: 42-50.
29. Bittenbender HC , **VP Jones**, MA Nagao. 1991. Varieties and breeding macadamia in Hawaii: A review of literature through 1991. *In Symposium Brasileiro Sobre Macaemia. Vitoria da Conquista. Bahia, Brasil.*
30. ***Jones VP**, HC Bittenbender. 1991. Problems on nuts and kernels. *Hawaii Mac Facts.* Vol. 4, no. 3, pg. 4.
31. ***Jones VP**. 1991. Development of *Cryptophlebia* and stinkbug IPM strategies for macadamia nuts (part 1). *Hawaii Mac Facts.* Vol. 4, no. 4. pp. 1-5.
32. ***Jones VP**. 1991. Development of *Cryptophlebia* and stinkbug IPM strategies for macadamia nuts (part 2). *Hawaii Mac Facts.* Vol. 5, no. 1. pp. 4-7.
33. Johnson MW, BE Tabashnik, **VP Jones**. 1991. Presence/absence sampling for greenhouse whitefly on tomatoes. pp. 69-73 *In 1989 ADAP Crop Prot. Conf. Proc.* MW Johnson, DE Ullman, A. Vargo (eds) Univ. Hawaii Res. Ext. Series 134.
34. ***Jones VP**, MW Johnson. Advances in integration of pesticide effects on plant physiology into IPM programs. pp. 97-100. *In 1989 ADAP Crop Prot. Conf. Proc.* MW Johnson, DE Ullman, A. Vargo (eds) Univ. Hawaii Res. Ext. Series 134.
35. ***Jones VP**, LC Caprio. 1990. Developing IPM programs for macadamia nuts. *Proc. Hawaiian Macadamia Nut Assoc.* 30: 24-36.
36. ***Jones VP**. 1988. Controlling codling moth in Utah orchards: The question of resistance. *Utah Science* 48: 169-172.
37. ***Jones VP**. 1987. Management of mites attacking greenhouse ornamentals. pp. 58-63. *In Proc. Third Conf. Pest Management of Insect and Mites on Ornamentals.* AD Ali and J Hall (eds.). Soc. Amer. Florists. Alexandria, VA. 133 pp.
38. ***Jones VP**, LS Osborne. 1987. A costly intruder: The spider mite. *Grower Talks* 51: 44-47.
39. ***Jones VP**. 1987. Codling moth resistance and IPM of apple maggot. pp. 23-38. *In Proc. Utah Hort. Soc. A. Hatch (ed).* 83 pp.
40. ***Jones VP**. 1986. Management of mites on deciduous fruits. pp. 44-46. *In Proc. Utah Hort. Soc. A. Hatch (ed.)* 77 pp.
41. ***Jones VP**. 1986. Trapping insects in orchards. pp. 19-22. *In Proc. Utah Hort. Soc. A. Hatch (ed.)* 77 pp.
42. Davis DW, **VP Jones**. 1986. Understanding the apple maggot. *Utah Sci.* 47: 94-97.
43. ***Jones VP**, KL Robb, MP Parrella. 1985. Mites attacking gerbera and chrysanthemum. pp. 10-18. *In Proc. 1st Conf. on Insect and Mite Management on Ornamentals.* MP Parrella (ed.). Soc. Amer. Florists. Alexandria, VA. 105 pp.
44. Parrella MP, **VP Jones**, GD Christie. 1985. The interaction of parasites and *Liriomyza trifolii* on commercially grown chrysanthemum. pp. 13-18. *In An Informal Conference on Liriomyza leafminers.* J Montz (ed.). USDA, Beltsville, MA. 75 pp.
45. ***Jones VP**, RR Youngman, MP Parrella. 1984. Effects of selected pesticides on the photosynthetic rates of chrysanthemum. pp. 4-9. *In Proc. 4th Ann. Conf. on the leafminer.* SL Poe (ed.). Soc. Amer. Florists. Alexandria, VA. 191 pp.

Newspaper Articles Written:

1. ***Jones VP**, DE Ullman. 1994. Insect invaders attacking Hawaii's plants. Honolulu Advertiser. 8 March 1994. (Special insert on Hawaii's environment).

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2. *DE Ullman, **VP Jones**. 1994. A recent invader: the two-spotted leafhopper. Univ. Hawaii Alumni and Friends. Fall 1994.

Graduate Students:

- Sheri L. Smith. M.S. Graduated Fall 1989, Utah State Univ. (Major Professor), currently entomologist US Forest Service, Susanville, CA.
- Peter Shearer. Ph. D. Graduated Fall 1995, Univ. Hawaii at Manoa (Major Professor), currently Professor, Oregon State Univ. Mid-Columbia Res. & Ext. Center
- Chuck Chilcutt, Ph.D., Graduated Summer 1996, Univ. Hawaii at Manoa, (dissertation committee member). Currently, Research Assoc. Texas A&M Univ., AgroEcosystems Res. Group.
- Mach Fukada, M.S., Graduated Spring 1996, Univ. Hawaii at Manoa. (thesis committee member). Currently, Hawaii Dept. Ag.
- Christian Krupke, Ph.D. Washington State Univ. (Major Professor), currently Assoc. Professor, Purdue Univ.
- Nik Wiman, Ph.D. Graduated Fall 2011, Washington State University, (Major Professor). Currently Post-doctoral Research Scientist, Oregon State University.
- Teah Smith, MS. Washington State University (Major Professor, in progress)

Post-Doctoral Research Associates

- Ute Chambers, currently in Jones lab
- Andrea Bixby-Brosi, currently in Jones lab
- Angela Gadino, currently in Jones lab.
- Shawn Stephan, Entomologist, currently USDA-ARS, Madison, WI.
- Matt Grieshop, currently Assist. Professor of Entomology, Michigan State University.
- Peter A. Follett, currently Entomologist, USDA-ARS Tropical Fruit. Vegetable and Ornamental Lab, Hilo, HI.
- Bastiaan Suverkropp, Wageningen, the Netherlands, current position unknown.
- M. Tracy Johnson, currently Entomologist, US Forest Service, Volcano, HI.
- Pingjun Yang, currently Entomologist, Hawaii Dept. Agric., Kauai, HI.

- Kathleen Delate, currently Assoc. Professor, Iowa State Univ.

Extension Bulletins:

1. **Jones VP**. The red banded thrips. Univ. Hawaii Coop. Extension Leaflet. 2p.
2. **Jones VP**, MT Fukada, DE Ullman, JS Hu, WB Borth. The two spotted leafhopper. Univ. Hawaii. Coop. Extension Leaflet. 2 p.
3. **Jones VP**. 1986-1988. Utah Fruit pest control handbook (insect section). 155 pp.
4. **Jones VP**. 1987. Hawthorn removal for apple maggot control near commercial fruit orchards. USU Entomol. Fact Sheet 5.
5. **Jones VP** & R. Roberts. 1987. Shade tree insects. USU Insect Control Series #4, 49 pp.
6. **Jones VP**. 1987. Use of dormant sprays for insect & mite control on home fruit trees. USU Entomol. Fact. Sheet 5.
7. **Jones VP**. 1987. Western tentiform leafminer on apple in Utah. Entomol. Fact. Sheet 7.
8. **Jones VP**. 1987. Biology and control of codling moth on apple in Utah. USU Ext. bull. 129
9. **Jones VP**. 1986. Spider mites in the home garden. USU Entomol. Newsletter 125.
10. **Jones VP**. 1986. Control of the Pear sawfly. USU Entomol. Newsletter 126.
11. **Jones VP**. 1986. Fall Webworm. USU Entomol. Newsletter 127.
12. **Jones VP**. 1986. The black widow spider. USU Entomol. Newsletter 49.
13. **Jones VP**. 1986. The brown recluse spider. USU Entomol. Newsletter 47.
14. **Jones VP**, JG Morse 1983. Broad mite: a pest of coastal lemons. Univ. Calif. Coop. Ext. Leaflet 21374.

Professional Services (last 5 years only)

- Member, National Academy of Science, BANR report panel (2009)
- USDA-CSREES grant review panel member (2009)
- Contact person for WSU for Murdock Foundation Charitable Trust *Partners in Science* Grants Program (2007–current)
- Co-Organizer Wash. Tree Fruit Res. Commission apple maggot research review (2007)

Curriculum Vitae

Professional Services (last 5 years only)

- External reviewer for USDA-ARS promotion reviews (2007)
- Past President (2007), President (2006), President -Elect (2005) Western Orchard Pest and Disease Management Conference.
- Member, North West Hort Council Science Advisory Committee 2005-2008
- WSU Representative, WSDA Apple Maggot Advisory Committee 2001-2007
- Reviewer - J. Econ. Entomol., Environ. Entomol., Can. Entomol., Crop Protection, Entomologia exp. Applic., Biological Control, BioControl, Oecologia, British Col. Entomological Soc., Biocontrol Sci. Techn., African Entomologist, Florida Entomologist, Biological Invasions, J. Applied Ecology, J. Insect Sci., Pop. Ecology
- Member, WRCC-43 2000- present

Department and University Committees:

(last 5 years only)

- Head, WSU- Tree Fruit Decision Aid System Working Group (2005-current)
- WSU-TFREC Computer Committee member 2001-current
- Search Committee Ag Meteorologist Position 2007-2008
- Science Advisory Panel for WSU-AgWeather Net 2007-current
- Member, Promotion and Tenure Committee, Laura Corley (Entomology) (2002-2008)
- Head, Promotion and Tenure Committee, Jeb Owen (Entomology) (2007-current)
- Head, Promotion Mentoring Committee, Carol Anelli (Entomology) (2008-9)

Professional Presentations (last 4 years only, first author & presenter only):

2011

Jones VP, NJ Mills, DR Horton, SA Steffan, TR Unruh, PW Shearer, A Bixby-Brosi. Using herbivore-induced plant volatiles to enhance biological control in Western Apple, Pear, and Walnut orchards. National ESA Symposium, Reno - *Host Plant Volatiles: Identifying New Approaches for Insect Pest Management*. 13 Nov.

Jones VP. Delivery of science-based information. WA Hort. Assoc. 5 Dec. Wenatchee, WA

Jones VP. Predicting when natural enemies are present and a lot more. WA Hort. Assoc. 6 Dec.,

Wenatchee, WA

Jones VP, U Chambers. Evaluation of environmental data used in IPM models. Wash. Tree Fruit Research Commission Technology Review. Ellensburg, WA. 29 Nov.

Jones VP, J Park. Automated monitoring of insect populations. Wash. Tree Fruit Research Commission Technology Review. Ellensburg, WA. 29 Nov

Development of automated traps for monitoring pests in tree fruits. WSU-Sunrise Annual Field Day, 16 Aug. Wenatchee, WA.

Progress and highlights of the SCRI grant to enhance BC in western orchards. WSU-Sunrise Annual Field Day, 16 Aug. Wenatchee, WA.

SCRI overview and new techniques to monitor natural enemies and the development of natural enemy models. OSU-MCAREC Field Day 20 July, Hood River, OR.

Evaluating the US national digital forecast database for use as virtual weather stations to drive the WSU-Decision Aid System. 9th International Symposium on Modeling in Fruit Research and Orchard Management, 19-23 June, St. Jean-sur-Richelieu, Quebec, Canada

How IPM can help reduce chemical offsite movement. NRCS Conference on role of conservation buffers in protecting natural resources. 19-20 April. Portland, OR. (invited speaker)

Web-based IPM and biological control educational programs. Wash. Tree Fruit Res. Commission Technology Review. 14 April.

Enhancing biocontrol in Western orchards: An overview. UC IPM planning meeting, 15 April. Davis, CA.

WSU-DAS: an overview. UC IPM planning meeting, 15 April. Davis, CA.

Enhancing biocontrol in Western orchards: An overview. Wash. Tree Fruit Res. Commission Pest Management Review. 27 Jan. Yakima, WA. (invited speaker)

Defining natural enemy biology and phenology to improve IPM. Wash. Tree Fruit Res. Commission Pest Management Review. 27 Jan. Yakima, WA.

Enhancing BC in apples: how do conventional and organic IPM systems differ? Wash. Tree Fruit Res.

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Commission Pest Management Review. 27 Jan. Yakima, WA.

2010

Overview and information needed to integrate conservation BC into orchard systems. ESA National meeting, San Diego, CA. 12-15 Dec. (symposium; also organized symposium).

Enhancing Biocontrol in Western orchards: an Overview. Wash. State Horticultural Assoc. 7 Dec. Yakima, WA.

Conservation BC in Western Orchard Crops: A comprehensive approach. WRCC 2185 Annual Meeting, Coeur d' Alene, ID. Oct. 25.

Update on the USDA Specialty Crops Research Initiative project on "Enhancing Biological Control in Western Orchards". WSU-Sunrise Research Orchard Field Day. 29 July.

Enhancing BC in Organic Orchards Using HIPV Lures to Characterize, Monitor and Manipulate Natural Enemies. Symposium presentation, Pacific Branch of the Entomological Society of America's 94th annual meeting, Boise, ID. 11-14 April.

Enhancing Biological Control to Stabilize Western Orchard IPM Systems. Poster. WSU Academic Showcase (poster presentation)

WSU-DAS and virtual weather stations. SAGES Climate Change Meetings, Vancouver, BC. 24 March 24. (invited presentation)

Enhancing biological control in orchard systems: using HIPV's as monitoring tools. 84th Annual Western Orchard Pest and Disease Management Conference. Portland, OR. 13-15 January.

Evaluation of environmental data used for IPM models. Washington Tree Fruit Research Commission meeting. April 8, Ellensburg, WA.

Evaluation of environmental data used for IPM models. Washington Tree Fruit Research Commission meeting. Oct. 28, Prosser, WA

WSU–Decision Aid System: A brief introduction (1 hr). SCRI Planning Grant Meeting, Oct. 7-8, Baltimore, MD. (invited presentation)

Defining NE Biology and Phenology to improve IPM. Washington Tree Fruit Research Commission meeting, Wenatchee, WA. 28 Jan.

Interaction of dispersal and management of CM and OBLR. Washington Tree Fruit Research Commission meeting, Wenatchee, WA. 28 Jan

2009

Update on WSU–Decision aid system and user survey results. Western Orchard Pest and Disease Conference, Portland, OR. 15 January

Defining natural enemy biology and phenology to improve IPM. Wash. Tree Fruit Res. Commission Pest Management Review. Richland, WA. 22 January.

Changes in WSU–Decision Aid System this coming year. Northwest Wholesale Fruit School, Wenatchee, WA 28 January (invited speaker)

WSU-DAS 3.0 – improvements you'll see this year. North-Central WA Fieldman's Assoc. Meeting. 17 Feb., Wenatchee, WA. (invited speaker)

There's a subtle perfection underlying everything we do or Population biology helps make IPM better. WSU-TFREC/USDA seminar series 5 March. Wenatchee, WA.

Using population biology to improve tree fruit IPM. Wenatchee Valley College Seminar. 6 March (invited speaker)

Using pest and natural enemy phenology to enhance biological control in orchards. International IPM Symposium, Portland, OR 24-26 March. (Invited symposium speaker)

Marking insects in orchard systems to evaluate dispersal effects on population dynamics. International IPM Symposium, Portland, OR 24-26 March. (Invited symposium speaker)

Evolution and implementation of decision support systems in perennial crops. Pacific Branch Entomological Society of America, San Diego, CA. 31 April. (Invited symposium speaker)

Tree fruit decision aid system. Wash. State Commission on Pesticide Registration Annual Retreat. Moses Lake, WA 13 May (invited speaker)

Decision support systems for Washington tree fruit. Italian Grower Tour, 29 July, Wenatchee, WA (in Italian)

WSU-Decision Aid System and its future. PNW Engineering Solutions Workshop (invited speaker). Wilsonville, OR. 11 Aug.

Improving biological control of insect pests of cherry. Wash. Tree Fruit Res. Commission Cherry Review. 12 Nov., Yakima, WA

Expanding and stabilizing WSU-DAS. Wash. Tree Fruit Res. Commission Technology Review. 3 Dec. Ellensburg, WA. (invited speaker)

Evaluation of environment data used for IPM models. Wash. Tree Fruit Res. Commission

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Technology Review. 3 Dec. Ellensburg, WA.
(invited speaker)

Enhancing biological control on cherry. Wash.
State Commission on Pesticide Registration. 4
Dec. Ellensburg, WA.

Crop decision support software and education
programs. WA State Horticultural Assoc. Meeting,
Wenatchee, WA, 8 Dec. (invited speaker)

2008

Is the biofix for codling moth PETE model
necessary in Washington? Western Orchard Pest
and Disease Conference, Portland, OR. 10 Jan.

Improving apple IPM by maximizing opportunities
for biological control. Wash. Tree Fruit Res.
Commission Pest Management Review, Pasco,
WA 31 Jan. (invited presentation)

Defining natural enemy biology and phenology to
improve IPM. Wash. Tree Fruit Res. Commission
Pest Management Review, Pasco, WA 31 Jan.
(invited presentation)

Interaction of dispersal and management of CM
and OBLR. Wash. Tree Fruit Res. Commission
Pest Management Review, Pasco, WA 31 Jan.
(poster)

WSU–Decision Aid System and what it can do for
you. NW Wholesale IPM Session. 5 Feb. (invited
speaker)

Expanding and stabilizing WSU-DAS. Wash. Tree
Fruit Res. Commission Tech Committee Meeting
27 March, 14 Aug., 9 Dec.

Comparison of the effect of delayed female mating
on reproductive biology of codling moth and
obliquebanded leafroller. Pacific Branch of ESA,
Napa, CA. 1 March.

Decision support systems. Engineering solutions
for specialty crops. Pasco, WA. 28-29 July.
(invited speaker)

Enhancing Biological Control to Stabilize Western
Orchard IPM Systems. Ann. Wash. State Hort.
Assoc Meeting, Yakima, WA (poster). 2 Dec.

WSU-Decision Aid System: Latest Features and
Survey Results. Ann. Wash. State Hort. Assoc
Meeting, Yakima, WA (poster). 2 Dec