CURRICULUM VITAE
University of Idaho

NAME: Eigenbrode, Sanford D. **DATE:** 1 March 2014

RANK OR TITLE: University Distinguished Professor

DEPARTMENT: Plant, Soil and Entomological Sciences

OFFICE LOCATION AND CAMPUS ZIP: Campus Core Ag Science 242, 2339
OFFICE PHONE: (208) 885-2972
FAX: (208) 885-7760
EMAIL; sanforde@uidaho.edu
WEB: http://www.ag.uidaho.edu/pses/People/fac_pages/p_fac_eigenbrode.htm

DATE OF FIRST EMPLOYMENT AT UI: September 1, 1995

DATE OF TENURE: July 1, 2001

DATE OF PRESENT RANK OR TITLE: July 1, 2009

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., 1990, Entomology (Minor in Plant Physiology), Cornell University
M.Sc., 1986, Natural Resources, Cornell University
B.S., 1970, Biology, Major in Neurobiology and Behavior, Cornell University

EXPERIENCE:

Teaching, Extension and Research Appointments:

University Distinguished Professor and Professor of Entomology, University of Idaho, 2013-present
Professor of Entomology Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, 2006-present
Associate Professor of Entomology, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, 2001-2006
Assistant Professor of Entomology, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, 1995-2001
Postdoctoral Scientist, Department of Entomology, University of Arizona, Tucson, 1993-1995
Postdoctoral Scientist, Department of Entomology, University of California, Riverside, 1990-1993
Postdoctoral Scientist, Departments of Entomology and Horticultural Science, New York State Agricultural Experiment Station, Cornell University, 1990
Graduate Research Assistant, Cornell University, NYAES, 1989-1990
Graduate Research Assistant, Cornell Biotechnology Program, 1988

Academic Administrative Appointments:

Division Chair of Entomology, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, November 2004-present
Interim Division Chair of Entomology, Department of Plant, Soil and Entomological Sciences, University of Idaho, Moscow, January-November 2004
Coordinator of the Joint Doctoral Program between University of Idaho and CATIE (Centro Agronómico Tropical de Investigación y Enseñanza) Turrialba, Costa Rica, 2003-present

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Ecology, Chemical Ecology, Insect-Plant Interactions, Biological Control, Host Plant Resistance, Virus-Plant-Vector Interactions

Courses Taught:

University of Idaho:

Interdisciplinary Climate Change, Ent/Geog/CNR 501, (with J. Hicke and B. Newingham, Spring 2012
Insect Ecology, Ent 441/541, Spring 2000, Fall 2003, Fall 2005, Fall 2007, Fall 2009
Insect-Plant Interactions, Ent 445/549, Fall 1998, 2000, 2002 2004, 2006, 2008, 2010
Host Plant Resistance, Ent 446/546, (with N. Bosque-Pérez), Spring 1999, 2001, 2003
Philosophical Issues in Interdisciplinary Research – Ent 504/Phil. 504, Spring 2005
Insect-Plant Interactions (in 1-unit modules: Ent 445/549, Ent 441/541, Ent 446/546), Fall 1996
Entomology Internship Ent 398, Summer 2006, 2007, 2008, 2009, 2010, 2012
Insect Community Ecology Directed Study, Fall 2006
Chemical Ecology Methods, Summer 2003, Spring 2004
Graduate Seminar/Colloquium Ent 501, Fall 1996, 1998, 2006, 2009, 2013; Spring 2003

Other Teaching Experience:

Water Resources 506 – Guest lecture, Cross Disciplinary Collaboration using the Toolbox. 2010, 2011, 2013
Host Plant Resistance to Insects and Pathogens, Ent 446/546, 6 guest lectures each year, 2005, 2007, 2009, 2012
Botany – PlSci 240 – Guest lecture "Insects on Plants"
Biological Invasions – ForesRes 504 – Guest Lecture, 'Introduced coccinellid predators: beneficials or noxious invaders?' March 2005 and 2006
Environmental Science Practicum: Instructor for poster preparation exercise (guest lectures), yearly from 2000-2010
Insect-Plant Interactions, CATIE, Costa Rica, Summer/Fall 2001
Introductory Biology, Cornell University Summer session
Laboratory Course Coordinator (for Neil Campbell, lecturer) 1987
Laboratory Instructor (for Neil Campbell, lecturer) 1986
Graduate Teaching Assistant at Cornell University for 9 semesters, courses: Introductory Biology, Agriculture and Wildlife, Insect Biology, Economic Entomology, 1983-87
High School and Middle School Teacher, Biology, Chemistry, General Science, and Special Topics, Ithaca City School District, Ithaca, New York, 1974-83

Students and Postdocs Advised:

Postdoctoral trainees, with topics:

Thomas Seth Davis, Insects and climate change (2012 to present)
Dheivasigamana Rajabaskar, Virus-plant-aphid interactions (2011-2013) (Current Position: Assistant Professor, Tamil Nadu University)
Aaron Weed, Aphid landscape ecology (2011) (Current position: Postdoc, Dartmouth)
Claire E. Rutledge, Plant waxes and the behavior and effectiveness of generalist predators (1998-2001) (Current position: Research Scientist, Connecticut Agricultural Experiment Station)
Gary Chang, Interpredator interactions in peas (2000-03) (Current position: Associate Professor, Gonzaga University)

M.S. theses completed, with thesis titles:

Damon S. Husebye, 2013. "Virus forecasting in Palouse legumes"
Sunil Paudel, Aug. 2013. "Action thresholds for treating aphids as virus vectors"
Susan Y. Emmert, May 2003, "Kairomonal and pheromonal attractants for sugar beet root maggot fly."
Patrick Duetting, May 2002, "Effects of a surface waxbloom mutation in *Pisum sativum* on the epizootic parameters of an entomophthoralean fungus infecting the pea aphid."
Qun Li, August 1999, "Responses of insect herbivores to varying myrosinase activity and glucosinolate concentration in *Brassica,*" (This thesis received the 2000 H. C. Manis award for outstanding graduate student thesis or paper in entomology at the University of Idaho)

Cynthia White, August 1998, "Effects of *Pisum sativum* surface waxbloom variation on herbivores and predators", (This thesis received the 1999 H. C. Manis award for outstanding graduate student thesis or paper in entomology at the University of Idaho)

Ph.D. dissertations completed, with dissertation titles:

Carole Rapo, 2011 "Metabolic profiling to assess risk of nontarget attack by a biological control agent."

Christopher N. Looney, August 2008, "Remnant prairie patches and the quality of the agricultural matrix."

Timothy Hatten, August 2006, "Landscape patterns in carabid fauna in northern Idaho" (co-major professor with N. Bosque-Pérez), 2006

Edgar H. Varon, August 2006, "Response of leafcutter ants to landscape fragmentation in Costa Rican coffee."

Ph.D. Dissertations in progress, with dissertation topics:

Paul Rhoades, Landscape conservation of insect populations in the Palouse region

M.S. Theses in progress

Nathaniel Foote, Modeling cereal leaf beetle response to climate change

Committee Member for Graduate Research Projects, in progress or completed:

18 Ph.D., Entomology, University of Idaho
5 Ph.D., Entomology, Washington State University
2 Ph.D., Forest Resources, University of Idaho
1 Ph.D., Biological Sciences, University of Idaho
14 M.Sc., Entomology, University of Idaho
2 M.Sc., Forest Resources, University of Idaho
1 M.Sc. Agricultural Economics
1 Ph.D. Agricultural Economics
1 Ph.D. Biology and Mathematics, Washington State University

Undergraduate Research Mentoring (27 students, 13 continuing with graduate studies):

Lyndsay Nutsch, Field bioassays for aphid injury and virus transmission
Brianna Whitman, Trap cropping for flea beetle control
Tyler Dale, Trap cropping for flea beetle control
Georgia Seyfried, Climate change and aphid phenology
Laura Hancock, Aphid trends in PNW cereal systems
Katy Thomas, Bombus communities on prairie remnants
Cory Zita, Bombus communities near pea fields
Nichole Valdez, Metabolomic profiling to understand weevil resistance in interspecific hybrid oilseed Brassica, 2011 CRISSP REU
Melinda Fernandez, Host-plant interactions involving two weevil species, 2010 CRISSP REU
Irina Shapiro, Host-plant interactions involving two weevil species, 2009 CRISSP REU
Damon Husebye, Weather patterns associated with pea aphid outbreaks in the Palouse, 2008
Bennett Kirsch, Arthropods on native roses in the Palouse (CRISSP Intern), 2007
Emily Poor, parasitoids of cynipid wasps on native and invasive roses (College of Natural Resources Senior Thesis project), 2007
Melia Nafus, Landscape patterns of virus infection in legumes in the Palouse region, 2006-2007
Kelly Howe, Environmental Science 497, 2004, Mapping landuses in the Palouse.
Ben Caldwell, Silphidae distributions on prairie remnants in the Palouse (NSF Research Experience for Undergraduates Program at the University of Idaho) Summer 2003
Tricia Johnson, Carabid behavioral responses to tillage regimes, (NSF Research Experience for Undergraduates Program at the University of Idaho) Summer 2003
Sarah Gebbie, Insect conservation on Palouse Prairie (NSF Research Experience for Undergraduates Program at the University of Idaho) Summer 2002
Jeff Neufeld, Multitrophic interactions, parasitoid responses to aphids infected with a fungal pathogen, Spring 2001 (Ent. 401)

Analiz Rodriguez, Attraction of *Myzus persicae* to volatiles from virus infected potatoes (NSF Research Experience for Undergraduates Program at the University of Idaho, Summer 2001)
James Hulme, Environmental Science 497, 2000, CRP land for conservation of insect natural enemies. The poster resulting from this project won 2nd prize in the Environmental Science Practicum Poster Competition at University of Idaho.
Robert Flagor, Environmental Science 497, 1999, Cardenolides as emetic deterrents against bird depredation in agriculture.
Sarah Wallace, 1998-99, Optimal defense theory, myrosinase and glucosinolates in *B. juncea* seedlings. Manuscript in Prep.
Patrick Duetting, 1998, Does Agrobacterium-mediated opine production provide a defense against insect herbivory?
John Madden, 1998, Grasshopper communities in a southern Idaho riparian zone.
Drew Byrne, 1998, Glucosinolates and myrosinase in cotyledons of *Brassica juncea* are not inducible.
Shannon Laughlin, 1997, Plant preferences for pupation by coccinellids in the field: *Chenopodium* is shunned.
Rob Nagley, 1996, Prey preference of *Orius insidiosus*.

Other advising:
Undergraduate advisees: Roderick Sprague, Damon Husebye, Kevin Cloonan, Raymond Randal, Brittany Whitman, Cory Zita, Brianna Wittman
Faculty advisor, Aldrich Entomology Club, 1996-2005
Coach, graduate student debating teams participating in debates at the Annual Meeting of the Entomological Society of America 1996-97, (with Nilsa Bosque-Pérez in 1997)
Mentor for *Helping Orient Indian Students and Teachers to Science Program* 1997-2003.

SCHOLARSHIP ACCOMPLISHMENTS:

Books, Edited

O'Rourke, M., Eigenbrode, S. D., Crowley, S., Wulfhorst, J. D. (eds.) 2013. Enhancing interdisciplinary research through communication & collaboration, Sage Publications.

Books, Authored

Mote, P., Snover, A., Capalbo, S., Eigenbrode, S. D., Glick, P., Littell, J., Raymondi, R., Reeder, S. 2013. The Northwest Region and Climate Change. Island Press.

Commissioned Reports (in processing)

Mote, P., Snover, A., Capalbo, S., Eigenbrode, S. D., Glick, P., Littell, J., Raymondi, R., Reeder, S. 2013. National Climate Assessment Chapter, Northwest Region, National Climate Assessment

Book Chapters (total, 17):

Meghan M. Dalton, Jeffrey Bethel, Susan M. Capalbo, J. E. Cuhaciyan, Sanford D. Eigenbrode, Patty Glick, Laurie L. Houston, Jeremy S. Littell, Kathy Lynn, Philip W. Mote, Rick R. Raymondi, W. Spencer Reeder, Sarah L. Shafer, Amy K. Snover. Executive Summary, pp. xix-xl, in. in Dalton, M., Mote, P., Snover, A. 2013. Climate Change in the Northwest: Implications for Our Landscapes, Waters, and Communities. Island Press, Washington, D.C.

Eigenbrode, S.D., Kruger, C., Johnson-Maynard, J., Capalbo, S. 2013. Agriculture, pp. 149-180 *in* Dalton, M., Mote, P., Snover, A. 2013. Climate Change in the Northwest: Implications for Our Landscapes, Waters, and Communities. Island Press, Washington, D.C.

Eigenbrode, S. D., Bosque-Pérez, N.A. 2014. Chemical ecology of aphid-vectored plant viruses. In Brown, J. K. (ed.): Vector-mediated transmission of plant pathogens. APS press. In press

Looney et al. 2013. Seeing through the eyes of collaborators: guidelines for using toolbox workshops to enhance cross-disciplinary communication, pp. 220-243 *in* O'Rourke, M., Eigenbrode, S. D., Crowley, S.,

Wulfhorst, J.D. (eds.) 2013. Enhancing interdisciplinary research through communication & collaboration, Sage Publications

Gorb, E., Voigt, D., Eigenbrode, S. D., Gorb, S. 2012. *Cryptolaenus montrouzieri* (Coleoptera, coccinellidae) on leaflet surfaces of mutants of the pea *Pisum sativum* (Fabaceae) with regular and reduced wax coverage, pp. 29-48. *in* S. Gorb (ed.) Adhesion and friction in biological symptoms, vol. 3, Springer, Dordrecht.

Clement, S. L., D. S. Husebye, and S. D. Eigenbrode. 2010. Ecological Factors Influencing Pea Aphid Outbreaks in the US Pacific Northwest *in* P. Kindlmann, A. F. G. Dixon and J. P. Michaud (eds.), Aphid biodiversity under environmental change: patterns and processes. Springer, Dordrecht.

Eigenbrode S. D., W. E. Snyder, G. Clevenger, H. Ding & S. N. Gorb. 2009. Variable attachment to plant surface waxes by predatory insects. *in* Gorb S.N. (ed.): Functional Surfaces in Biology. Springer, New York, pp. 1–35.

Eigenbrode, S.D. 2004. Plant defenses against insects: physical defenses. Encyclopedia of Plant and Crop Science. Marcel Dekker. http://www.dekker.com/servlet/product/productid/E-EPCS#description.

Jenks, M.A., S.D. Eigenbrode, and B. Lemeiux. 2002. Cuticular waxes of *Arabidopsis*, pp. 1-24. *in* C. Somerville and E. Meyerowitz (eds.), The *Arabidopsis* Book. American Society of Plant Biologists, Rockville, Maryland.

Alvarez, J.M., S.D. Eigenbrode, and J.B. Johnson. 2002. Seguimiento de insectos contaminados con material radiactivo en el medio natural mediante el radar armónico. *Bol. S.E.A*. 30: 221-222.

Eigenbrode, S.D. 2002. Resistance management in host-plant resistance, pp. 708-711. In D. Pimentel (ed.), *Encyclopedia of Pest Management*. Marcel Dekker, Inc., New York.

Eigenbrode, S.D. 2002. Resistance to host plant resistance, pp. 712-713. *in* D. Pimentel (ed.), *Encyclopedia of Pest Management*, Marcel Dekker, Inc., New York.

Eigenbrode, S. 2001. Managing pest adaptation to host plant resistance, *in* D. Pimentel (ed.) *Encyclopedia of Pest Management*, Marcel Dekker, http:///www.dekker.com/servelet/product/productid/E-EPM.

Eigenbrode, S.D. and S.L. Clement. 1998. Plant genetic resources for study of plant insect interactions. pp. 243-262, *In:* Quisenberry, S. and Clement, S. (eds.) *Plant genetic resources for development of insect resistant crops*, CRC Press, Boca Raton, Louisiana.

Eigenbrode, S.D., and E.A. Bernays. 1997. Evaluation of factors affecting host plant selection, with an emphasis on studying behaviour. pp. 147-170, *in* Dent, D. (ed.) *Methods in agricultural and ecological entomology*, A.B. International, Oxon, U.K.

Eigenbrode, S.D. 1996. Influence of plant surface waxes on insect behaviour. pp. 201-222, *in* Kerstiens, G. (ed) *Plant cuticles: an integrated functional approach*. Bios Press, Oxford.

Eigenbrode, S.D. 1996. Host plant resistance and the conservation of genetic diversity, solicited chapter *in* electronic textbook T. Radcliffe (ed.), University of Minnesota, http://www.ent.agri.umn.edu/ academics/classes/ipm/chapters/eigenbr.htm.

Refereed Publications (total, 107):

Davis et al. 2014. Host settling behavior, reproductive performance, and effects on plant growth of an exotic cereal aphid, *Metopolophium festucae* subsp. *cerealium* (Hemiptera: Aphididae),

Wissinger, B.D., Eigenbrode, S. D., Marshall, J, Hoines, J.D. and Newingham, B.A. 2014. Altered nitrogen and precipitation along urban gradients affect harvester ants and seed sources. Journal of Arid Environments, in press

Shrestha, D., E. J. Wenninger, P. J. S. Hutchinson, J. L. Whitworth, S. Mondal, S. D. Eigenbrode, and N. A. Bosque-Pérez. 2014. Interactions among potato genotypes, virus strains, and inoculation timing and methods in the *Potato virus Y* and green peach aphid pathosystem. Journal of Economic Entomology **in press**.

Vemulapati, B., K.L. Druffel, D. Husebye, S.D. Eigenbrode and H.R. Pappu. 2014. Development and application of ELISA assays for the detection of two members of the family Luteoviridae: *Pea enation mosaic virus* (genus Enamovirus) and *Bean leafroll virus* (genus Luteovirus). Annals of Applied Biology, in press.

Rajabaskar, D., N. A. Bosque-Pérez, and S. D. Eigenbrode. 2014. Preference by a virus vector for infected plants is reversed after virus acquisition. Virus Research, in press

Stokes, B. S., Eigenbrode, S. D., Bechinski, E. 2013. Derivation and validation of a binomial sequential decision plan for managing pea aphids as direct pests of dry pea in the Pacific Northwest, Journal of Economic Entomology, 106:2267-2684

Roosien, B.K., Gomulkiewicz, R., Ingwell, L. L., Bosque-Pérez, N. A., Rajabaskar, D. and Eigenbrode, S. D. 2013. Conditional vector preference aids the spread of plant pathogens. Environmental Entomology, 42:1299-308

Jain, S., N. F. Weeden, L. D. Porter, S. D. Eigenbrode & K. McPhee. 2013. Finding linked markers to en for efficient selection of Pea enation mosaic virus resistance in Pea. doi: 10.2135/cropsci2013.04.0211; Posted online, *Crop Science*,12 June 2013

Halbert, S. E., Y. Wu, & S. D. Eigenbrode. 2013 *Metopolophium festucae cerealium* (Hemiptera: Aphididae), a new addition to the aphid fauna of North America. *Insecta Mundi* 0301:1-6

Rajabaskar, D. H. Ding, Y. Wu, & S. D. Eigenbrode. 2013. Different reactions of potato varieties to infection by *Potato leafroll virus*, and associated responses by its vector, *Myzus persicae* (Sulzer). Journal of Chemical Ecology 9:1027-1035

Rajabaskar, D., Y. Wu, N. A. Bosque-Pérez, & S. D. Eigenbrode. 2013. Dynamics of Myzus persicae (Sulzer) (Hemiptera: Aphididae) Arrestment by volatiles from Potato leafroll virus- (Luteoviridae: Polerovirus) infected potato plants during disease progression. *Entomologia Experimentalis et Applicata.* 148: 172–181.

Rajabaskar, D., H. Ding, Y. Wu, & S. D. Eigenbrode. 2013. Behavioral responses of green peach aphid, *Myzus persicae* (Sulzer), to the volatile organic compound emissions from four potato varieties. *American Journal of Potato Research* DOI 10.1007/s12230-012-9282-z 90(2) April 2013. p. 171 – 178.

Williams, C. J., S. Crowley, S. D. Eigenbrode, M. O'Rourke. 2013. Using bibliometrics to support the facilitation of cross-disciplinary communication. *Journal of the American Society of Information Science and Technology*. 10.1002/asi.22874

Hansson, D., M.J. Morra, V. Borek, and S. D. Eigenbrode. 2013. Green peach aphid [*Myzus persicae* (Sulzer) (Hemiptera: Aphididae)] control using Brassicaceae ethyl-ester oil sprays. *Journal of Applied Entomology*, in press

Szucs, M., S. D. Eigenbrode, M. Schwarzlander, and U. Schaffner. 2012. Hybrid vigor in the biological control agent, *Longitarsus jacobaeae*. *Evolutionary Applications* 5:489-497.

Looney, C.N., S. D. Eigenbrode. 2012. Characteristics and distribution of Palouse prairie remnants: Implications for conservation planning. *Natural Areas Journal*. 32:75-85.

Mauck, K., N. Bosque-Pérez, S. D. Eigenbrode, C. De Moraes, M. Mescher. 2012.Transmission mechanisms shape pathogen effects on host–vector interactions: evidence from plant viruses. *Functional Ecology*. 26: 1162–1175, doi: 10.1111/j.1365-2435.2012.02026.x

Ingwell, L. L., Eigenbrode, S. D. & Bosque-Pérez, N. A. 2012. Plant viruses alter insect behavior to enhance

their spread. *Science Reports*. doi:http://www.nature.com/srep/2012/120815/srep00578/abs/srep00578.html#supplementary-information (2012).

Northfield, T., W. E. Snyder, G. B. Snyder and S. D. Eigenbrode. 2012. A simple plant mutation abets a predator-diversity cascade. *Ecology*. 93:411-420.

Pérez-Flores, J., S. D. Eigenbrode, and L. Hilje-Quiroz. 2012. Alkaloids, limonoids and phenols from Meliaceae species decrease survival and performance of *Hypsipyla grandella* larvae. 3: 988-994.

Elbakidze, L. L. Liang, and S. D. Eigenbrode. 2011. Evaluating vector-virus-yield interactions for peas and lentils under climatic variability: a limited dependent variable analysis. *Journal of Agricultural and Resource Economics*. 36:504-520.

Vemulapati, B., Druffel, K.L., S. D. Eigenbrode, A. Karasev, and H. R. Pappu. 2011. Genomic characterization of pea enation mosaic virus-2 from the Pacific Northwestern USA. *Archives of Virology*. On line DOI 10.1007/s00705-011-1074-0

Bosque-Pérez, N. A. and S. D. Eigenbrode. 2011. Influence of virus-induced changes in plants on aphid vectors. *Virus Research*. 159:201-205

Varón, E.H., S.D. Eigenbrode, N.A. Bosque-Pérez, J. Jones, and L. Hilje. 2011. Coffee farm diversity and landscape features influence density of colonies of *Atta cephalotes*. J*ournal of Economic Entomology*. 104:164-172

Looney, C. N., S. D. Eigenbrode. 2011. Landscape-level effects on cynipid component communities of "orphaned" native shrubs. J*ournal of Insect Conservation*, on line: DOI 10.1007/s10841-010-9369-0

Perez-Flores, J., L. Hilje, F. Mesen, R. Tripepi, S. D. Eigenbrode. 2010. Use of grafting to prevent *Hypsipyla grandella* (Zeller) (Lepidoptera: Pyralidae) damage to New World Meliaceae species. *Neotropical Entomology*. 39:618-625.

Vemulapati, B., Druffel, K.L., S. D. Eigenbrode, A. Karasev, and H. R. Pappu. 2010. Molecular characterization of *Pea enation mosaic virus* (genus *Enamovirus*) and *Bean leaf roll virus* (genus *Luteovirus*) from the Pacific Northwestern USA. *Archives of Virology*. 155:1713-1715.

Hatten, T. D., R. M. Dahlquist, S. D. Eigenbrode, N. A., and Bosque-Pérez. 2010. Tillage affects the activity-density, absolute density, and feeding damage of the pea leaf weevil in spring pea. *Entomologia Experimentalis et Applicata*. 136:235-242.

Hanavan, R. T., Bosque-Perez, N., Schotzko, D., Eigenbrode, S. D. 2010. Influence of tillage on adult and immature pea leaf weevil (Coleoptera: Curculionidae) densities in pea. *Journal of Economic Entomology*. 103: 691-697

Looney, C., B. T. Caldwell, and S. D. Eigenbrode. 2010. When the prairie varies: The importance of site characteristics for strategizing insect conservation. *Insect Conservation and Diversity*. 2: 243-250.

Medina-Ortega, K., N. A. Bosque-Pérez, E. Ngumbi, E. S. Jimenez-Martinez, and S. D. Eigenbrode. 2009. *Rhopalosiphum padi* (Hemiptera: Aphididae) behavioral responses to Barley yellow dwarf virus-infected and non-infected wheat plants. *Environmental Entomology*. 38:836-845.

Perez, J., S. Eigenbrode, L. Hilje, R. Tripepi, M. E. Aguilar, and F. Mesén. 2009. Leaves from grafted Meliaceae species affect survival and performance of *Hypsipyla grandella* (Zeller) (Lepidoptera: Pyralidae) larvae. *Journal of Pest Science*, published on line: DOI 10.1007/s10340-009-0275-8.

Umiker, K. J., J. Johnson-Maynard, T. D. Hatten, S. D. Eigenbrode, and N. A. Bosque-Pérez. 2009. Soil carbon, nitrogen, pH, and earthworm density as influenced by cropping practices in the Inland Pacific Northwest. *Soil*

and Tillage Research. 105:184-191.

Werner, B. J., T. M. Mowry, N. A. Bosque-Pérez, H. Ding, and S. D. Eigenbrode. 2009. Changes in green peach aphid responses to *Potato leafroll virus*-induced volatiles emitted during disease progression. *Environmental Entomolog*y. 38(5): 1429-1438.

Medina-Ortega, K., N. A. Bosque-Pérez, E. Ngumbi, E. S. Jimenez-Martinez, and S. D. Eigenbrode. 2009. *Rhopalosiphum padi* (Hemiptera: Aphididae) behavioral responses to *Barley yellow dwarf virus*-infected and non-infected wheat plants. *Environmental Entomolog*y. 38:836-845.

Donovan, S., Looney, C., Hanson, T., Sanchez-de Leon, Y., Wulfhorst, J.D., Eigenbrode, S.D., Jennings, M., Bosque-Pérez, N. 2009. Reconciling social and biological needs in an endangered ecosystem: the Palouse as a model for bioregional planning, *Ecology and Society*, 14:9. http://www.ecologyandsociety.org/vol14/iss1/art9/.

Pocewicz, A., P. Morgan, and S. D. Eigenbrode. 2009. Local and landscape effects on butterfly density in northern Idaho grasslands and forests. *Journal of Insect Conservation.* 13: 593–601.

Newcombe, G., A. Shipunov, S. D. Eigenbrode, A. K. H. Raghavendra, H. Ding, C. L. Anderson, R. Menjivar, R. Crawford, and M. Schwarzländer. 2009. Endophytes influence protection and growth of an invasive plant. *Communicative and Integrative Biology.* 2:249-251.

Gorb, E., D. Voigt, S. D. Eigenbrode, and S. Gorb. 2008. Attachment force of the beetle *Cryptolaemus montrouzieri* (Coleoptera, Coccinellidae) on leaflet surfaces of mutants of the pea *Pisum sativum* (Fabaceae) with regular and reduced wax coverage. *Arthropod-Plant Interactions*, on line: 10.1007/s11829-008-9049-0.

Srinivasan, R., J. M. Alvarez, N. A. Bosque-Pérez, S. D. Eigenbrode, R. G. Novy. 2008 Effect of an alternate weed host, hairy nightshade, *Solanum sarrachoides*, on the biology of the two most important *Potato leafroll virus* (Luteoviridae: Polerovirus) vectors, *Myzus persicae* and *Macrosiphum euphorbiae* (Aphididae: Homoptera), *Environmental Entomology*. 37:592-600.

Hanavan R. P., N. A. Bosque-Pérez, D. J. Schotzko, S. O. Guy and S. D. Eigenbrode. 2008 Early-season aerial adult colonization and ground activity of pea leaf weevil, *Sitona lineatus* (L.) (Coleoptera: Curculionidae) in pea (*Pisum sativum* L.) as influenced by tillage system, *Journal of Economic Entomology*. 101:1606-1613.

Rutledge, C.E., Eigenbrode, S.D., Ding, H. 2008. A plant surface mutation mediates predator interference among ladybird larvae. *Ecological Entomology*, 33:464-472.

Eigenbrode, S.D., J.E. Andreas, M.G. Cripps, H. Ding, R.C. Biggam, and M. Schwarzländer. 2008. Induced chemical defenses in invasive plants: a case study with *Cynoglossum officinale* L. *Biological Invasions*. 10:1373-1379

Eigenbrode, S.D., M. O'Rourke, D.M. Althoff, C.S. Goldberg, K. Merrill, W. Morse, M. Nielsen-Pincus, J. Stephens, L. Winowiecki, J.D. Wulfhorst, and N.A. Bosque-Pérez. 2007. Employing philosophical dialogue in collaborative science. *BioScience.* 57:55-64

Varón, H.D., S.D. Eigenbrode, N. Bosque-Pérez, L. Hilje. 2007. Effect of farm diversity on harvesting of coffee leaves by the leaf-cutting ant *Atta cephalotes*. *Agricultural and Forest Entomology.* 9:47-55.

Ngumbi E., Eigenbrode S.D., Bosque-Pérez N.A., Ding H. & Rodriguez A. 2007. *Myzus persicae* is arrested more by blends than by individual compounds elevated in headspace of PLRV-infected potato. *Journal of Chemical Ecology*. 33:1733-1747.

Hatten, T.D., N.A. Bosque-Pérez, J. Johnson-Maynard, and S.D. Eigenbrode. 2007. Tillage differentially affects the capture rate of pitfall traps for three species of carabid beetles. *Entomologia Experimentalis et Applicata*. 124:177-187.

Hatten, T.D., N.A. Bosque-Pérez, J.R. LaBonte, S.O. Guy, and S.D. Eigenbrode. 2007. Effects of tillage on the

activity-density and diversity of carabid beetles in spring and winter crops. *Environmental Entomology.* 36:356-368

Chang, G. C., J. Neufeld, and S. D. Eigenbrode. 2006. Leaf surface wax and plant morphology of peas influences insect density. *Entomologia Experimentalis et Applicata.* 119:197-205.

Eigenbrode, S. D., H. Ding, J. Neufeld, and P. Duetting. 2006. Effects of hydrophilic and hydrophobic kaolin-based particle films on pea aphid, *Acyrthosiphon pisum* (Homoptera: Aphididae) and its entomopathogen, *Pandora neoaphidis* (Entomophthorales: Entomophthoraceae). *Journal of Economic Entomology.* 90:13-31.

Hatten, T. D., S. D. Eigenbrode, N. A. Bosque-Pérez, G. S. A., F. Merickel, and C. Looney. 2006. Influence of matrix elements on prairie-inhabiting Curculionidae, Tenebrionidae and Scarabaeidae in the Palouse: Is conservation tillage conservation biology? North American Prairie Conference, Madison, Wisconsin, August 8-12, 2004.

Jiménez-Martínez, E. S., N. A. Bosque-Pérez, P. H. Berger, R. S. Zemetra, H. Ding, and S. D. Eigenbrode. 2004. Volatile cues influence the response of *Rhopalosiphum padi* (Homoptera: Aphididae) to *Barley yellow dwarf virus*-infected transgenic and untransformed wheat. *Environmental Entomology.* 33:1207-1216.

Looney, C., B. T. Caldwell, and S. D. Eigenbrode. 2006. Carrion beetle (Coleoptera: Silphidae, Leiodidae, and Histeridae) diversity in a highly fragmented Columbia Basin grassland. North American Prairie Conference, Madison, Wisconsin. August 8-12, 2004.

Eigenbrode, S. D., and H. Ding. 2006. Pea aphid control, 2005 *Arthropod Management Tests.* 31.

Srinivasan, R., J. M. Alvarez, S. D. Eigenbrode, and N. A. Bosque-Pérez. 2006. Influence of hairy nightshade *Solanum sarrachoides* (Sendtner) and *Potato leafroll virus* (Luteoviridae: Polerovirus) on the host preference of *Myzus persicae* (Sulzer) (Homoptera: Aphididae). *Environmental Entomology.* 35:346-353.

Gardiner, M.M., S.D. Eigenbrode, D.C. Cervantes and J.D. Barbour. 2005. Response of *Neoseiulus fallacis* Garmen and *Galendromus occidentalis* Nesbitt (Acari: Phytoseiidae) to *Tetranychus urticae* Koch (Acari: Tetranychidae)-Damaged Hop *Humulus lupulus* L. (Urticales: Cannabaceae). *Journal of Agricultural and Forest Entomology.* 7:245-251.

Snyder, W.E., G.M. Clevenger and S.D. Eigenbrode. 2004. Intraguild predation and successful invasion by introduced ladybird beetles. *Oecologia.* 140:559-565.

Jiménez-Martínez, E.S., N.A. Bosque-Pérez, P.H. Berger, R.S. Zemetra, H. Ding, and S.D. Eigenbrode. 2004. Volatile cues influence the response of Rhopalosiphum padi (Homoptera: Aphididae) to Barley yellow dwarf virus-infected transgenic and untransformed wheat. *Environmental Entomology.* 33:1207-1216.

Chang, G.C., C.E. Rutledge, R.C. Biggam, and S.D. Eigenbrode. 2004. Arthropod diversity in normal versus reduced waxy bloom peas evaluated by pitfall sampling. *Journal of Insect Science.* 4:18-29.

Eigenbrode, S.D. 2004. The effects of plant epicuticular waxy blooms on attachment and effectiveness of predatory insects. *Arthropod Structure and Development.* 33:91-102.

Chang, G.C., and S.D. Eigenbrode. 2004. Delineating the effects of a plant trait on interactions among associated insects. *Oecologia*. 129:123-130.

Chang, G.C., J. Neufeld, P.S. Duetting, and S.D. Eigenbrode. 2004. Waxy bloom in peas influences the performance and behavior of *Aphidius ervi*, a parasitoid of the pea aphid. E*ntomologia Experimentalis et Applicata*. 110:257-265.

Duetting, P.S., H. Ding, J. Neufeld, and S.D. Eigenbrode. 2003. Plant waxy bloom on peas affects infection of pea aphids by *Pandora neoaphidis*. *Journal of Invertebrate Pathology.* 84:149-158.

Warren, J.M., J.H. Bassman, J.K. Fellman, D.S. Mattinson, and S. Eigenbrode. 2003. Ultraviolet-B radiation alters phenolic salicylate and flavonoid composition of *Populus trichocarpa* leaves. *Tree Physiology.* 23:527-536.

Rutledge, C.E., and S.D. Eigenbrode. 2003. Epicuticular wax on pea plants decreases instantaneous search rate of *Hippodamia convergens* larvae and reduces their attachment to leaf surfaces. *Canadian Entomologist*. 135:93-101.

Rutledge, C.E., A.P. Robinson and S.D. Eigenbrode. 2003. Effects of a simple plant morphological mutation on the arthropod community and the impacts of predators on a principal insect herbivore. *Oecologia*. 135:39-50.

Eigenbrode, S.D., and R. Jetter. 2002. Attachment to plant surface waxes by an insect predator. *Integrative and Comparative Biology.* 42:1091-1099.

Warren, J. M., J. H. Bassman, and S. Eigenbrode. 2002. Leaf chemical changes induced in *Populus trichocarpa* by enhanced UV-B radiation and concomitant effects on herbivory by *Chrysomela scripta* (Coleoptera: Chrysomelidae). *Tree Physiology.* 22:1137-1146.

Eigenbrode, S.D., H. Ding, P. Shiel, and P.H. Berger. 2002. Volatiles from potato plants infected with potato leafroll virus attract and arrest the virus vector, *Myzus persicae* (Homoptera: Aphididae). *Proceedings of the Royal Society*, *Series B*. 269:455-460.

Li, Q., J.H. Brown, and S.D. Eigenbrode. 2002. Variation of myrosinase activity in the cross progenies of two *Brassica juncea* lines with relatively low and high myrosinase activities. *Canadian Journal of Plant Science*. 82:579-582.

Polerstock, A.R., S.D. Eigenbrode, and M.J. Klowden. 2002. Mating alters the cuticular hydrocarbons of female *Anopheles gambiae* sensu stricto and *Aedes aegypti* (Diptera: Culicidae). *Journal of Medical Entomology.* 39:545-552.

Cervantes, D., S.D. Eigenbrode, H. Ding, and N. Bosque-Pérez. 2002. Oviposition preference of Hessian fly, *Mayetiola destructor*, on winter wheats varying in surface waxes, *Journal of Chemical Ecology*. 28:193-210.

Wallace, S., and S.D. Eigenbrode. 2002. Changes in the glucosinolate-myrosinase defense system in *Brassica juncea* cotyledons during seedling development. *Journal of Chemical Ecology*. 28:243-256.

Eigenbrode, S. D., L. Rayor, J. Chow and P. Latty. 2000. Effects of waxbloom variation in *Brassica oleracea* on foraging by a vespid wasp. *Entomologia Experimentalis et Applicata*. 97:161-166.

Eigenbrode, S.D., N.N. Kabalo and C.E. Rutledge. 2000. Potential of reduced-waxbloom oilseed *Brassica* for insect pest resistance. *Journal of Agricultural and Urban Entomology.* 17:53-63.

Li, Q., S.D. Eigenbrode, G.R. Stringam, and M.R. Thiagarajah. 2000. Feeding and growth of *Plutella xylostella* and *Spodoptera eridani*a on *Brassica juncea* with varying glucosinolate concentrations and myrosinase activities. *Journal of Chemical Ecology.* 26:2401-2419.

White, C. and S.D. Eigenbrode. 2000. Effects of surface wax variation in *Pisum sativum* L. on herbivorous and entomophagous insects in the field. *Environmental Entomology*. 29:776-780.

White, C. and S.D. Eigenbrode. 2000. Leaf surface waxbloom in *Pisum sativum* influences predation and intra-guild interactions involving two predator species. *Oecologia*. 124:252-259.

Eigenbrode, S.D., J.L. Tipton and M. White. 1999. Differential cutting by leaf-cutter bees (Megachilidae: Hymenoptera) on leaves of Eastern redbud and on Mexican redbuds with different surface waxes. *Journal of the Kansas Entomological Society*. 72:73-81.

Eigenbrode, S.D. and N.N. Kabalo. 1999. Effects of *Brassica oleracea* waxblooms on predation and attachment

by *Hippodamia convergens*. *Entomologia Experimentalis et Applicata*. 91:125-130.

Eigenbrode, S.D., N.N. Kabalo and K.A. Stoner. 1999. Predation, behavior, and attachment by *Chrysoperla plorabunda* larvae on *Brassica oleracea* with different surface waxblooms. *Entomologia Experimentalis et Applicata*. 90:225-235.

Eigenbrode, S.D. and S.K. Pillai. 1998. Neonate *Plutella xylostella* L. responses to surface wax components of a resistant cabbage (*Brassica oleracea* L.). *Journal of Chemical Ecology.* 24:1611-1627.

Eigenbrode, S.D., C. White and M. Rohde. 1998. Behavior and effectiveness of adult *Hippodamia convergens* (Coleoptera: Coccinellidae) as a predator of *Acyrthosiphon pisum* on a glossy-wax mutant of *Pisum sativum*. *Environmental Entomology.* 91:902-909.

Eigenbrode, S.D., C. White, M. Rohde and C.J. Simon. 1998. Epicuticular wax phenotype of the *wel* mutation and its effect on pea aphid populations in the greenhouse and in the field. *Pisum Genetics.* 29:15-19.

Eigenbrode, S.D., J.T. Trumble and K.K. White. 1996. Trichome exudates and resistance to beet armyworm (Lepidoptera: Noctuidae) in *Lycopersicon hirsutum f. typicum* accessions. *Environmental Entomology.* 25:90-95.

Eigenbrode, S.D., T. Castagnola, M.-B. Roux and L. Steljes, 1996. Mobility of three generalist predators is greater on cabbage with glossy leaf wax than on cabbage with a wax bloom. *Entomologia Experimentalis et Applicata.* 81:335-343.

Shelton, A.M., M.K. Kroening, S.D. Eigenbrode, C. Petzold, M.P. Hoffmann, J.A. Wyman, W.T. Wilsey, R.J. Cooley, and L.H. Pedersen. 1996. Diamondback moth (Lepidoptera: Plutellidae) contamination of cabbage transplants and the potential for insecticide resistance problems. *Journal of Entomological Science.* 31:347-354.

Eigenbrode, S.D, and K.E. Espelie. 1995. Effects of plant epicuticular lipids on insect herbivores. *Annual Review of Entomology.* 40:171-194.

Eigenbrode, S.D., S. Moodie, and T. Castagnola. 1995. Generalist predators mediate insect resistance in glossy cabbage. *Entomologia Experimentalis et Applicata.* 77:335-342.

Jenks, M.J., H. Tuttle, S.D. Eigenbrode, and K.A. Feldmann. 1995. Characterizing surface lipids on *Arabidopsis cer* mutant leaves and stems. *Plant Physiology*. 108:369-377.

Eigenbrode, S.D. and J.T. Trumble. 1994. Plant resistance to insects in integrated pest management in vegetables. *Journal of Agricultural Entomology.* 11:201-224.

Eigenbrode, S.D., J.T. Trumble, and K.K. White. 1994. Fruit-based tolerance to beet armyworm in *Lycopersicon* accessions. *Environmental Entomology.* 23:937-942.

Eigenbrode, S.D., J.T. Trumble, J.G. Millar, and K.K. White. 1994. Topical toxicity of tomato sesquiterpenes to the beet armyworm and the role of these compounds in resistance derived from an accession of *Lycopersicon hirsutum* f. *typicum*. *Journal of Agricultural and Food Chemistry.* 42:807-810.

Eigenbrode, S.D., A.M. Shelton, W.C. Kain, H. Leichtweis, and T.D. Spittler. 1993. Controlling lepidopteran pests in cabbage by inducing leaf glossiness with S-ethyldipropylthiocarbamate herbicide. *Entomologia Experimentalis et Applicata.* 69:41-50.

Eigenbrode, S.D. and J.T. Trumble. 1993. Antibiosis to beet armyworm (*Spodoptera exigua*) in *Lycopersicon* accessions. *Hortscience.* 28:932-934.

Eigenbrode, S.D., J.T. Trumble, and R.A. Jones. 1993. Resistance to beet armyworm (*Spodoptera exigua* [Hubner]), hemipterans, and *Liriomyza* spp. in Lycopersicon. *Journal of the American Society of Horticultural Science.* 118:525-530.

Shelton, A.M., J.L. Robertson, J.D. Tang, C. Perez, S.D. Eigenbrode, H.K. Preisler, W.T. Wilsey, and R.J. Cooley. 1993. Resistance of diamondback moth (Lepidoptera: Plutellidae) to *Bacillus thuringiensis* subspecies in the field. *Journal of Economic Entomology*. 86:697-705.

Eigenbrode, S.D., and A.M. Shelton. 1992. Survival and behavior of *Plutella xylostella* (L.) larvae on cabbages with leaf waxes altered by treatment with S-ethyldipropylthiocarbamate. *Entomologia Experimentalis et Applicata.* 62:139-145.

Shelton, A.M., R.J. Cooley, M.K. Kroening, W.T. Wilsey, and S.D. Eigenbrode. 1991. Comparative analysis of two rearing procedures for diamondback moth (Lepidoptera: Plutellidae*). Journal of Entomological Science.* 26:17-26.

Eigenbrode, S.D., K.E. Espelie, and A.M. Shelton. 1991. Behavior of neonate diamondback moth larvae on leaf surfaces and leaf wax extracts of resistant and susceptible cabbages. *Journal of Chemical Ecology.* 17:1691-1704.

Eigenbrode, S.D., K.A. Stoner, A.M. Shelton, and W.C. Cain. 1991. Characteristics of leaf waxes of *Brassica oleracea* associated with resistance to diamondback moth. *Journal of Economic Entomology.* 83:1609-1618.

Eigenbrode, S.D., and A.M. Shelton. 1990. Behavior of neonate diamondback moth larvae (Lepidoptera: Plutellidae) on glossy-leafed resistant genotypes of *Brassica oleracea. Environmental Entomology.* 19:1566-1571.

Eigenbrode, S.D., and A.M. Shelton. 1990. Effect of plant age on survival of diamondback moth on two cabbage genotypes. *HortScience.* 25:362.

Eigenbrode, S.D., A.M. Shelton, and M.H. Dickson. 1990. Two types of resistance to the diamondback moth (Lepidoptera: Plutellidae) in cabbage. *Environmental Entomology.* 19:1086-1090.

Eigenbrode, S.D., J. Barnard, and A.M. Shelton. 1989. A system for quantifying behavior of neonate caterpillars and other small, slow-moving animals*. Canadian Entomologist.* 121:1125-1126.

Eigenbrode, S.D., and D. Pimentel. 1988. Effects of manure and chemical fertilizers on plant quality and insect pest populations on collards. *Agriculture, Ecosystems and Environment.* 20:109-125.

Pimentel, D., Wen Dahzong, S. Eigenbrode, H. Lang, D. Emerson, and M. Karasik. 1986. Deforestation: interdependency of fuelwood and agriculture. *Oikos*. 46:404-412.

Abstracts and Proceedings (reviewed) (total, 26):

Eigenbrode, S.D. and N.A. Bosque-Pérez. 2010. Aphid behavioural responses to virus-infected host plants: Variability among luteovirus pathosystems. Entomological Society of America Annual Meeting. San Diego, California, December 12-15, 2010.

Eigenbrode, S.D., N.A. Bosque-Pérez, M. Ramos, and E.H Varón. 2010. Effects of on-farm botanical diversity and landscape context on insect pests of coffee agroforestry systems. Agrobiodiversity in Mesoamerica: from genes to landscapes, the 6th Henry A. Wallace Inter-American Scientific Conference, CATIE, Turrialba, Costa Rica, 20-24 September 2010.

Hatten, T.D., C. Looney, J.P. Strange, T. Griswold, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2010. Pollinators of Palouse prairie: survey of native bee fauna in a fragmented ecosystem. Entomological Society of America Pacific Branch Annual Meeting. Boise, Idaho, April 11-14, 2010.

Ingwell, L.L., N.A. Bosque-Pérez, and S.D. Eigenbrode 2010. Effects of Barley yellow dwarf virus infection in wheat on behavior of viruliferous and nonviruliferous aphids. Entomological Society of America Annual Meeting. San Diego, California, December 12-15, 2010.

Ingwell, L.L., N.A. Bosque-Pérez, L.M. Unger, H. Ding, A.V. Karasev, and S.D. Eigenbrode 2010. Bird cherry-oat aphid behavior in response to Barley yellow dwarf virus disease infection of wheat. Joint Meetings Plant Virus Epidemiology Symposium and Plant Virus Ecology Network. Ithaca, New York, June 20-24, 2010.

Ingwell, L.L., N.A. Bosque-Pérez, L.M. Unger, H. Ding, A.V. Karasev, and S.D. Eigenbrode 2010. Bird cherry-oat aphid behavior in response to Barley yellow dwarf virus disease infection of wheat. Abstracts of Pacific Branch of Entomological Society of America, p. 24.

Lindzey, S., Eigenbrode, S. D. Birch. A.N.E., Snyder, W., Parker, J. Expanding theory in push-pull manipulations of pestiferous insects. Abstracts of the Annual Meeting of the Pacific Branch of the Entomological Society of America, p. 24

Hatten, T.D, Looney, C., Strange, J.P. Griswold, T., Eigenbrode, S.D., Bosque-Pérez, N.A. Pollinators of Palouse prairie: survey of native bee fauna in a fragmented ecosystem. Abstracts of the Annual Meeting of the Pacific Branch of the Entomological Society of America, p. 41

Ding, H., Eigenbrode, S. D. Volatile profile of four potato varieties and the behavioral response of green peach aphid Myzus persicae (Sulzer). Abstracts of the Annual Meeting of the Pacific Branch of the Entomological Society of America, p. 53

Karasev AV, Poplawsky AR, Blades BS, Dibble M, Ding H, Dolja VV, Eigenbrode SD. 2009. *Nicotiana benthamiana* as a model plant to study aphid transmission of plant viruses. Phytopathology 99(6):S61-S61.

Toohey, R. M. Ramos, S. Donovan, E. Varon, E. Florian, J. Jones, A. Cardenas, C. Harvey, J.D. Wulfhorst, J. Boll, N.A. Bosque-Pérez, S. Eigenbrode, D. Stoian, and L. Hilje. 2007. Integrating decision maker preferences and ecosystem services of coffee agroforestry systems within the Volcánica Central de Talamanca Biological Corridor, Costa Rica. Proceedings International Meeting on Multi-Strata Agroforestry Systems with Perennial Crops. Centro Agronómico Tropical de Investigación y Enseñanza (CATIE), Turrialba, Costa Rica, Sept. 17-21, 2007. (D)

Andreas, J.E., M. Schwarzländer, H. Ding, S. D. Eigenbrode. 2007. Post-release nontarget monitoring of *Mogulones cruciger*, a biocontrol agent released to control *Cynoglossum officinale* in Canada. Proceedings of the International Symposium on Weed Biological Control, Montpelier France.

Eigenbrode, S. D., Nafus, M. G., Karasev, Landscape patterns of aphid vectored viruses of pea in the Palouse region of Idaho and Washington: implications for virus forecasting, 10th International Symposium on Plant Virus Epidemiology, Hyderabad India, Oct. 2007 (page 44 of proceedings of the conference).

Donovan, S., T. Hanson, C. Looney, Y. Sánchez-de León, T.D. Hatten, S.D. Eigenbrode, J. Johnson-Maynard, J.D. Wulfhorst, M. Jennings, S. Brunsfeld, and N.A. Bosque-Pérez. 2007. Beyond wheat: Using interdisciplinary research to develop conservation strategies on the Palouse. Proceedings Fifth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, May 16-19, 2007. http://www.ag.uidaho.edu/igert/semnevents.htm.

Toohey, R., M. Ramos, S. Donovan, E. Varón, E. Florian, A. Cárdenas, J. Jones, J. Boll, N.A. Bosque-Pérez, J.D. Wulfhorst, S.D. Eigenbrode, C. Harvey, D. Stoian, and L. Hilje. 2007. Integrating decision maker preferences and ecosystem services of coffee agroforestry systems within the Volcánica Central - Talamanca Biological Corridor, Costa Rica. Proceedings Fifth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, May 16-19, 2007. http://www.ag.uidaho.edu/igert/semnevents.htm.

Ngumbi, E., S.D. Eigenbrode, H. Ding, and N.A. Bosque-Pérez. 2007. The role of olfaction in behavioral responses of green peach aphid to Potato leaf roll virus-infected and non-infected potato plants. International Plant Virus Epidemiology Symposium, Hyderabad, India, October 15-19, 2007.

Looney, C., B. T. Caldwell, T. Hatten, C. Lorion, and S. D. Eigenbrode. 2006. Potential habitat factors influencing carrion beetle communities of Palouse prairie remnants. Proceedings of the 19th North American Prairie Conference, Madison, Wisconsin, August 8-12, 2004. Madison: University Communications, Madison,

WI. (D)

Hatten, T.D., S.D. Eigenbrode, N.A. Bosque-Pérez, S. Gebbie, F. Merickel, and C. Looney. 2006. Influence of matrix elements on prairie-inhabiting epigeal Curculionidae, Tenebrionidae, and Scarabaeidae in the Palouse: Is conservation tillage conservation biology? In: D. Egan and J. Harrington (eds). Proceedings of the 19th North American Prairie Conference. August 8-12, 2004, Madison: University Communications, Madison, WI. (D)

Donovan, S., T. Hanson, C. Looney, Y. Sánchez-de León, T.D. Hatten, S.D. Eigenbrode, J. Johnson-Maynard, J.D. Wulfhorst, M. Jennings, S. Brunsfeld, and N.A. Bosque-Pérez. 2006. Beyond wheat: Using interdisciplinary research to develop conservation strategies on the Palouse. Proceedings Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. http://www.ag.uidaho.edu/igert/semnevents.htm (D, T&L)

Toohey, R., M. Ramos, E. Varón, E. Florian, A. Cárdenas, S. Donovan, J. Jones, J. Boll, N.A. Bosque-Pérez, S.D. Eigenbrode, C. Harvey, L. Hilje, D. Stoian, and J.D. Wulfhorst. 2006. A multi-criterion analysis of the potential of coffee agroforestry systems to capitalize on environmental services (biodiversity, hydrological, and pest management) within a biological corridor in Costa Rica. Proceedings Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. http://www.ag.uidaho.edu/igert/semnevents.htm (D, T&L)

Eigenbrode, S.D., N.N. Kabalo, and J. Brown. 1998. Surface-wax variation effects on late-season pests of canola: potential of a glossy-wax gene for insect resistance breeding. *In: Proceedings of the Pacific Northwest Rapeseed/Canola Conference.*

Li, Q., K. Falk, and S.D. Eigenbrode. 1997. Effects of glucosinolates and their hydrolysis products on insect feeding. *In: Proceedings of the Pacific Northwest Rapeseed/Canola Conference*.

Eigenbrode, S.D., and A.M. Shelton. 1992. Potential for development of cultivars resistant to diamondback moth. *In: Diamondback moth and other crucifer pests: Proceedings of the Second International Workshop. AVRDC*. Tainan, Taiwan. pp. 65-74.

Eigenbrode, S.D., and A.M. Shelton. 1990. Behavioral basis of resistance to larvae of the diamondback moth in glossy leafed *Brassica*. *In*: *Proceedings of the Fifth Meeting of the Eucarpia Working Group on Breeding for Resistance to Insects and Mites*. IOBC Bulletin No. 13: 13-17.

Eigenbrode, S.D., A.M. Shelton, and M.H. Dickson. 1990. Extracts of resistant cabbage reduce survivorship of diamondback moth *In*: *Proceedings of the Fifth Meeting of the Eucarpia Working Group on Breeding for Resistance to Insects and Mites.* IOBC Bulletin No. 13: 18-21.

Eigenbrode, S.D., A.M. Shelton, and M.H. Dickson. 1988. Mechanisms of antibiotic resistance to the diamondback moth in cabbage breeding lines. *In*: *Proceedings of the Regional Workshop on IPM in Cabbage*, Pan American School of Agriculture, Tegucigalpa, Honduras.

Other Publications (total, 27):

Eigenbrode, S.D. D,Roberts, E, Bechinski, D. Husebye, A. Karasev, K.McPhee, B. Stokes 2013. Managing Risks of Virus Infections in Pulse Crops in the Palouse Region, WSU field days abstract

Crowley, S., Eigenbrode, S. D., O'Rourke, M., Wulfhorst, J.D. 2010 Cross-disciplinary localization: a philosophical approach. Multilingual. Web only article:
http://www.multilingual.com/downloads/114LCDR.pdf

Eigenbrode, S.D. and H. Ding. 2006. Pea aphid control, 2005, Arthropod Management Tests, Vol. 31

Eigenbrode, S.D. and H. Ding. 2005. Pea aphid control, 2004, Arthropod Management Tests, Vol. 30

Eigenbrode, S. D. 2002. Book Review: Attachment Devices of the Insect Cuticle. By Stanislav Gorb, 2001.

Entomologia Experiementalis et Applicata 105: 61-62.

Insecticides for Eigenbrode, S.D. and C.E. Rutledge. 1999. Attachment by insect predators to plant surface waxes: mechanisms and implications for biological control. Proceedings of the XIV International Plant Protection Congress, p. 127 (abstract)

Eigenbrode, S.D., and C.E. Rutledge. 1999. Can peas be bred to enhance biological control of insect pests? BIC/NDBC & NPIA Abstracts, p. 25 (abstract)

Li, Q., and S.D. Eigenbrode. 1999. Feeding and growth of two insect herbivores on several Brassica species varying in glucosinolate concentration and myrosinase activity. Ecological Society of America 1999 Annual Meeting Abstracts, p. 274 (abstract)

Rutledge, C.E., and S.D. Eigenbrode. 1999. A decrease in surface wax increases predator efficiency. Ecological Society of America 1999 Annual Meeting Abstracts, p. 302 (abstract)

Eigenbrode, S.D. and N.N. Kabalo. 1998. Principles and ecological implications of differential adhesion by an insect predator to surface waxes. International Society of Chemical Ecology, Abstracts of 15th Annual Meeting, p. 56 (abstract)

Li, Q. and S.D. Eigenbrode. 1998. Behavioral and physiological responses of two insect herbivores to variation in glucosinolates and myrosinase activity in *Brassica juncea*. International Society of Chemical Ecology, Abstracts of 15th Annual Meeting, p. 24, (abstract)

Eigenbrode, S.D. 1995. Manipulating the plant surface to enhance biological control. European Journal of Plant Pathology, Proceedings of the XIII International Plant Protection Congress, abs. No 434, (abstract)

Eigenbrode, S.D. and N.N. Kabalo. 1998. Behavior of *Chrysoperla plorabunda* and its effectiveness as a predator of *Plutella xylostella* on four surface-wax mutations of *Brassica.* IOBC Newsletter, Vol. 66.

White, C. and S.D. Eigenbrode. 1997. Slippery plant surfaces affect biological control. Midwest Biological Control News, Vol. IV, No. 6.

Eigenbrode, S.D., and C. White. 1997. Effects of surface wax variation on insects in peas. Crop Science Society meeting abstracts.

Eigenbrode, S.D. 1997. Surface wax mutations of peas and insect resistance. National Pea Improvement Association meeting abstracts, p. 12.

Eigenbrode, S. and J. Tipton. 1995. Pest resistance in redbud. *HortScience,* 30: 767 (abstract).

Eigenbrode, S.D., J.T. Trumble, W.G. Carson, and K.K. White. 1993. Susceptibility of fresh-market tomato varieties to insects. *Insecticide Acaricide Tests,* 18: 173-173.

Shelton, A.M., W.T. Wilsey, and S.D. Eigenbrode. 1991. Control of diamondback moth with MVP bioinsecticides compared to standard insecticides, 1990. *Insecticide and Acaricide Tests,* 16: 63.

Shelton, A.M., W.T. Wilsey, and S.D. Eigenbrode. 1991. Control of diamondback moth and cabbage looper on cabbage with *Bacillus thuringiensis* and in combination with permethrin, 1990. *Insecticide and Acaricide Tests,* 16: 62-63.

Barret, D.M., and S.D. Eigenbrode. 1990. Systat 5.0: new features and new problems. *Biotechnology Review.*

Shelton, A.M., W.T. Wilsey, and S.D. Eigenbrode. 1989. Control of DBM, 1988. *Insecticide and Acaricide Tests,* 14: 103-104.

Shelton, A.M., W.T. Wilsey, and S.D. Eigenbrode. 1989. Control of cabbage pests, 1988. *Insecticide and*

Acaricide Tests, 14: 103.

Eigenbrode, S.D. 1988. Review of 'Perspectives in chemoreception and behavior'. R.F. Chapman, E.A. Bernays, J.G. Stoffolano Jr. (eds.), *Bulletin of the New York Entomological Society,* 96(4): 487-489.

Eigenbrode, S.D., A.M. Shelton, and M.H. Dickson. 1988. Mechanisms of antibiotic resistance to the diamondback moth in cabbage. *Cruciferae Newsletter,* 14: 134-135.

Presentations and Other Creative Activities:

Invited Scholarly Presentations (total, 102):

Eigenbrode, S. D., 2013. Regional approaches to climate change in the Pacific Northwest. Environmental Law Society, University of Idaho Oct. 28.

Eigenbrode, S. D., 2013. Regional approaches to climate change in the Pacific Northwest. Department of Entomology, Washington State University, Pullman, Oct. 9.

Eigenbrode, S. D., Bosque-Pérez, N. A. 2013. Interdisciplinary research and graduate education to enhance regional resilience to global change: ongoing and future collaboration between CATIE and the University of Idaho. VII Henry A. Wallace Conference. CATIE, Turrialba Costa Rica, Oct. 3

Eigenbrode, S. D., O'Rourke, M. 2013. Toolbox workshop for the Genetic Engineering and Society IGERT. North Carolina State University, Raleigh, Oct. 20

Eigenbrode, S. D. 2013. Chemical ecology of aphid borne plant viruses. Department of Entomology, Purdue University, Raleigh, West Lafayette, IN, Oct. 24, Invited Seminar

Eigenbrode, S. D. 2013. Aphid responses to virus infected plants are dynamic. Department of Entomology, North Carolina State University, Raleigh, Oct. 21, Invited Seminar

Eigenbrode, S. D. Eigenbrode, S.D., Abatzoglou, J., 2013. Cereal leaf beetle and its parasitoid under future climates of the PNW. 97th Annual Meeting, Pacific Branch of the Entomological Society of America, Lake Tahoe, NV

Davis, T. S., Eigenbrode, S. D., Abatzoglou, J., Price, W. J. 2013. Climate drivers of aphid phenology and biogeography in the PNW. 97th Annual Meeting, Pacific Branch of the Entomological Society of America, Lake Tahoe, NV

Eigenbrode, S. D. 2013. Interdisciplinary collaboration, the REACCH project and the Toolbox Project, SESYNC, Annapolis MD, June 5- 2013

Eigenbrode, S.D. 2013 (panelist). Collaborations for climate change mitigation and adaptation. Association for International Agriculture and Rural Development, Annual Conference, Washington DC, June 2-5, 2013.

Eigenbrode, S.D. 2013. The chemical ecology of aphid-plant-virus pathosystems. Department of Entomology Invited Seminar, University of California, Davis, Davis CA, May 22, 2013

Eigenbrode, S.D. 2013. Plants, viruses and their aphid vectors: the chemical ecology of pathosystems. Cramer Series Lecture in Biology, Dartmouth College, Hanover NH, March 8, 2013

Eigenbrode, S.D. 2012. Climate change and insect pest management in cereal production systems of the inland PNW. Entomological Society of America Annual Meeting, Knoxville, TN, Nov. 11, 2012

Eigenbrode, S.D., N. A. Bosque-Pérez, E. Varon, M. Ramos 2012. Effects of on-farm botanical diversity and landscape context on insect pests in coffee agroforestry systems in Costa Rica. Entomological Society

of America Annual Meeting, Knoxville, TN, Nov. 14, 2012

Bosque-Pérez, N.A., L. Keesecker, **S.D. Eigenbrode**, E.H. Varón Devia, and M. Ramos Rodríguez. 2012. Ecologia de paisaje: Una útil perspectiva para los estudios entomológicos (Landscape ecology: A useful perspective for entomological research). 39th Congress of the Colombian Entomological Society (SOCOLEN). Ibague, Colombia, July 11-13, 2012. Invited keynote address. (A & I)

Bosque-Pérez, N.A., L.L. Ingwell, D. Rajabaskar, and **S.D. Eigenbrode**. 2012. Acquisition of plant viruses changes host plant preference of aphid vectors. XXIV International Congress of Entomology. Daegu, Korea, August 19-25, 2012. (D)

Eigenbrode, S. D., Adam, J., Carter A. C. Kruger, others. Panel discussion on climate research in the PNW. Northwest Climate Science Conference, 2012, NCC, 2 Oct (I)

Eigenbrode, S. D. 2012. Climate and Agriculture, WSU Crop and Soil Science Department 27 Feb, 2012 Eigenbrode, Climate and Agriculture (I)

Eigenbrode, S. D. 2012. Climate Change and Cropping Systems: Regional Approaches to Climate Change for PNW Agriculture WSCS – WWW – WERA, 12 July 2012, Pullman WA

Eigenbrode, S D. 2012. REACCH gets moving. Department of Geography, University of Idaho 11 Feb, 2012 (I)

Eigenbrode, S. D, 2012. Climate change and PNW agriculture. Palouse Summer Institute, Washington State University 10 May, 2012 (I)

Eigenbrode, S. D. Projected potential for cereal leaf beetle infestations with climate change in the Pacific Northwest Spokane Co. Crop Improvement, Nov. 23, 2011, Spokane WA (I)

Morton, L., T. Martin, **S. D. Eigenbrode**. 2012. The Architecture of Integration: Coordinated Agricultural Projects. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH (I)

Eigenbrode, S. D. 2011. Regional Approaches to Climate Change. Sustainablecorn.org, Chicago, IL, Nov. 9, 2011 (I)

Eigenbrode, S.D. 2012. REACCH gets moving. Pacific Northwest Direct Seed Association, Spokane, 9-Feb. (I)

Eigenbrode, S.D. 2012. REACCH gets moving. Larry Brannon Ag. Summit, Boise ID 21-Feb, 2012 (I)

Eigenbrode, S.D. 2012. Climate and Agriculture, Palouse Environmental Sustainability Coalition Mar-12, 2012, Moscow ID (I)

Eigenbrode, S. D, Climate change and agriculture. 2012. UI Retirees Luncheon, 11 Apr, 2012, Moscow ID (I)

Eigenbrode, S. D., 2012. REACCH overview. Annual Meeting of the PINEMap project, May 2012. Atlanta Georgia,(I)

Bosque-Perez, N., **S. D. Eigenbrode**. Insect research in the tropics. 5-Jul, CORPOICA, Nataimo Colombia (I)

Eigenbrode, S. D., D. R. Huggins, M. Walbridge, S. Shafer. Long term agricultural research projects in ARS and NIFA-funded projects, a partnership for sustainability. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH (I)

Eigenbrode, S. D., Bosque-Pérez, N. A. 2010. Aphid behavioral responses to virus-infected host plants: Variability among luteovirus pathosystems Annual Meeting of the Entomological Society of

America, Dec. 11-15, San Diego CA.

O'Rourke, M., **Eigenbrode. S.D.** 2010. The Toolbox Project: Enhancing Cross-Disciplinary Communication through Philosophical Dialogue Department of History, History, Culture & Society Brown Bag Series Dec 9, 2010, University of Idaho

Rapo, C, **Eigenbrode, S.D.**, Gaskin, J., Hinz, H., Schwarzländer, M. Schaffner, U. New tools to predict the host range of potential biocontrol agents of hoary cress. International Conference on Biocontrol for Nature 2010. Oct. 2010. Morgantown, WV.

Eigenbrode, S.D., N.A. Bosque-Pérez, M. Ramos, and E.H Varón. 2010. Effects of on-farm botanical diversity and landscape context on insect pests of coffee agroforestry systems. Agrobiodiversity in Mesoamerica: from genes to landscapes, the 6th Henry A. Wallace Inter-American Scientific Conference, CATIE, Turrialba, Costa Rica, 20-24 September 2010

Eigenbrode, S. D., M. O'Rourke. The Toolbox Project: Enhancing Cross-Disciplinary Communication through Philosophical Dialogue. ECCDR Conference, Coeur d'Alene ID. September 30-October 2, 2010

Huggins, D., **Eigenbrode, S.D**., Capalbo, S., Gessler, P., Gosz, J., Johnson-Maynard, J., Pan, W., Petrie, S., Wulfhorst, J.D. Planning a Long-Term Agricultural Project for Dryland Agroecosystems of the Inland Pacific Northwest. Pacific Northwest Direct Seed Association Meeting, Jan. 10, 2010, Kennewick WA

Eigenbrode, S. D. 2009. Chemical ecology of insect-vectored plant viruses. Department of Entomology, University of Florida, Gainesville, Sep. 17, 2009.

Eigenbrode S. D. Plant viruses and their aphid vectors: collision or collusion? WSU Entomology Colloquium, Jan 30, 2009.

Eigenbrode, S. D., and O'Rourke, M. "What we have is failure to communicate": philosophical dialogue in collaborations. Department of Natural Resources, Cornell University, Ithaca, New York, Sep. 9, 2008.

Eigenbrode, S. D. and O'Rourke, M. Exploring interdisciplinary divides. Biogeochemistry and Biocomplexity IGERT Retreat. Ithaca, New York. Sep. 6, 2008

Eigenbrode, S. D., Werner, B. Bosque-Pérez, N. Disease progression and the chemical ecology of *Potato leaf roll virus* in potato. International Society For Chemical Ecology, Aug. 20, 2008.

Eigenbrode, S. D., C. Rutledge. Predators on the "plantscape". International Congress of Entomology, Durban, South Africa, July 2008.

Eigenbrode, S. D., E. D. Varón, L. Hilje, and N. Bosque-Pérez. Effects of farm and landscape vegetational diversity on attack on coffee plants by leafcutting ants, International Congress of Entomology, Durban, South Africa, July 2008.

Eigenbrode, S. D. 2008. Chemical ecology of virus-vector-plant interactions, Oklahoma State EPSCOR, 7 March, 2008.

Eigenbrode, S. D. 2008. Chemical ecology of virus-vector-plant interactions, Department of Plant Pathology, Washington State University, Jan 2008.

Eigenbrode, S. D. 2007. "I think you should look at the predators": advice from a mentor. a tribute to Elizabeth Bernays. Annual Meeting of the Entomological Society of America, San Diego CA. Dec. 2007

Rutledge, C. E., **S. D. Eigenbrode**, 2007. Plant surfaces and coccinellid predators. Annual Meeting of the Entomological Society of America, San Diego CA. Dec. 2007

Eigenbrode, S. D., Nafus, M. G., Karasev, 2007. Landscape patterns of aphid vectored viruses of pea in the Palouse region of Idaho and Washington: implications for virus forecasting, 10th International Symposium on Plant Virus Epidemiology, Hyderabad India, Oct. 2007

Eigenbrode, S. D. 2007 Host manipulation by plant viruses: evidence from chemical ecology, Pennsylvania State University, Department of Entomology, 13 Sep. 2007

Eigenbrode, S. D Host manipulation by plant viruses: evidence from chemical ecology, Cornell University, Department of Entomology, 17 Sep. 2007

Eigenbrode, S. D. Host manipulation by plant viruses: evidence from chemical ecology, Cornell University, NYSAES, Geneva NY, Department of Entomology, 18 Sep. 2007

Eigenbrode, S. D. Interdisciplinary research and education at the University of Idaho. CAB International Switzerland, Oct. 2006

Eigenbrode, S. D. Insects and waxes. The extracellular plant matrix. Lausanne University, Lausanne, Switzerland. Oct. 2006

Eigenbrode, S. D. Clever luteoviruses: the host manipulation hypothesis in aphid-vectored viruses. Evolution of Disease Colloquium, Washington State University, Jan 2006

Eigenbrode, S. D. Virus induced volatiles and aphid behavior. Annual Meeting of the Pacific Branch of the Entomological Society of America. Maui, Hawai'I, March 2006

Eigenbrode, S. D. An expert's dilemma: personal views on science and being. University of Idaho Interdisciplinary Colloquium. Oct. 2005

Eigenbrode, S. D. Virus induced volatiles and the behavior of aphid vectors: Clever luteoviruses? S. D. Eigenbrode, Department of Entomology, Riverside, California, October 4, 2004.

Eigenbrode, S. D. Plant morphology at different spatial scales and insect-plant interactions, S.D. Eigenbrode, International Congress of Entomology, Brisbane, Australia, August 2004.

Eigenbrode, S. D., J.-M. Alvarez, N.A. Bosque-Pérez, Thomas M. Mowry, E.S. Jiménez-Martínez, B.J. Werner & R. Srinivasan Response of aphid vectors of plant viruses to volatiles from virus-infected plants/ International Congress of Entomology, Brisbane, Australia, August 2004.

Eigenbrode, S. D. Inter-institutional training for exploiting pheromones and kairomones in tropical agriculture, Symposium on Semiochemicals in Tropical Research, CATIE, March 25, 2004

Eigenbrode, S. D. Pheromones and kairomones for managing the sugar beet root maggot fly, Entomological Society of America National Meeting, Cincinnati, Ohio, October 2003.

Eigenbrode, S. D. Manipulating higher order interactions to improve biological control. S.D. Eigenbrode. USDA-ARS, Yakima Agricultural Research Laboratory, Wapato, Washington, September 12, 2002.

Eigenbrode, S. D. Plant surface waxes and biological control: Helping predators stick to it. S.D. Eigenbrode. Department of Entomology, Oregon State University, Corvallis, Oregon, January 31, 2002.

Eigenbrode, S. D. Plant surface waxes and insect ecology. S.D. Eigenbrode, Annual Meeting of the International Society of Chemical Ecology, Hamburg Germany, August 8, 2002.

Eigenbrode, S. D. Response of a virus vector to virus-induced changes in released volatile organic compounds from infected plants. Chemical Ecology Group, Free University of Berlin, 31 July 2002.

Eigenbrode, S. D. Plant waxes and insect ecology. Botanical Institute, Würzburg University, Wüzburg, Germany, 26 July 2002.

Eigenbrode, S. D. How insects achieve attachment to plant waxes. S.D. Eigenbrode. Max Planck Institute for Materials Research, Stuttgart Germany, 22 July 2002.

Hatten, T., **S. D. Eigenbrode**, N. Bosque-Pérez, and G. Chang. Tillage effects on ground beetles in the Palouse. Pacific Branch of the Entomological Society of America, Lake Tahoe, June 17, 2002.

Eigenbrode, S. D. Surface waxes and biological control. Oregon State University, Department of Entomology, February 27, 2002.

Eigenbrode, S. D. Insect attachment to leaf surfaces and its importance in ecology. Annual Meeting of the Society for Integrative Biology, Anaheim, California, January 4, 2002.

Eigenbrode, S. D. Manipulating plant morphology to improve biological control of aphids. Joint IPRI/WCC66 meeting, Fort Collins, Colorado, February 2000.

Rutledge, C. and **S.D. Eigenbrode**. Surface wax morphology and biological control: potential and challenges for cultivar development. Annual Meeting of the Entomological Society of America, Atlanta, Georgia, December 1999.

Eigenbrode, S. D. and C. E. Rutledge. Manipulating crop surface waxes to improve biological control. International Plant Protection Congress, Jerusalem, July 1999.

Eigenbrode, S. D. Epicuticular waxes and insect pest management. of Applied Insect Ecologists Annual Meeting, Santa Barbara, California, February 1999.

Eigenbrode, S. D. Where the rubber meets the road: plant waxes and predation. Annual Meeting of the Entomological Society of America, Informal Conference on Predators and Habitat, Las Vegas, Nevada, December 1998.

Eigenbrode, S. D.When surfaces matter: plant waxes and predators. University of Arizona, Insect Science Program, Tucson, Arizona, March 1998.

Eigenbrode, S. D.Higher order interactions and plant surface waxes. Department of Entomology, University of Maryland, College Park, Maryland, April 1997.

Eigenbrode, S. D. How plant waxes influence insects. Symposium of the Working Group on Plant Stress, Würzburg University, Würzburg, Germany, March 1997.

Surface wax morphology and entomophagous insects. S.D. Eigenbrode. 1997. Annual Meeting of the Entomological Society of America, Nashville, Tennessee, 1997.

Eigenbrode, S. D. Plant genetic resources for the study of plant and insect interactions. International Congress of Entomology, Florence, Italy, July 1996.

Eigenbrode, S. D. Plant waxes and insect behavior. KEYNOTE ADDRESS, Plant Cuticles, Society for Experimental Biology and British Ecological Society Meetings, Lancaster, England, March 1996.

Eigenbrode, S. D. Engineering tritrophic interactions by manipulating plant surfaces. XIII International Congress on Plant Protection, The Hague, The Netherlands, July 1995.

Eigenbrode, S. D. From genes to tritrophic interactions, managing insect ecology in crops. Agriculture Canada and the University of Manitoba, September 1994.

Eigenbrode, S. D. Surface lipids in *Brassica* influence generalist predators. Center for Insect Science

Hexapodium, University of Arizona, Tucson, September 1994.

Eigenbrode, S. D. Managing insect pests by manipulating leaf surface waxes of crops. S Dept. of Entomology, Texas A&M University, March 21, 1994.

Eigenbrode, S. D. S.S. Quisenberry and F.M. Davis/ The modalities of PRI. Panel discussion, International Plant Resistance to Insects- 11th Biennial Workshop. Stillwater, Oklahoma, March 1994.

Hare, J.D. and **S.D. Eigenbrode.** 1993. Integrating tolerant crop varieties into pest management.. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana, December 1993.

Eigenbrode, S. D. and J. Trumble. The use and value of plant resistance in integrated pest management of vegetables. Nelson Memorial Symposium, Annual Meeting of the Entomological Society of America, December 1992.

Eigenbrode, S. D.Plant resistance and the leaf surface in two vegetable crop systems. University of Arizona, Tucson, Depts. of Entomology and Plant Biology, November 1992.

Eigenbrode, S. D.Plant resistance and the leaf surface in *Brassica* and *Lycopersicon*. Entomology Department Seminar, University of California, Riverside, April 1992.

Eigenbrode, S. D. Integration of plant resistance into insect pest management of vegetables. Formal Conference on Vegetable Entomology at the Annual Meeting of the Entomological Society of America, December 1991.

Shelton, A. M. J.L Robertson, **S.D. Eigenbrode**. 1991. Variation in susceptibility of 11 diamondback moth populations to Dipel. Southeastern Branch Entomology Society of America, 1991.

Eigenbrode, S. D. Insect resistance and the plant surface. 1991. Dekalb Plant Genetics Research Group. Groton Conn., August 1991.

Eigenbrode, S. D. Status of breeding programs for resistance to Lepidoptera in cabbage. 1990. Sixth International Crucifer Genetics Workshop, Ithaca, New York, 1990.

Shelton, A. M., S. D. Eigenbrode. Diamondback Moth: insecticide resistance and host plant resistance. Southeastern Branch Meeting of the Entomological Society of America, 1990.

Eigenbrode, S. D. 1990. Mechanisms of resistance to diamondback moth in cabbage and potential for development of cultivars. Second International Conference on Diamondback Moth Management, Tainan, Taiwan, 1990.

Eigenbrode, S. D. 1990. Resistance mechanisms to diamondback moth in cabbage. Univ. of Arkansas, Fayetteville, Arkansas, Spring 1990.

Eigenbrode, S. D. 1990. Resistance Mechanisms to diamondback moth in cabbage. Oregon State Univ., Corvallis, Oregon, Spring 1990.

Eigenbrode, S. D., A.M. Shelton and M.H. Dickson. Extracts of resistant cabbage reduce survivorship of diamondback moth. 1989. Fifth Meeting of the Eucarpia Working Group on Breeding for Resistance to Insects and Mites, Morges, Switzerland, September 1989.

Eigenbrode, S. D., A.M. Shelton. 1989. Behavioral basis of resistance to larvae of the diamondback moth in glossy leafed *Brassica* Fifth Meeting of the *Eucarpia* Working Group on Breeding for Resistance to Insects and Mites, Morges, Switzerland, September 1989.

Eigenbrode, S. D. 1988. Mechanisms of antibiotic resistance to diamondback moth in cabbage. Regional Conference on IPM in Cabbage, Tegucigalpa, Honduras, C.A., 1988.

Eigenbrode, S. D. 1985. The politics of agricultural conservation. Ithaca College, 1985 and 1986, guest of Professor Jake Ryan.

Submitted Oral Presentations:

Huggins, D.R., Richard Rupp, Paul Gessler, William Pan, David J Brown, Stephen Machado, Von Patrick Walden, Sanford Eigenbrode, John T Abatzoglou. Dynamic Agroecological Zones for the Inland Pacific Northwest, USA. American Geophysical Union Meeting, Dec. 9, 2011, San Francisco, CA5

Ingwell, Laura L., Nilsa A. Bosque-Perez, Lana Unger, Sanford D. Eigenbrode, University of Idaho. Viruliferous and nonviruliferous bird-cherry oat aphids exhibit differential responses to Barley yellow dwarf virus-infected plants Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Husebye, D., Eigenbrode, S. D. Mapping disease in the Palouse pea aphid (Acyrthosiphon pisum (Harris)) pathosystem, Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Park, I., M. Schwarzlaender, S. D. Eigenbrode. Assessing olfactory and visual cues in host selection behavior to improve pre-release host range prediction of *Mogulones borraginis* (Coleoptera: Curculionidae) for houndstongue, *Cynoglussum officinale* (Boraginaceae), University of Idaho. Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Parker, J., W. Snyder, S. D. Eigenbrode. Going too far? Trap crop distance and flea beetle control Annual Meeting of the Entomological Society of America Nov. 11, 2011, Reno NV

Eigenbrode, S. D. et al. (20 authors). Regional Approaches to Climate Change. Annual Meeting of the Entomological Society of America Nov. 11, 2011, Reno NV

Eigenbrode, Sanford D., John Abatzoglou. Projected potential for cereal leaf beetle infestations with climate change in the Pacific Northwest, Annual Meeting of the Entomological Society of America Nov. 11, 2011, Reno NV

Eigenbrode, Sanford D. et al. (20 authors) Regional Approaches to Climate Change for Inland Pacific Northwest Cereal Production Systems American Geophysical Union Annual Meeting, San Francisco CA, Dec. 5, 2011

Huggins, D. R. Richard Rupp; Paul Gessler, William Pan, David J. Brown, Stephen Machado, Von P. Walden, Sanford Eigenbrode, John T. Abatzoglou, Agricultural Mapping, Monitoring, and Data Visualization for a Changing Global Environment, AGU, Dec. 5 2011,

Carole B. Rapo, Hariet Hinz, Sanford D. Eigenbrode, John Gaskin, Urs Schaffner, William Price, Mark Schwarzlaender, Metabolic profiling: a new tool in the prediction of host-specificity in classical biological control of weeds? Entomological Society of America, 16 Nov. 2011

Eigenbrode, Sanford D. REACCH gets moving. Larry Brannon Ag. Summit, Boise ID 21-Feb (I)

Eigenbrode, Sanford D. Climate and Agriculture, Palouse Environmental Sustainability Coalition Mar-12, 2012, Moscow ID (I)

Roberts, D. E., S. Eigenbrode, D. Husebye, B. Stokes, and E. Bechinski. 2012. An early-warning system for viruliferous aphid infestations of pulse crops in the Palouse region of the Inland Pacific Northwest, USA. Abstracts from the 7th International IPM Symposium, P. 121. March 27 – 29. Memphis, TN. Available at http://www.ipmcenters.org/ipmsymposium12/125_Roberts.pdf

Eigenbrode, S. D. REACCH overview. Western Crop Science Society, 12-Jul, 2012, Pullman WA

Eigenbrode, S. D., Abatzoglou, J., Effects of projected climate change on the phenology of the cereal leaf beetle and its parasitoid, *Tetrastichus julis*. Sustainable Corn Annual Meeting, Wooster OH, 8 Aug, 2012 (I)

Eigenbrode, S. D. REACCH overview. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH

Eigenbrode, S. D., D. R. Huggins, M. Walbridge, S. Shafer. Long term agricultural research projects in ARS and NIFA-funded projects, a partnership for sustainability. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH (I)

Morton, L., T. Martin, S. D. Eigenbrode. The Architecture of Integration: Coordinated Agricultural Projects. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH (I)

Huggins, D. R., S. D. Eigenbrode et al. Dynamic Agroecological Zones for the Inland Pacific Northwest, USA. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH.

Pan W., et al., Wheat-Based Cropping System Strategies for Mitigating and Adapting to Climate Change ASA-CSSA-SSSA International Annual Meetings Oct 22, 2012, Cincinnati, OH.

Huggins D. R. et al. Linkages Among C, N and Water footprints in wheat-based cropping systems. ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH.

Clayton, L., Ed Bechinski, S. D. Eigenbrode, D. Husebye, A. Karasev, D. Roberts, B. Stokes, T. Young. Online IPM Decision Support Tools For Cool-Season Legume Growers National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, 15-July, Charleston SC.

Johnson-Maynard, J. K. Wolf, J. Velez, S. D. Eigenbrode, 2012. Agriculture and Natural Resources Science for Climate Variability and Change: Transformational Advancements in Research, Education and Extension ASA-CSSA-SSSA International Annual Meetings - Oct 21-24, Cincinnati, OH.

Johnson-Maynard, J.L., K. Wolf, J. Velez, E. Corwine, T. White, and S.D. Eigenbrode. 2012. Improving Student and Teacher Knowledge of Climate Change and Agricultural Science in the Inland Pacific Northwest. Annual Meeting of the American Society of America, Oct. 21-24, 2012. Cincinnati, OH.

Lindzey, S. H., Eigenbrode, S. D., Snyder, W. E., Meadow R., Metais, P., Regional differences in flea beetle response to trap cropping in Northern Idaho and Southeastern Norway. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Mondal, S., Wenninger, E. J., Hutchinson, P.J.S., Eigenbrode, S. D. Bosque□Pérez, N.A., Shrestha, D. Whitworth, J. Studies on the virus□vector relationships of different isolates of Potato Virus Y strains and their three aphid vectors on potato. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Dheivasigamani, R., Wu, Y., Bosque-Pérez, N. A., Eigenbrode, S. D. Dynamics of arrestment of green peach aphid Myzus persicae by volatiles from Potato leaf roll virus-infected potato plants during disease progression. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Husebye, D., Eigenbrode, S. D., Clement, S. D. Using disease mapping to develop a virus disease management strategy for two plant viruses in the Palouse region of the Pacific Northwest. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Eigenbrode, S. D., Abatzoglou, J. Effects of projected climate change on the phenology of wheat and the cereal leaf beetle. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Dynamic Agroecological Zones for the Inland Pacific Northwest, USA David Rhys Huggins, Richard Rupp, Paul Gessler, William Pan, David J Brown, Stephen Machado, Von Patrick Walden5, Sanford Eigenbrode6, John T Abatzoglou. American Geophysical Union Meeting, Dec. 9, 2011, San Francisco, CA5

Viruliferous and nonviruliferous bird-cherry oat aphids exhibit differential responses to Barley yellow dwarf virus-infected plants Laura L. Ingwell, University of Idaho ; Nilsa A. Bosque-Perez, University of Idaho ; Lana Unger, University of Idaho ; Sanford D. Eigenbrode, University of Idaho. Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Damon Husebye, Eigenbrode, S. D. Mapping disease in the Palouse pea aphid (*Acyrthosiphon pisum* (Harris)) pathosystem Damon Husebye, University of Idaho. Annual Meeting of the Entomological

Society of America, Nov. 11, 2011, Reno NV

Assessing olfactory and visual cues in host selection behavior to improve pre-release host range prediction of *Mogulones borraginis* (Coleoptera: Curculionidae) for houndstongue, Cynoglussum officinale (Boraginaceae) Ikju Park, University of Idaho ; Mark Schwarzlaender, University of Idaho ; Sanford Eigenbrode, University of Idaho. Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Joyce E. Parker, Washington State University ; William E. Snyder, Washington State University ; Sanford D. Eigenbrode, University of Idaho Going too far? Trap crop distance and flea beetle control. Annual Meeting of the Entomological Society of America, Nov. 11, 2011, Reno NV

Jain, Shalu, Kasia Kinzer, Sanford Eigenbrode, Kevin McPhee Screening of Lentil Germplasm for Pea Enation Mosaic Virus (PEMV), North Dakota EPSCoR

Vemulapati, B., Druffel, K. L., Eigenbrode, S. D., Karasev, A, and H. R. Pappu. 2009. Antigen-coated Plate ELISA Assays for Rapid and Reliable Detection of Two Members of Luteoviridae: Pea enation mosaic virus (genus Enamovirus) and Bean leafroll virus (genus Luteovirus). WLPGA meeting, 9th December, Moscow, ID.

Vemulapati, B., Druffel, K. L., Eigenbrode, S. D., Karasev, A, and H. R. Pappu. 2010. Molecular characterization and ELISA based detection of Bean leafroll virus and Pea enation mosaic virus from the Pacific Northwestern U.S.A. APS annual meeting, 7-11th August, Charlotte, NC.

Elbakidze, L. Liang Lua, Eigenbrode, S. D. Evaluating vector-virus-plant interaction in regional supply of peas and lentils: a limited dependent variable analysis. Agricultural & Applied Economics Association 2010 AAEA, CAES, & WAEA Joint Annual Meeting, Denver, Colorado, July 25-27, 2010

Husebye, D. S., S.D. Eigenbrode, E.Bechinksi, Alex V. Karasev, Stephen L. Clement, Bhadramurthy Vemulapati, Hanu PappuHusebye, D. Monitoring and Forecasting Virus Diseases In Legumes in the Palouse Region of the Inland Pacific Northwest, USA. Joint Meetings Plant Virus Epidemiology Symposium and Plant Virus Ecology Network. Ithaca, New York, June 20-24, 2010. Poster presentation.

Stokes, B.S., Bechinski, E.J., and Eigenbrode, S.D. Economic Injury Levels for Pea Aphid on Dry Peas. Entomological Society of America Pacific Branch Conference. Boise, Idaho. April 12, 2010. 10-minute graduate student paper competition.

Stokes, B.S., Bechinski, E.J., and Eigenbrode, S.D. Viruliferous Aphid Damage During Specific Growth Stages of Dry Peas. Entomological Sociey of America National Conference. San Diego, California. December 12-15, 2010. Graduate student poster competition. (2nd place)

Jain, S. Eigenbrode, S. and McPhee, K. A gene based marker set for linkage group I of pea (Pisum sativum L.)". Plant and Animal Genome Conference XIX, San Diego, California, US on Jan 15-19, 2011.

Clement, S., Eigenbrode, S.D., Husebye, D. Pea Aphid Outbreak Cycles in the U.S. Pacific Northwest, Annual Meeting of the Entomological Society of America, Indianapolis Indiana, Dec. 12-15, 2009

Husebye, D., Eigenbrode, S.D., Clement. S. Forecasting and monitoring pea aphid (Acyrthosiphon pisum) pressure on the Palouse. Annual Meeting of the Entomological Society of America, Indianapolis Indiana. Dec. 12-15, 2009

Northfield, T., Snyder, W. E., Snyder, G., Eigenbrode, S. D. A simple plant mutation triggers a predator-diversity trophic cascade. 2010. Annual Meeting of the Entomological Society of America, Dec. 11-15, San Diego CA.

Lindzey S., Eigenbrode, S. D., Parker, J., Snyder, W. E. 2010. Spatial and behavioral responses of crucifer flea beetle (*Phyllotreta cruciferae*) to a trap crop scheme in northern Idaho. Annual Meeting of the Entomological Society of America, Dec. 11-15, San Diego CA.

Rapo, C., Eigenbrode, S. D., Hinz, H., Price, W., Schafner, U., Schwarzlaender, M. 2010. Metabolic profiling: a new tool in the prediction of host-specificity in classical biological control of weeds? Annual Meeting of the Entomological Society of America, Dec. 11-15, San Diego CA.

Parker, J., Snyder, W. E., Eigenbrode, S.D. 2010. Comparing simple versus diverse trap crops for control of the crucifer flea beetle (Phyllotreta cruciferae). Annual Meeting of the Entomological Society of America, Dec. 11-15, San Diego CA.

Ingwell, L.L., N.A. Bosque-Pérez, L.M. Unger, H. Ding, A.V. Karasev, and S.D. Eigenbrode 2010. Bird cherry-oat aphid behavior in response to *Barley yellow dwarf virus* disease infection of wheat. Joint Meetings Plant Virus Epidemiology Symposium and Plant Virus Ecology Network. Ithaca, New York, June 20-24, 2010. Poster presentation.

Rapo C. B., Eigenbrode S. D., Hinz, H. L., Schaffner, U., Price, W. J., Schwarzlaender, M. Metabolic profiling analysis: a new tool in the prediction of host-specificity in classical biological control? Annual Meeting of the W2185, Coeur D'Alene Idaho, Oct. 26, 2010.

Rapo C. B., Eigenbrode S. D., Hinz, H. L., Schaffner, U., Price, W. J., Schwarzlaender, M. Metabolic profiling analysis: a new tool in the prediction of host-specificity in classical biological control? CABI Seminar Series Aug. 2010

Bosque-Pérez, N.A., L.P. Waits, J.E. Force, S.D. Eigenbrode, J.D. Wulfhorst, P. Morgan, B. Finegan, F. De Clerck, D. Stoian and J. Jones. 2010. Bridging the disciplinary divide: Lessons learned from the University of Idaho-CATIE IGERT. International Conference on Enhancing Communication in Cross-Disciplinary Research. Coeur d'Alene, Idaho. September 30-October 2, 2010. Panel presentation.

Clement, S., Eigenbrode, S.D., Husebye, D. Pea Aphid Outbreak Cycles in the U.S. Pacific Northwest, Annual Meeting of the Entomological Society of America, Indianapolis Indiana, Dec. 12-15, 2009

Eigenbrode, S. D., Klowden, M. J. Hongjian Ding. Changes in cuticular hydrocarbons associated with mating in female *Anopheles gambiae*. Annual Meeting of the Entomological Society of America, Indianapolis Indiana. Dec. 12-15, 2009

Husebye, D., Eigenbrode, S.D., Clement. S. Forecasting and monitoring pea aphid (Acyrthosiphon pisum) pressure on the Palouse. Annual Meeting of the Entomological Society of America, Indianapolis Indiana. Dec. 12-15, 2009

Parker, Joyce, Eigenbrode, S. D., Snyder, W.S. Trap cropping flea beetles with diverse and monoculture trap crops. Annual Meeting of the Entomological Society of America, Indianapolis Indiana. Dec. 12-15, 2009

Ding, H., Eigenbrode, S. D. Volatile profile of four potato varieties and the behavioral response of green peach aphid *Myzus persica*e (Sulzer). Annual Meeting of the Pacific Branch of the Entomological Society of America, April 11-14, Boise ID

Lindzey, S., Eigenbrode, S. D. Birch. A.N.E., Snyder, W., Parker, J. Expanding theory in push-pull manipulations of pestiferous insects. Annual Meeting of the Pacific Branch of the Entomological Society of America, April 7-10

Ingwell, L.L., N.A. Bosque-Pérez, L.M. Unger, H. Ding, A.V. Karasev, and S.D. Eigenbrode 2010. Bird cherry-oat aphid behavior in response to Barley yellow dwarf virus disease infection of wheat. Annual Meeting of the Pacific Branch of the Entomological Society of America, April 7-10

Hatten, T.D, Looney, C., Strange, J.P. Griswold, T., Eigenbrode, S.D., Bosque-Pérez, N.A. Pollinators of Palouse prairie: survey of native bee fauna in a fragmented ecosystem. Annual Meeting of the Pacific Branch of the Entomological Society of America, April 7-10

Eigenbrode, S.D., Capalbo, S., Gessler, P., Gosz, J., Huggins. D., Johnson-Maynard, J. Kok, H. Pan, W., Petrie, S., Wulfhorst, J.D. Planning a Long-Term Agricultural Project for Dryland Agroecosystems of the Inland Pacific Northwest. Western Pea and Lentil Growers' Association Meeting, Dec. 9, 2009, Moscow ID

Eigenbrode, S. D., Nafus, M. G., Karasev, 2007. Landscape patterns of aphid vectored viruses of pea in the Palouse region of Idaho and Washington: implications for virus forecasting, Annual Meeting of the Entomological Society of America, San Diego, CA, Dec. 2007.

Toohey, R., M. Ramos, E. Varón, S. Donovan, J. Jones, E. Florian, A. Cárdenas, C. Harvey, J.D. Wulfhorst, J. Boll, N.A. Bosque-Pérez, S.D. Eigenbrode, B. Finegan, D. Stoian, and L. Hilje. 2007. A multi-criteria conservation plan to capitalize on environmental services (biodiversity, watershed, and pest management) and socioeconomic benefits provided by coffee agroforestry systems within the Volcánica Central Talamanca Biological Corridor, Costa Rica. International Meeting on Multi-Strata Agroforestry Systems with Perennial Crops: Making Ecosystem Services Count for Farmers, Consumers and the Environment, Centro Agronómico Tropical de Investigación y Enseñanza (CATIE), Turrialba, Costa Rica. Sept. 17-21, 2007.

Varón, E.H., L. Hilje, S.D. Eigenbrode, N.A. Bosque-Pérez, J. Jones, and P Morgan. 2007. Distribución y herbivoría por la hormiga cortadora de hojas, Atta cephalotes L. (Himenóptera: Formicidae), en plantaciones de café en Costa Rica. (Distribution and herbivory by the leaf-cutting ant Atta cephalotes in coffee plantations in Costa Rica). XXXIV Congreso de la Sociedad Colombiana de Entomología, Cartagena de Indias, Colombia, July 25-27, 2007. (D)

Donovan, S. C. Looney, T. Hanson, Y. Sánchez de León, J.D. Wulfhorst, S. Eigenbrode, M. Jennings, J. Johnson-Maynard, and N.A. Bosque-Pérez. 2007. Linking social and biophysical conservation perspectives in an endangered ecosystem: the Palouse as a model. Fifth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, May 16-19, 2007. (D/ T & L)

Ramos, M., N. A. Bosque-Pérez, C. Godoy, L. Hilje, and S.D. Eigenbrode. 2007. The effect of local and landscape context on leafhopper communities in Turrialba, Costa Rica coffee farms. Fifth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, May 16-19, 2007. (D)

Toohey, R. M. Ramos, E. Varon, S. Donovan, E. Florian, A. Cardenas, J. Jones, J. Boll, N.A. Bosque-Pérez, S. Eigenbrode, C. Harvey, L. Hilje, D. Stoian, and J.D. Wulfhorst. 2007. A multiple criteria analysis of coffee agroforestry systems to promote environmental services and socioeconomic livelihoods within the Volcanica Central Talamanca Biological Corridor, Costa Rica. Fifth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, May 16-19, 2007. (D / T & L)

Ramos, Mariangie, N. A. Bosque-Pérez, C. Godoy, L. Hilje. The effect of local and landscape context on leafhopper communities (Homoptera: cicadellidae) in coffee farms. Entomological Society of America Pacific Branch Annual Meeting, Portland, Oregon, March 25-28, 2007.

Ngumbi, E., S. D. Eigenbrode, N. A. Bosque-Pérez. *Rhopalosiphom padi* responses to volatile organic compounds from *Barley yellow dwarf virus-infected wheat plants.* Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Hanavan, R. P. N. A. Bosque-Pérez, S. D. Eigenbrode and D. J. Schotzko. Influence of tillage system on emergence of the pea leaf weevil *Sitona lineatus* L. (Coleoptera: Curculionidae). Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Nafus, M. and S. D. Eigenbrode. Incidence of pea enation mosaic virus and bean leaf roll virus oin dry pea

in the Palosue region. Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Looney, C., Eigenbrode, S. D. The conservation value of persistent native plants in an agricultural landscape. Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Looney, C., S. D. Eigenbrode. The conservation benefit of an orphaned shrub on the Palouse and the impact of landscape context in a highly fragmented ecosystem Annual Meeting Entomological Society of America, Indianapolis, Indiana, Dec. 9-13, 2006.

Donovan, S., C. Looney, T. Hanson, Y. Sanchez de León, T.D. Hatten, J.D. Wulfhorst, M. Jennings, S.D. Eigenbrode, J. Johnson-Maynard, S. Brunsfeld, and N.A. Bosque-Pérez. 2006. Beyond wheat: Using interdisciplinary research to develop conservation strategies in the Palouse landscape. International Symposium on Society and Natural Resource Management, Vancouver, Canada, June, 2006. (D/ T&L)

Jiménez-Martínez, E.S., N.A. Bosque-Pérez, S.D. Eigenbrode, and K.J. Medina-Ortega. 2006. Behavioral responses of non-viruliferous Rhopalosiphum padi alates to transgenic and non-transformed wheat plants infected and non-infected with BYDV. Workshop for the Norman E. Borlaug International Agricultural Science and Technology Fellows Program for Central America, CATIE, Turrialba, Costa Rica, January 19–20, 2006. (D)

Eigenbrode, S. D. Insects and the extracellular plant matrix. Plant Extracellular Matrix: Biosynthesis and Function, Lausanne Switzerland, 12-13 October 2006 (Invited by the Lausanne University and the Swiss Govt.) (Invited) (D).

Eigenbrode, S. D. The international interdisciplinary programs at the University of Idaho, 10 Oct. 2006, CAB International, Swiss Center. (Invited by CABI) (T&L).

Sanchez-de León, Y., S. Donovan, C. Looney, T. Hanson, T. D. Hatten, J. Johnson-Maynard, J.D. Wulfhorst, S.D. Eigenbrode, S. Brunsfeld, and N.A. Bosque-Pérez. 2006. Using interdisciplinary research to develop conservation strategies in the Palouse landscape. NSF-IGERT Principal Investigators Annual Workshop. Washington, DC, May14-16, 2006. (D/ T&L)

Srinivasan, R., J.M. Alvarez, N.A. Bosque-Pérez, and S.D. Eigenbrode. 2006. Influence of hairy nightshade, Solanum sarrachoides on Potato leafroll virus disease spread. Entomological Society of America Pacific Branch Annual Meeting. Maui, Hawaii, March 5-8, 2006. (D)

Varón, E., S.D. Eigenbrode, N.A. Bosque-Pérez, L. Hilje, J. Jones, and P. Morgan. 2006. Effect of coffee farm diversity on harvesting of coffee by the leaf-cutting ant Atta cephalotes. Entomological Society of America Pacific Branch Annual Meeting. Maui, Hawaii, March 5-8, 2006. (D) (Invited)

Eigenbrode, S.D., Ngumbi, E. , Ding, H., Mowry, T. M. Rodriguez, A., Werner. B. 2006. Response of *Myzus persicae* to Potato Volatiles: Deciphering the

Effects of *Potato Leaf Roll Virus* Infection. Entomological Society of America Pacific Branch Annual Meeting. Maui, Hawaii, March 5-8, 2006. (D) (Invited)

Wulfhorst, J.D., N.A. Bosque-Pérez, J.E. Force, L. Waits, S.D. Eigenbrode, B. Finegan, J. Jones, D. Stoian, C. Harvey, P. McDaniel, J. Boll, and S. Brunsfeld. 2006. The CATIE / University of Idaho partnership in interdisciplinary graduate education. Seminar and discussion on Conserving native biodiversity in human-dominated landscapes in the Mesoamerican hotspot; a synthesis of knowledge and agenda for science-based action. World Wildlife Fund Headquarters Washington, D.C., September 26, 2006. (T&L).

Eigenbrode, S. D. Coevolution of plant viruses and their vectors. Evolution of Disease Seminar Series at Washington State University, Jan. 2006. Invited by the organizers (D)

Guy, S.O., N.A. Bosque-Pérez, S.D. Eigenbrode, and J. Johnson-Maynard. 2006. Assessing the impact of no-till (NT) and conventional-till (CT) on crop, variety, soil, insect and disease response (years 1-3 and 3-6). STEEP Research Review and Strategic Planning Meeting, Pasco, Washington, February 22-24, 2006. (A&I)

Hanavan, R.P., N.A. Bosque-Pérez, and S.D. Eigenbrode. 2006. Assessment of *Sitona* spp. in diverse elements of the Palouse landscape. Second Annual Palouse Behavior, Ecology and Evolution Research Symposium, Pullman, Washington, April 30, 2006. (D)

Hatten, T., N.A. Bosque-Pérez, S. Gebbie, S. D. Eigenbrode. 2006. Countryside biogeography and the matrix: Is conservation-tillage conservation biology? STEEP Research Review and Strategic Planning Meeting, Pasco, Washington, February 22-24, 2006. (Poster presentation). (A&I)

Johnson-Maynard, J., N.A. Bosque-Pérez, S.D. Eigenbrode, and T. Hatten. 2006. Examination of tillage factors, crop type, soils and non-crop habitat upon soil fauna and ground dwelling predators in a small inland PNW watershed. STEEP Research Review and Strategic Planning Meeting, Pasco, Washigton, February 22-24, 2006. (A&I)

Newcombe, G., Raghavendra, A.K., Shipunov, A., Anderson, C., Ding, H., Eigenbrode, S.D. Prather, T., Schwarzlaender, M. Fungal endophytes in spotted knapweed: Do they affect its invasiveness? Meeting the Challenge of Invasive Species, University of Washington in September 2006. (D)

Bosque-Pérez, N.A. 2006. Development of resistant wheat cultivars for management of Hessian fly in northern Idaho. Idaho Wheat Commission Research Review, Boise, Idaho, February 2006. (A&I)

Bosque-Pérez, N.A., J.E. Force, L. Waits, S.D. Eigenbrode, B. Finegan, J. Jones, D. Stoian, C. Harvey, J.D. Wulfhorst, P. McDaniel, J. Boll, and S. Brunsfeld. 2006. An interdisciplinary model of graduate education in conservation biology and sustainable production. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (T&L)

Bosque-Pérez, N.A., S.D. Eigenbrode, J.E. Force, L. Waits, B. Finegan, C. Harvey, J. Jones, D. Stoian, J. Boll, S. Brunsfeld, P. McDaniel, M. O' Rourke, and J.D. Wulfhorst. 2006. Lessons from an interdisciplinary team-based Ph.D. program in sustainable production and conservation biology at the University of Idaho and CATIE. 48th Annual Idaho Academy of Science Meeting and Symposium, Moscow, Idaho, March 23-25, 2006. (Invited oral presentation). (T&L)

Dahlquist, R., C. Lorion, B. Polidoro, J. Schipper, L. Winowiecki, M. Whelan, S. Candela, N.A. Bosque-Pérez, J. Braatne, P. McDaniel, M. Morra, J.M. Scott, C. Harvey, L. Hilje, E. Somarriba, E. Carrillo, and L. Castillo. 2006. Biodiversity conservation and sustainable production in Talamanca, Costa Rica. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (D / T&L)

Dahlquist, R., L. Hilje, and N.A. Bosque-Pérez 2006. Local management and pest status of the banana weevil (Cosmopolites sordidus) in Talamanca, Costa Rica. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (Poster presentation). (A&I)

Donovan, S., T. Hanson, C. Looney, Y. Sanchez de León, T.D. Hatten, N.A. Bosque-Pérez, S. Brunsfeld, S.D. Eigenbrode, J. Johnson-Maynard, and J.D. Wulfhorst. 2006. The Palouse: Social and biophysical perspectives of a fragmented ecosystem. 48th Annual Idaho Academy of Science Meeting and Symposium, Moscow, Idaho, March 23-25, 2006. (D / T&L)

Eigenbrode, S.D., M.O'Rourke, D. Althoff, C. Goldberg, K. Merrill, W. Morse, M. Nielsen-Pincus, J. Stephens, L. Winowiecki, J.D. Wulfhorst, and N.A. Bosque-Pérez. 2006. Philosophical dialogue as a tool for success in interdisciplinary research. 48th Annual Idaho Academy of Science Meeting and Symposium, Moscow, Idaho, March 23-25, 2006. (T&L)

Florian, E., C.M. Porras, M. Ramos, R. Toohey, E. Varón, J. Boll, N.A. Bosque-Pérez, S.D. Eigenbrode, C. Harvey, L. Hilje, J. Jones, and G. Soto. 2006. Characterization and distribution of coffee agroforestry systems within the Turrialba - Jimenez Biological Corridor, Costa Rica. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (Poster presentation). (A&I)

Hatten, T., N.A. Bosque-Pérez, S. Gebbie, S. D. Eigenbrode. 2006. Countryside biogeography and the matrix: Is conservation-tillageconservation biology? 48th Annual Idaho Academy of Science Meeting and Symposium, Moscow, Idaho, March 23-25, 2006. (Poster presentation). (A&I)

Looney, C., S. Donovan, Y. Sanchez de León, T. Hanson, T.D. Hatten, S.D. Eigenbrode, J. Johnson-Maynard, J.D. Wulfhorst, M. Jennings, S. Brunsfeld, and N.A. Bosque-Pérez. 2006. Beyond wheat: Using interdisciplinary research to develop conservation strategies on the Palouse. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (D / T&L)

Merrill, K., M. O'Rourke, S. Eigenbrode, D. Althoff, C. Goldberg, W. Morse, M. Nielsen-Pincus, J. Stephens, L. Winowiecki, J. D. Wulfhorst, and N.A. Bosque-Pérez. 2006. Philosophical issues in interdisciplinary research. 48th Annual Idaho Academy of Science Meeting and Symposium, Moscow, Idaho, March 23-25, 2006. (T&L)

Sanchez-de León, Y., S. Donovan, C. Looney, T. Hanson, T.D. Hatten, J. Johnson-Maynard, J.D. Wulfhorst, S.D. Eigenbrode, S. Brunsfeld, and N.A. Bosque-Pérez. 2006. Using interdisciplinary research to develop conservation strategies in the Palouse landscape. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (Poster presentation). (D / T&L)

Toohey, R., M. Ramos, E. Varón, E. Florian, A. Cárdenas, S. Donovan, J. Jones, J. Boll, N.A. Bosque-Pérez, S.D. Eigenbrode, C. Harvey, L. Hilje, D. Stoian, and J.D. Wulfhorst. 2006. Prioritizing coffee agroforestry systems for connectivity and environmental services within a biological corridor in Costa Rica. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (D / T&L)

Eigenbrode, S.D., The Joint Doctoral Program between UI and CATIE: an opportunity for international collaboration. Fourth Annual Meeting UI-CATIE IGERT Project, Moscow Idaho, September 5-10, 2006. (D / T&L)

Looney, C., B.T. Caldwell, T. Hatten, C. Lorion, and S.D. Eigenbrode. 2004. Potential Habitat Factors Influencing Carrion Beetle Communities of Palouse Prairie Remnants. North American Prairie Conference, Madison, Wisconsin. August 8-12.

Looney, C., B.T. Caldwell, T, Hatten, C. Lorion, and S.D. Eigenbrode. 2004. Scabs, Eyebrows, and Carrion Beetles. Initiative in Organismal Interactions fall retreat, Camp Wooten, Washington, August 28-29.

Looney, C., B.T. Caldwell, T. Hatten, C. Lorion, and S.D. Eigenbrode. Scabs, Eyebrows, and Carrion Beetles. Palouse Prairie Foundation monthly meeting, November 11. 2004

Dahlquist, Ruth M., B. Polidoro, S.D. Eigenbrode, M.J. Morra, E. Somarriba, D. Stoian, L. Hilje, and N.A. Bosque-Pérez. Assessment of farmer knowledge, attitudes, and practices in banana weevil management in Talamanca, Costa Rica Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Werner, Brent J., T.M. Mowry, S.D. Eigenbrode, N.A. Bosque-Perez, and H. Ding. Green peach aphid responses to volatiles produced by potato leafroll virus-infected potatoes at various times following inoculation, Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Srinivasan, R., J.M. Alvarez, S.D. Eigenbrode, and N.A. Bosque-Pérez. The effect of *Solanum sarrachoides* and potato leafroll virus-infection on the biology and behavior of *Myzus persicae,*Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Hatten, T.D., N.A. Bosque-Pérez, and S.D. Eigenbrode. Tillage across crops differentially affects the capture efficiency of pitfall traps for three species of ground beetles.Entomological Society of America Pacific Branch 88th Annual Meeting, Bozeman, Montana. June 20-24, 2004

Hatten, T. D., N.A. Bosque-Pérez, S. Eigenbrode, and S. Gebby. Influence of habitat fragmentation and matrix elements on the ground-dwelling beetle and spider fauna of the Palouse: Does conservation tillage conserve biodiversity? Latah Soil and Water Conservation District Board Meeting, Moscow, Idaho. March 2, 2004.

Hatten, T.D., S.D. Eigenbrode, N.A. Bosque-Pérez, S. Gebbie, and C. Looney. 2004. Influence of matrix elements on prairie-inhabiting epigeal arthropods of the Palouse: Is conservation tillage conservation biology? 19th North American Prairie Conference, Madison, Wisconsin, August 8-12, 2004.

Hatten, T.D., S.D. Eigenbrode, N.A. Bosque-Pérez, S. Gebbie, and C. Looney. 2004. Is conservation tillage conservation biology? Annual Meeting Washington State University and University of Idaho Interorganismal Interaction Working Group, Camp Wooten, Washington, August 29, 2004

Dahlquist, R.,, N.A. Bosque-Pérez, D. Schotzko, T. Hatten, and S. Eigenbrode. Effect of tillage on abundance and activity of the pea leaf weevil (*Sitona lineatus* L.). First Annual Meeting of the UI-CATIE IGERT Project, La Selva and Turrialba, Costa Rica. 2003

Hatten, T., G. Chang, J. Johnson-Maynard, N.A. Bosque-Pérez, and S.D. Eigenbrode 2003.6th Northwest Direct Seed Cropping Systems Conference, Pasco, Washington. 2003. Examination of tillage factors, crop type, soils, and non-crop habitat upon soil fauna and ground dwelling predators in a small inland PNW watershed.

Hatten, T., G. Chang, N. Bosque-Pérez, and S.D. Eigenbrode. Crop and cultural practices influence the abundance and diversity of soil-surface Coleoptera in the Palouse. Entomological Society of America Pacific Branch Meeting, Lake Tahoe, Nevada, 2002

Hatten, T. D., S. Gebbie, N. Bosque-Pérez, and S.D. Eigenbrode. Richness and community structure of ground dwelling arthropods found in select Palouse prairie remnants. Palouse Prairie Foundation, Moscow, Idaho, September 5 2002.

Eigenbrode, S.D., P.H. Berger, N.A. Bosque-Pérez, H. Ding and E. Jimenez. Volatiles from virus-infected plants influence vector behavior: clever luteoviruses? Annual Meeting of The Pacific Branch of The Entomological Society of America, Tucson, Arizona, March 2003.

Hatten, T., Chang, G., Eigenbrode, S., and Bosque-Pérez, N. Examination of tillage factors, crop type, soils and non-crop habitat effect upon soil fauna, ground dwelling predators, and aphid density in a small inland PNW watershed. PNW Tillage Conference, Pasco, Washington, 7 January 2003.

Chang, G, and Eigenbrode, S. Does reduced epicuticular wax in peas affect predation on lady beetles by ground beetles? Entomological Society of America Annual Meeting, Ft. Lauderdale, Florida, 12 November 2002.

Hatten, T., G. Chang, N. Bosque-Pérez, and S.D. Eigenbrode. Crop and cultural practices influence the abundance and diversity of soil-surface Coleoptera in the Palouse. Entomological Society of America Pacific Branch Meeting, Lake Tahoe, Nevada, 2002. (oral presentation).

Chang, G. and S.D. Eigenbrode. Does Leaf Surface Waxbloom in peas affect interaction between lady beetles and ground beetles? Ecological Society of America, Tucson, Arizona, August 8, 2002.

Duetting, P. and Eigenbrode, S.D. Plant surface waxes influence infection of the pea aphid by entomopathogenic fungi. Joint Meeting of the Entomological Society of America and the Entomological Society of Canada, December 2000, Montreal, Quebec.

Cervantes, D.E., N.A. Bosque-Pérez, and S.D. Eigenbrode. Hessian fly oviposition behavior and establishment on winter wheat. Western Society of Crop Science Annual Meeting, June 2000, Moscow, Idaho.

Bechinski, E.J., S.D. Eigenbrode, R.C. Stoltz, and L. Unger. Adult sugarbeet root maggot responses to plant volatiles. Pacific Branch of the Entomological Society of America, Costa Mesa, California, June 2000.

Eigenbrode, S.D. and C. Rutledge, Can peas be bred to enhance biological control of insect pests? National Pea Improvement Association Meeting, Calgary, Alberta, October 1999.

Eigenbrode, S.D. Surface waxes and insect predation. International Society for Chemical Ecology, Ithaca, New York, June 1998.

Eigenbrode, S.D. Surface waxes and insect predation. 10th International Symposium on Insect-Plant Interactions, Oxford, U.K. July 1998.

White, C. and S.D. Eigenbrode. Extrinsic resistance to insects in peas with glossy surface waxes. 15th Biennial Workshop on Plant Resistance to Insects, Memphis, Tennessee, 1998.

Eigenbrode, S.D. and C. White. 1997. Effects of wax mutations in *Pisum* on pest insects and predators. American Society of Agronomy, Crop Science Society, Joint Meeting, Anaheim, California.

Eigenbrode, S.D.. 1997. Beneficial insects and surface wax mutations in peas. National Pea Improvement Association Meeting, Annapolis, Maryland.

Eigenbrode. S.D. Surface-wax variation effects on late-season pests of canola: potential of a glossy-wax gene for insect resistance breeding.1997 Pacific Northwest Canola Research Meeting, Moscow, Idaho.

Eigenbrode, S.D. and J. Tipton. 1995. Pest resistance in redbud. 92nd Annual Meeting of the American Society for Horticultural Science, Montreal.

Eigenbrode, S. D. and E.A. Bernays. The plant-insect interdisciplinary program at the University of Arizona. International Plant Resistance to Insects- 11th Biennial Workshop. Stillwater, Oklahoma, March 1994.

Eigenbrode. S. D. and J.T. Trumble. Sesquiterpenes and resistance to beet armyworm in tomato. Meeting of the Pacific Branch of the Entomological Society of America, Kona, Hawaii, June 1992.

Eigenbrode, S. D. and J.T. Trumble. Trichome-mediated resistance to beet armyworm in tomato. 26th Annual Entomology Conference. University of California, Riverside, 1992.

Eigenbrode S. D. and J.T. Trumble. Resistance to beet armyworm in tomato. Meeting of the Pacific Branch of the Entomological Society of America, Sacramento, California, June 1991.

Eigenbrode, S. D., Response of neonate diamondback moth larvae to leaf surface wax extracts from resistant and susceptible cabbages. Annual Meeting of Entomological Society of America, December 1990.

Eigenbrode, S. D. and A.M. Shelton. Behavioral basis of resistance to diamondback moth in cabbage. Annual Meeting of Entomological Society of America, December 1989.

Eigenbrode, S. D. and A.M. Shelton. Monitoring neonate caterpillars on leaf surfaces. Meeting of Eastern Branch Entomological Society of America, Providence, Rhode Island, 1989.

S.D. Eigenbrode and A.M. Shelton. Mechanisms of resistance to diamondback moth in cabbage. Annual

Meeting of Entomological Society of America, December 1988.

Shelton, A.M. and S.D. Eigenbrode. Breeding crucifers resistant to foliage feeding insects. Annual Meeting of the Entomological Society of America, December 1988.

Eigenbrode, S.D. and A.M. Shelton.Locomotory behavior of diamondback moth larvae on resistant cabbage. Eastern Branch Meeting of the Entomological Society of America, Syracuse, New York, 1988.

Eigenbrode, S.D. Effects of manure on insects on collards., Annual Meeting of the Entomological Society of America, Boston, Massachusetts, 1987.

Eigenbrode, S.D. Plant nutritional stress affects herbivores on collards, Annual Symposium of Section of Ecology and Systematics, Cornell University, 1986.

Eigenbrode, S.D. Effect of manure fertilization on insect pests of collards. Ecological Agriculture Research Collective Symposium, Cornell University, 1985.

Eigenbrode, S.D. Fertilizer practices and insect pests in collards. Ecological Agriculture Research Collective Symposium, Cornell University, 1984.

Extension and Outreach Presentations (number attending) (partial list):

Eigenbrode, S.D. Vigilant management strategies to guard against insect pests as climate and weather patterns shift. Spokane County Crop Improvement Association, Nov. 19, 2011, Spokane Washington. (M5.1 and M5.2)**

Eigenbrode, S. D., Stokes, B. Legume Virus Management, Spokane Co. Growers Breakfast, Spangle WA, Feb. 17, 2011 (20)

Eigenbrode, S. D. Latest News from Legume Virus Project, Co-Ag Growers Meeting Coeur d'Alene, Casino, Jan 23, 2011 (150)

Eigenbrode, S. D. Integrated Disease Management for Legume Viruses. Western Pea and Lentil Growers Association Meeting, Dec. 9, 2010 Moscow ID (150)

Eigenbrode, S. D. Assessing insecticide treatments for limiting virus spread in cool season legumes. CSFL Research Review, 31 Jan. 2010 (25)

Eigenbrode, S. D., Husebye, D., Vemulapati, B. Managing Aphid-Transmitted Viruses in Dry Peas & Lentils, Spokane County Cropping School (Workshop) (10)

Eigenbrode, S. D. Managing Aphid-Transmitted Viruses in Dry Peas & Lentils, Nez Perce/Latah/Asotin County Extension Cereal School, Feb. 10, 2010, Lewiston ID (40)

Eigenbrode, S. D. 2009. Integrated Disease Management for Legume Viruses, Progress Report. Principal talk presented at the Western Pea & Lentil Growers Annual Meeting, University Inn, Moscow, ID. 9 Dec. 2009.

Eigenbrode, S. D. Spokane Co. Grain Growers, 25 Nov. 2008 (45)

Eigenbrode, S. D. Nez Perce Co. Crop Committee, 2 Dec., 2008 (12)

Eigenbrode, S. D. Western Pea and Lentil Growers Association, 10 Dec., 2008 (150)

Eigenbrode, S. D.CSFL Research Review, 5, Jan. 2009 (25)

Eigenbrode, S. D. LVP-RAMP Advisory Board, 10 Feb. 2009 (10)

Eigenbrode, S. D. Colfax Direct Seeders, 12 Feb. 2009 (25)

Eigenbrode, S. D. Lewis/Idaho/Clearwater Counties Prairie Area Extension Cereal School, 10 Feb. 2009 (25)

Eigenbrode, S. D. Clear Creek Direct Seed Breakfast Meeting, 12 Mar. 2009 (30)

Eigenbrode, S. D.UI Plant Science Farm Tour, 21 Jun. 2009 (60)

Eigenbrode, S. D.WSU ARS Twilight Tour, 23 Jul. 2009 (30)

Eigenbrode, S. D.UI Virus Injury Workshop, July 2009 (10)

Eigenbrode, S. D.USA Dry Pea and Lentil Council Research Committee, ?? May 2009 (20)

Eigenbrode, S. D. "RAMP" A New Project to Help Growers Prevent Pulse Crop Virus Epidemics". Nez Perce/Latah/Asotin County Extension Cereal School, Genesee ID, 11 Feb, 2009.

Eigenbrode, S. D. "RAMP" A New Project to Help Growers Prevent Pulse Crop Virus Epidemics", Prairie Area Cereal Extension School, Greencreek ID, 10 Feb. 2009.

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes. Nez Perce Co. Crop Committee, 4 Dec. 2008.

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes in the Palouse. Western Pea and Lentil Growers Association Meeting, 11 Dec. 2008.

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes in the Palouse. Spokane Co. Grain Growers, 25 Nov. 2008.

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes in the Palouse. USA Dry Pea and Lentil Counsel Annual Meeting, 8 Dec. 2007.

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes in the Palouse. Spokane Co. Grain Growers, 19 Nov. 2007.

Eigenbrode, S. D. Invasive plants, invasive communities, Native Plant Society, Palouse, 28 Feb. 2007

Eigenbrode, S. D. 2007. Virus diseases, incidence and management. Plant Science Farm Field Day (20 June 2007).

Eigenbrode, S. D. 2007. Virus diseases, incidence and management. Clearwater Direct Seeders (6 March 2007).

Eigenbrode, S. D. Forecasting and monitoring viruses in legumes in the Palouse. Spokane Co. Grain Growers, 18 Jan. 2007.

Insecticides for pea aphid control, S. D. Eigenbrode, Plant Science Farm Field Day (22 June 2005).

Insecticides for pea aphid control, S. D. Eigenbrode, Pea and Lentil Review, January 2005, University of Idaho.

New sources of insect resistance in tomatoes. S.D. Eigenbrode and J.T. Trumble. 25th Annual Entomology Conference. University of California, Riverside, 1991.

Diamondback moth insecticide resistance, thrips control, and sprayer coverage on cabbage. S.D. Eigenbrode and A.M. Shelton. Pennsylvania Vegetable Conference and Trade Show, Hershey, Pennsylvania, 1990.

How resistant cabbage kills diamondback moths. S.D. Eigenbrode and A.M. Shelton, New York State Vegetable Conference, Rochester, New York, 1989.

Display Presentations:

Eigenbrode, S. D., Nathanial Foote, Abatzoglou, J. Projected range of cereal leaf beetle with climate change scenarios for the Pacific Northwest, Northwest Climate Science Conference, Portland OR, Sept. 4

Eigenbrode, S. D., Nathanial Foote, Abatzoglou, J. Projected range of cereal leaf beetle with climate change scenarios for the Pacific Northwest, BioEarth Conference. Ag. Projects Conference, Nov. 19.

Eigenbrode, S. D., Nathanial Foote, Abatzoglou, J. Projected range of cereal leaf beetle with climate change scenarios for the Pacific Northwest, BioEarth Conference. June 2013

Eigenbrode, S. D. Regional Approaches to Climate Change for Inland Pacific Northwest Cereal Production Systems. 2013. Northwest Climate Science Conference, Portland OR, Sept. 4

Eigenbrode, S. D. Regional Approaches to Climate Change for Inland Pacific Northwest Cereal Production Systems. 2013. Parker Farm Field Day, Moscow ID

Clayton, L.A.; E. J. Bechinski, S. D. Eigenbrode, D. Husebye, A. Karasev, D. Roberts, B.S. Stokes, and T. Young. 2012. Online decision support tools for cool-season legume growers. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, Charleston, South Carolina.

Paudel, S., Eigenbrode, S. D. Deriving economic models for pea aphid (Acyrthosiphum pisum) as direct pest as well as vector for Pea enation mosaic virus and *Bean leaf roll virus* in dry lentil. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Eigenbrode, S. D. Regional Approaches to Climate Change for Inland Pacific Northwest Cereal Production Systems. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Oregon

Rhoades, P. R., Sanford D. Eigenbrode, Lisette Waits. Using landscape factors to estimate abundance, species diversity and genetic structure of native bees: a conceptual approach. Annual Meeting of the Pacific Branch of the Entomological Society of America, March 26, 2012, Portland Orego

Eigenbrode, S. D., John T Abatzoglou, John Antle, Ian C. Burke, Susan Capalbo, Paul Gessler, David R. Huggins, Jodi Johnson-Maynard, Chad Kruger, Brian K. Lamb, Stephen Machado, Philip Mote, Kate Painter, William Pan, Steven Petrie, Timothy C. Paulitz, Claudio Stockle, Von Patrick Walden, Jeffry D. Wulfhorst, Kattlyn Wolf, Regional Approaches to Climate Change for Inland Pacific Northwest Cereal Production Systems American Geophysical Union Meeting, Dec. 2011, San Francisco, CA.

Eigenbrode, S. D., Abatzoglou, J. Projected range of cereal leaf beetle with climate change scenarios for the Pacific Northwest, Annual Meeting of the Entomological Society of America, Nov. 2011, Reno, NV.

Eigenbrode, S. D., Abatzoglou, J. Projected range of cereal leaf beetle with climate change scenarios for the Pacific Northwest, Sustainable Corn.org Annual Meeting, Chicago, IL, Nov. 9 2011.

Carole B. Rapo, University of Idaho; Hariet L. Hinz, CABI ; Sanford D. Eigenbrode, University of Idaho ; John Gaskin, USDA - ARS ; Urs Schaffner, CABI ; William J. Price, University of Idaho ; Mark Schwarzländer, University of IdahoMetabolic profiling: a new tool in the prediction of host-specificity in classical biological control of weeds? Annual Meeting of the Entomological Society of America, Nov. 2011, Reno, NV.

Eigenbrode, S.D., Capalbo, S., Gessler, P., Gosz, J., Huggins. D., Johnson-Maynard, J. Kok, H. Pan, W., Petrie, S., Wulfhorst, J.D. Planning a Long-Term Agricultural Project for Dryland Agroecosystems of the Inland Pacific Northwest. Pacific Northwest Direct Seed Association Meeting, Jan. 10, 2010, Kennewick WA

Elbakidze, L. Liang Lua, Eigenbrode, S. D. Evaluating vector-virus-plant interaction in regional supply of peas and lentils: a limited dependent variable analysis. Agricultural & Applied Economics Association 2010 AAEA, CAES, & WAEA Joint Annual Meeting, Denver, Colorado, July 25-27, 2010

Husebye, D. S., S.D. Eigenbrode, E.Bechinksi, Alex V. Karasev, Stephen L. Clement, Bhadramurthy Vemulapati, Hanu PappuHusebye, D.Monitoring and Forecasting Virus Diseases In Legumes in the Palouse Region of the Inland Pacific Northwest, USA. Joint Meetings Plant Virus Epidemiology Symposium and Plant Virus Ecology Network. Ithaca, New York, June 20-24, 2010. Poster presentation

Eigenbrode, S. D., Ding, H. D., Karasev, A. Responses of *Myzus persicae* to volatile organic compounds of *Nicotiana benthamiana* plants infected with wild-type Potato leaf roll virus (PLRV) and PLRV with point mutations within the viral gene P4. Plant Virus Ecology Network meeting, Ithaca New York, June 2010.

Looney L., J. D. Wulfhorst, M. O'Rourke, I. O'Laughlin, S. D. Eigenbrode, S. Donovan, S. Crowley, B. Crist, 009. No, we should use the other hammer: A toolbox-based approach to negotiating philosophical differences within cross-disciplinary research groups. Northwest Science Meeting, Portland OR.

Ngumbi, E., S.D. Eigenbrode, H. Ding, and N.A. Bosque-Pérez. 2007. The role of olfaction in behavioral responses of green peach aphid to *Potato leaf roll virus*-infected and non-infected potato plants. International Plant Virus Epidemiology Symposium, Hyderabad, India, October 15-19, 2007. (Poster presentation) (D)

Ramos, M., N. A. Bosque-Pérez, L. Hilje, C. Godoy, and S.D. Eigenbrode. 2007. Efecto del manejo de arvenses en las comunidades de cicadelinos (Hemiptera: Cicadellinae) en sistemas agroforestales de café de Costa Rica (The effect of weed management on leafhopper communities (Hemiptera: Cicadellinae) in coffee agroforestry systems of Costa Rica). 1er Congreso Científico Latinoamericano de Agroecología (First Latin American Agroecology Congress), Río Negro, Colombia, August 13-15, 2007. (Poster presentation) (A & I)

Srinivasan, R., J.M. Alvarez, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2007. Influence of an alternate weed host, *Solanum sarrachoides* (Sendtner) on the epidemiology of Potato leaffroll virus in potato ecosystems of Idaho. International Plant Virus Epidemiology Symposium, Hyderabad, India, October 15-19, 2007. (Poster presentation) (D)

Sánchez-de León, Y., S. Donovan, C. Looney, T. Hanson, T.D. Hatten, J. Johnson-Maynard, J.D. Wulfhorst, S.D. Eigenbrode, M. Jennings, and N.A. Bosque-Pérez. Using interdisciplinary research to reconcile social and biological needs in an endangered ecosystem: the Palouse as a model. IGERT Biodiversity and Social Science meeting, Fairbanks AK, 13 Oct 2007.

Bennet Kirsch, C. Looney, S. D. Eigenbrode. Comparative Diversity and structure of arthropod communities of native and introduced *Rosa* spp. on the Palouse. Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Emily C. Poor, C. Looney and S. D. Eigenbrode. Parasitoid community structure of introduced *Diplolepis rosae* and Native *Diplolepis* species on the Palouse. Pacific Branch of the Entomological Society of America, March 26, 2007, Portland OR

Mariangie Ramos, Edgar Varon, Sanford D. Eigenbrode, Nilsa A. Bosque-Perez, Luko Hilje, The effect of riparian forested corridors on beneficial and detrimental entomofauna in coffee farms of the Turrialba

Region, Costa Rica, Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Karla J. Medina-Ortega, Nilsa A. Bosque-Pérez, Sanford D. Eigenbrode*, Rhopalosiphum padi* responses to headspace volatiles from Barley yellow dwarf virus-infected and non-infected wheat plants, Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Dennis J. Schotzko, Ruth M. Dahlquist, Tim Hatten, Sanford D. Eigenbrode, Nilsa A. Bosque-Pérez, Effect of tillage on pitfall trap capture efficiency and the relative or absolute abundance of the pea leaf weevil in peas, Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Eigenbrode, S.D., Andreas, J., Ding, H.-J., Biggam, R., Schwarzlaender, M. Comparison of pyrrolizidine alkaloid induction in European and North American houndstongue. Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Hatten, T.D., N.A. Bosque-Pérez, and S.D. Eigenbrode. 2004. Tillage within and across crops differentially affects the activity-density and diversity of ground beetles. Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

Hatten, T., N.A. Bosque-Pérez, S. Eigenbrode, and S. Gebby. 2004. Influence of habitat fragmentation and matrix elements on the ground-dwelling beetle and spider fauna of the Palouse: Does conservation tillage conserve biodiversity? Latah Soil and Water Conservation District Board Meeting, Moscow, Idaho. March 2, 2004.

Hatten, T., N.A. Bosque-Pérez, S.D. Eigenbrode, J. Johnson-Maynard, and G.C. Chang. 2003. Influence of management practices on abundance and diversity of soil-surface Coleoptera in the Palouse. 6th Northwest Direct Seed Cropping Systems Conference, Pasco, Washington.

Hatten, T., N. Bosque-Pérez, S. Eigenbrode, S. Gebby, and G. Chang. 2002. Richness and community structure of ground dwelling arthropods found within cropland and remnant prairie of the Palouse. Annual Meeting Washington State University and University of Idaho Interorganismal Interaction Working Group, Priest Lake, Idaho.

Jones, P., T.D. Hatten, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2003. Examining the effects of crop and tillage on the habitat preference of Carabidae found in the Palouse region of Idaho. Annual Meeting Washington State University and University of Idaho Interorganismal Interaction Working Group, Dworshak State Park, Idaho.

Schotzko, D.J., R. Dahlquist, T. Hatten, S.D. Eigenbrode, and N.A. Bosque-Pérez. 2004. Effect of tillage on pitfall trap capture efficiency and the relative or absolute abundance of the pea leaf weevil in peas. Annual Meeting Entomological Society of America, Salt Lake City, Utah, November 14-17, 2004.

The effect of kaolin-based particle films on pea aphids and on *Pandora neoaphidis*, a fungal pathogen of pea aphids. Ding, H., J. Neufeld, P. Duetting, and S.D. Eigenbrode. Annual Meeting Entomological Society of America, November 2002, Fort Lauderdale, Florida.

Electroantennogram responses of sugar beet root maggot flies to selected organic compounds. Emmert, S., H. Ding, and S.D. Eigenbrode. Annual Meeting Entomological Society of America, November 2002, Fort Lauderdale, Florida.

Influence of management practices on abundance and diversity of soil-surface Coleoptera in the Palouse. Hatten, T., N. Bosque-Pérez, S.D. Eigenbrode, and G. Chang. 2002. Annual Meeting Entomological Society of America, November 2002, Fort Lauderdale, Florida.

Response of the predatory mite*, Neoseiulus fallacis* Garmen to volatiles from hop, Humulus lupulus L. damaged by spider mites. Gardiner, Mary M., James D. Barbour 1, and Sanford D. Eigenbrode Annual

Meeting Entomological Society of America, November 2002, Fort Lauderdale, Florida.

Induction of volatile organic compounds from potato leafroll virus-infected potato plants that attract the virus vector *Myzus persicae.* Eigenbrode, S.D., Philip H. Berger, Hongjian Ding, Jim H. Lorenzen, and Analiz Rodriguez.

Waxy blooms in peas influence the performance and behavior of Aphidius ervi, a parasitoid of the pea aphid. Neufeld, J., Daniel Durr, and Sanford D. Eigenbrode Entomological Society of America, November 2002, Fort Lauderdale, Florida.

Responses to host cues by *Tetanops myopaeformis*: Modalities are not additive? Eigenbrode, S.D., Ding, H., and Bechinski, E. Joint Meeting of the Entomological Society of America and the Entomological Society of Canada, December 2000, Montreal, Quebec.

Volatiles from PLRV-infected potatoes are arrestants for Myzus persicae. Ding, J., and S.D. Eigenbrode. Joint Meeting of the Entomological Society of America and the Entomological Society of Canada, December 2000, Montreal, Quebec.

Oviposition behavior and establishment of Hessian fly on resistant and susceptible spring wheats. Cervantes, D.E., N.A. Bosque-Pérez, S.D. Eigenbrode and E.J. Souza. Pacific Branch Meeting of the Entomological Society of America, June 1999, Eugene, Oregon.

Oviposition behavior of Hessian fly on winter wheats varying in surfaces wax. Cervantes, D.E., N.A. Bosque-Pérez, and S.D. Eigenbrode. International Plant Resistance to Insects 14th Biennial Workshop, March 2000, Fort Collins, Colorado.

Waxbloom variation in peas and the functional response of single and multiple aphid predators, C.E. Rutledge, and S.D. Eigenbrode, International Plant Resistance to Insects Workshop, Ft. Collins, Colorado, March 2000.

Attachment by a coccinellid to natural plant surface waxes and pure wax components, S. Eigenbrode, N. Kabalo, and R. Jetter, Annual meeting of the Entomological Society of America, Atlanta, Georgia, December 1999.

Evaluation of spring interspecific hybrids between *Brassica napus* and *Sinapis alba* for insect resistance and tolerance, J. Brown, J. McCaffrey, S.D. Eigenbrode, and J.B. Davis. Pacific Northwest Oilseeds Conference, Great Falls, Montana, November 1999.

Waxbloom variation in peas and the functional response of single and multiple aphid predators, C.E. Rutledge, and S.D. Eigenbrode, International Entomophagous Insects Workshop, Asilomar, California, October 1999.

Predation is greater on peas with reduced waxbloom, C. Rutledge and S.D. Eigenbrode, Ecological Society of America Meeting, Spokane, Washington, August 1999.

Growth and feeding behavior of two herbivores on *Brassica juncea* lines differing in glucosinolate concentration and myrosinase activity, Q. Li and S.D. Eigenbrode, Ecological Society of America 84th Annual Meeting, Spokane, Washington, August 1999.

Growth and feeding behavior of two herbivores on *Brassica juncea* lines differing in glucosinolate concentration and myrosinase activity, Q. Li and S.D. Eigenbrode, International Society of Chemical Ecology Meeting, Ithaca, New York, June 1998.

Effects of glucosinolates and their hydrolyzing enzymes on insect behavior. Q. Li and S.D. Eigenbrode, Pacific Northwest Canola Meeting, Moscow, Idaho, November 1997.

Effects of surface waxbloom on predation and behavior of *Hippodamia convergens* and *Chryosperla*

plorabunda C. White and S.D. Eigenbrode, Annual Meeting of the Entomological Society of America, Nashville, Tennessee, 1997.

Predators of pea aphids are more effective on a glossy mutant of peas. S.D. Eigenbrode, C. White, M. Rohde. PSES Plant Science Farm Field Day, 1997.

Predators of pea aphids are more effective on a glossy mutant of peas. S.D. Eigenbrode, C. White, M. Rohde. National Meeting of the Entomological Society of America, Louisville, Kentucky, 1996.

Biting deterrents in waxes of glossy cabbage. S.D. Eigenbrode and S. Pillai. Annual Meeting of the Entomological Society of America, Las Vegas, Nevada, 1995.

Generalist predators contribute to resistance to insects in glossy cabbage. S.D. Eigenbrode, S. Moodie, T. Castagnola, M.-B. Roux. Annual Meeting of the Entomological Society of America, Dallas, Texas, December 1994.

Trichomes and resistance to beet armyworm in *Lycopersicon.* S.D. Eigenbrode, J.T. Trumble and K.K. White. International Plant Resistance to Insects- 11th Biennial Workshop. Stillwater, Oklahoma, March 1994.

Trichomes and resistance to beet armyworm in *Lycopersicon*. S.D. Eigenbrode, J.T. Trumble and K.K. White. Hexapodium, Center for Insect Science, Tucson, Arizona, March 1994.

Fruit-based tolerance to beet armyworm in *Lycopersicon* accessions. S.D. Eigenbrode and J.T. Trumble. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana, December 1993.

Mechanisms of resistance to beet armyworm in tomato accessions. S.D. Eigenbrode, W.C. Carson, J.T. Trumble, and R. Jones. Plant Resistance to Insects Workshop, Indianapolis, Indiana, February 1992.

Mechanisms of resistance to beet armyworm in tomato accessions. S.D. Eigenbrode, W.C. Carson, J.T. Trumble, and R. Jones. Annual Meeting of the Entomological Society of America, Reno, Nevada, December 1991.

Diamondback moth resistance in glossy genotypes of *Brassica*. Sixth Crucifer Genetics Workshop, Ithaca, New York, 1990.

Other Creative Activities:

Workshops on improving communication in collaborative research. Approximately 20 have been delivered with me acting as a facilitator or recorder.

Grants and Contracts Awarded (Total, $26,540,000 funded):

Forcasting aphid and viruses in Pacific Northwest Legumes, Eigenbrode, S.D., Bechinski, E., Crowder, D. USA Dry Pea and Lentil Council, $25,000.

Regional Approaches to Climate Change for Pacific Northwest Agriculture. Eigenbrode, S.D. and 19 other PIs from Washington State University, Oregon State University and the Agricultural Research Service of the USDA. National Institute for Food and Agriculture CAP program, $20,000,000, Award No. 2011-68002-30191

Dryland Agriculture's Impact on Soil Carbon Storage: Targeting Key Knowledge Gaps, Jodi Johnson-Maynard, Huggins, D., Mahler R., Eigenbrode, STEEP, $48,807

Management of Virus Disease Epidemics in Lentils via Prescribed Conditional Pea Aphid Control: Evaluation of Economic Effectiveness and Feasibility, WRIPM, Elkabidze, L., Eigenbrode, S. D. $95K.

Vector Responses To Virus-Induced Changes In The Host Plant: Implications For Disease Spread, National Institute for Food and Agriculture AFRI, $390 Award No. 2009-02604-2009

Planning a Long Term Agricultural Project for Dryland Agroecosystems of the Inland Pacific Northwest Eigenbrode, S. D., Johnson-Maynard, J., Wulfhorst, J. D., Gosz, J. D., Kok, H., Pan, W., Capalbo, S., Petrie, S. National Institute for Food and Agriculture Long Term Agricultural Project Planning Grant program, $200,000, Award No. 2010-85208-20388

Evaluating resilience of ecological and social systems in changing landscapes: a doctoral research and education program in Idaho and Costa Rica education program in Idaho and Costa Rica, NSF IGERT (2009-2014). Bosque-Perez, N.A., Eigenbrode, S. D., Waits, L., Wulfhorst, J.D., Force, J. E. $3,200K

Evaluating Resistance to Cabbage Seedpod Weevil in *B. napus x S. alba* Hybrids. 2008. PNW Canola Research Program. Eigenbrode, S. D., McCaffrey, J.P. $18K

Reducing Risks Associated with Viruses Affecting Cool Season Food Legumes. 2008. USDA-CSREES-RAMP Program. Eigenbrode, S. D., Karasev, A., Bechinski, E., Pappu, H., McPhee, K., Porter, L., Larsen, R. $1,240K

Improving Communication in Cross-Disciplinary Collaboration. 2008. National Science Foundation, Science and Society Program. O'Rourke M., Eigenbrode, S. D., Wulfhorst, J.D., Crowley, S. $290K

Trap Cropping for Flea Beetle Control in Vegetable *Brassica*. Western SARE, 2008. Snyder, W., Williams, C., Morra, M., Eigenbrode, S. D. $198K

Forecasting Risks of *Pea Enation Mosaic Virus* in Dry Peas. 2008. USDA-CSREES-Cool Season Food Legume Program (CSFL), Eigenbrode, S., Ding, H. $47K.

Volatile Release from Virus-Infected Plants. USDA-NRI. 2007. Karasev, A., Eigenbrode, S. D. $140K

Philosophical Dialogue in Collaborative Research. 2007. University of Idaho Interdisciplinary Initiative, Eigenbrode, S. D., O'Rourke, M. $18K

Forecasting Risks of Pea Enation Mosaic Virus in Dry Peas. 2007. USDA-CSREES-Cool Season Food Legume Program (CSFL), Eigenbrode, S., Ding, H. $24K.

Insecticide Trials for Insect Control in Legumes, Syngenta Corp. 2006. $13.5K.

Insect Pest Management in Dry Peas and Winter Legumes in the Palouse, Eigenbrode, S., 2005. USDA-CSREES, CSFL $17K.

Assessing the impact of no-till and conventional-till on crop, variety, soil, insect, and disease responses, years 4-6, Guy, S.O., Bosque-Pérez, N., Eigenbrode, S., Johnson-Maynard. 2006. USDA-CSREEES, STEEP III, $132K.

Plant Virus Infection-Induced Volatiles and Vector Behavior Eigenbrode, 2006. S.D. Hatch $66K.

Aphid responses to volatile organic compounds produced by virus-infected plants, 2004. CSREES/NRI Eigenbrode, S., Bosque-Perez, N., Mowry, T. $210K.

Physiology of mosquito behavior NSF - Integrative Animal Biology Klowden, M., Eigenbrode, 2002. S. $431K.

Forecasting Risks of Pea Enation Mosaic Virus in Dry Peas, 2003 USDA-CSREES-Cool Season Food Legume Program (CSFL), Eigenbrode, S., Ding, H. $19K.

Assessing the impact of no-till and conventional-till on crop, variety, soil, insect, and disease responses, years 1-3. 2004. USDA-CSREES, STEEP III Guy, S. O., Bosque-Pérez, N., Eigenbrode, S., Johnson-Maynard, $132.1K.

Insect Pest Management in Dry Peas and Winter Legumes in the Palouse USDA-CSREES-CSFL19K.

Ecosystem Management in tropical and temperate regions: Integrating education in sustainable production and biodiversity conservation (with N. Bosque-Pérez, J. Force, S. Brunsfeld, L. Waits, P. McDaniel). NSFIGERT 2001-02, $2.6 million.

Developing an attract and kill method for managing the cabbage root maggot fly (with E. Bechinski) CSREES Crops at Risk (CAR) IREE Competitive Grant Program, 2000-02, $91K.

Effects of a surface wax mutation in *Pisum sativum* on predation and interpredator interactions, (renewal), CSREES/NRI Competitive Research Grant, 2000-02 $163K.

Enhancing the infectivity of a fungus attacking pea aphids by genetically and artificially altering leaf surfaces of peas (renewal), CSREES Cool Season Food Legume Program, 2000, $15K.

Evaluating interspecific hybrids of *Sinapis alba* and *Brassica napus* for resistance to insect pests, Pacific Northwest Regional Canola Research Program with J. Brown and J. McCaffrey, 1999, spending authority $4K.

Enhanced infectivity of an entomopathogenic fungus attacking pea aphids on peas with genetically altered surface waxes, CSREES Cool Season Food Legume Program, with C. E. Rutledge, 1999, $27.8K.

Effects of crop surface waxes on insect trophic interactions, Hatch Program Project, $66K/year for 5 years.

Effects of a surface wax mutation in *Pisum sativum* on predation and interpredator interactions, CSREES/NRI Competitive Research Grant, 1997-2000, $110K.

Gas chromatograph/mass selective detector/infra-red detector for Chemical Ecology Program, CSREES/NRI Competitive Equipment Grant, 1998, $50K.

Effects of a surface wax mutation in *Pisum sativum* on insect pests and beneficials, CSREES Cool Season Food Legume Program, 1997, $16K.

Field testing the effects of surface wax and *afila* mutants of *Pisum sativum* on pestiferous and beneficial insects, CSREES Cool Season Food Legume Program, with S. J. Simon, 1996, $15K.

Response of insect herbivores to varying myrosinase activity in *Brassica,* NSF EPSCoR Grant, 1996-98, $108K.

Developing spring canola with resistance to late season insects, Pacific Northwest Regional Canola Research Program, co-PI, J. Brown, 1996-97, $9.5K.

Exploring *Salix* spp. as models for study of surface wax-mediated insect-plant interactions, University of Idaho Research Seed Grant, 1996, $6K.

Effects of surface wax mutants of *Pisum sativum* on pestiferous and beneficial insects, CSREES Cool Season Food Legume Program, with S. Clement, and J.C. Simon, 1995, $15K.

Transgenic broccoli that enhances biological control of a caterpillar pest, CSREES/NRI Competitive Research Grant, 1995-97, $120K.

Ongoing Research Projects:

Effects of climate change on agricultural practices in the PNW
Aphid responses to volatiles from virus-infected plants
Inter-predator interactions mediated by surface waxes
Virus risk forecasting for legumes in the Palouse region
Landscape ecology of Palouse region – production and biodiversity conservation
Mosquito hydrocarbons as affected by mating status
Plant metabolomic profiles to assess risk of nontarget attack by a biological control agent

Resistance mechanisms to cabbage seedpod weevil in *B. napus x S. alba* hybrid lines

Honors and Awards:

University Distinguished Professor, University of Idaho, a permanent honorary rank (2013 to present)
Invited Lecturer for the University of Idaho Department of Physics Award Banquet – topic - Insect Science and Integration, May 6, 2011
University of Idaho 2011 Award for Excellence in Interdisciplinary or Collaborative Efforts (shared with 5 other UI faculty members who have been instrumental in our successes with NSF-IGERT)
University of Idaho 2011 Award for Excellence in Research or Creative Activity
PSES Department Outstanding Teaching and Advising Award, 2011 (also nominated for college level award)
Nominated for the C.P Woodworth Award for Outstanding Service to Entomology in the Pacific Region, 2010 and 2012
Richard C. Heimsch, Gamma Sigma Delta Outstanding Researcher Award, 2009
PSES Department, Outstanding Researcher Award, 2007
Nominated for Gamma Sigma Delta Outstanding Research Award 2001 and 2007
Nominated for University Excellence in Research Award 2005
Dean's Commendation for Teaching Excellence, CALS, Spring 2001

Honorary Societies

Gamma Sigma Delta
Sigma Xi (UI Chapter President, 2004-2005)

SERVICE:

Major Committee Assignments:

University:
- Member, University 2020 Task Force, 2013
- Member, University of Idaho Administrative Appeals Board, 2003-2007, Chair in 2007
- Member, University of Idaho Library Affairs Committee 1996-99
  - Chair, 1996-97, 1998-99
- Outside Member, Tenure and Promotion Committee for Frank Rosenzweig (Biology), 1998

College:
- Member, Search Committee for Interim Dean of CALS, 2013
- Member, College of Agriculture Strategic Planning Committee, 1997-2000
- Member, College of Agriculture Promotion and Tenure Committee, 1999

Department:
- Chair, Search Committee for Biological Control of Weeds Faculty Position, 1999-2000
- Member, Dept. Greenhouse Committee, 1998-present
- Member, Vehicle and Transportation Committee, 1998-present
- Member, PSES Dept. Head Search Advisory Committee, 1997
- Member, Manis Award Committee, 1996
- Chair, H. C. Manis Facility Users Committee, 1995-97
- Member, Tenure and Promotion Committees:
  - Scott Fendorf (1997)
  - Wesley Chun (1996 and 1997)
  - Karen Strickler (1999)
  - 5-year review for Merl Brusven (1998)
  - 3-year review for J. Barbour (1999)

Professional and Scholarly Organizations:

Idaho Academy of Science (Board Representative for the University of Idaho, 2000-04). Lifetime Member
Kansas Entomological Society (1992 - 2001)
Entomological Society of America
- Nominated for Secretary, ESA Section F, 1998

Chair/Secretary, Subsection Fa, Plant Resistance to Insects, 1992-93
Chair, Committee for a New Publication 1992, resulted in restructuring of Arthropod Management Tests
Awards Nomination Committee, 1994
Ecological Society of America
International Society of Chemical Ecology
Sigma Xi (Univ. of Idaho Chapter President, 2003-04)

Editorial Service:

Editorial Board, Journal of Chemical Ecology (current)
Subject Editor, Journal of Economic Entomology (2004 to 2009)
Associate Editor, Environmental Entomology (current)
Book Reviewer for Elsevier, several titles
Book Prospectus Reviewer Oxford University Press, 2010
Book section, John Wiley and Son, 2010
Book Prospectus Reviewer University of Chicago Press, 2004, Elsevier 2005
Editor, *Entomologia Experimentalis et Applicata*, 1998-2001
Reviewer CAST (Committee on Agriculture, Science and Technology) report on Host Plant Resistance to Insects, 1997
Section Editor, Plant and Animal Resistance, Arthropod Management Tests, 1992-98
Instrumental in renaming Insecticide and Acaricide Tests to Arthropod Management Tests

Manuscripts Reviewed: (> 278 total, approximately 13 per year):

American Journal of Potato Science
Annals of Botany
Annals of the Entomological Society of America
Annals of Applied Biology
Archives of Insect Biochemistry and Physiology
Arthropod Structure and Development
Arthropod Plant Interactins
ASHS Journals
Australian Journal of Plant Science
Biological Control
Crop Protection
Ecology
Ecological Entomology
Entomologia Experimentalis et Applicata
Entomophaga
Journal of Agricultural and Forest Entomology
Journal of Agricultural Entomology
Journal of Animal Behavior
Journal of Applied Ecology
Journal of Chemical Ecology
Journal of Economic Entomology
Journal of Experimental Biology
Journal of Insect Behavior
Journal of Insect Science
Oecologia
Phytochemistry Reviews
Plant Journal
Proceedings of the Royal Society of London-Series B
Proceedings of the National Academy of Science
The Florida Entomologist
Trends in Ecology and Evolution

Grant Proposals Reviewed:

NSF and USDA ad hoc reviews (1-3/year from 2005 -2013)
USDA/NRI – Panel Manager – Integrated Biology of Arthropods and Nematodes 2005
USDA/NRI – ad hoc reviewer (1-3 proposals/year from 1997-2005)
NSF Ecology and Evolutionary Biology external reviews, 1999-2010 (approximately 20 reviews completed)
USDA/NRI Entomology and Nematology Panel Member, 1999
USDA/NRI Agricultural Systems Panel Member, 2001
USDA/NRI Entomology and Nematology, Biologically Based Pest Management external reviews, 1995-98, 2000-01, (3 per year), 2003 (1)
Caribbean Basin Agriculture Program (CBAG), 1994, 1995, 1998
BARD Program, 1993
USDA Special Grants Kansas State University, 1998, 2001
Maryland Agricultural Experiment Station, D. Bottrell, 2000

Outreach Service:

Presentations

Presentations to elementary schools: Julietta and Kendrick summer library program 2000, Moscow Charter School, yearly since 2004 – insect biology fun; 2007 all-day kick of to science year at the school (with L. Waits, J. Sullivan, other volunteer faculty).

Presentations to Native Plant Society (Fall 2007) and Palouse Prairie Foundation (2004, 2007, with graduate students)

Popular Press:

Eigenbrode, S. D., E. Bechinski, D. Husebye & B. Stokes. 2013. Field Decision Support Tools Online, USA Dry Pea and Lentil, *Take your Pulse*, Jan. 2013, pp 10-11.

Eigenbrode, S.D., Bechinski, E. Clayton,L., Husebye, D., Jain,S., Karasev, A. Larsen, R. McPhee, K, Pappu H., Porter, L., Roberts, D., Stokes, B., Vemulapati, B. 2010. Eyes on Legume Viruses in Palouse Region. Take Your Pulse Newsletter.

Eigenbrode, S.D., Husebye, D., Porter, L. 2010.Virus on the Palouse May Impact Yield. Pulse Pipeline, July

Eigenbrode, S. D. 2007. Aphids, Plant Viruses and Risk of Virus Infections in Peas Direct Seed Link (Newsletter for Pacific Northwest Direct Seed Assoc. Vol. 8(2): 3

Eigenbrode S. D., Bechinski, E. J. 2007. Searching for attractants to manage sugarbeet root maggots. Sugarbeet Grower Newsletter

Radio spots, Summer 2008, Winter 2011 – Virus Forecasting

Web Pages:

Philosophical Toolbox Project: http://home.cals.uidaho.edu/toolbox/

Legume Virus Project: http://www.ag.uidaho.edu/aphidtracker/index.asp

Regional Approaches to Climate Change: http://reacchpna.org

Other Professional Service:

Professional Conferences Organized:

Co-organizer (with leader, Michael O'Rourke and others). "Enhancing Communication in Cross-Disciplinary Research", an international conference, Coeur d'Alene Idaho Sept. 30, Aug. 2, 2010

Co-organizer (with J.D. Wulfhorst) and Program Chair, Annual Meeting and Symposium of the Idaho Academy of Sciences, "Science Across the Boundaries ~ Interdisciplinary Research for Natural Resource Conservation". Moscow ID, April, 2005

Symposia Organized:

Co-organizer (T. Seth Davis), "Effects of Climate Change on Organismal Interactions Involving Insects", Annual Meeting of the Pacific Branch of the Entomological Society of America, 2013, Lake Tahoe, CA, April 7, 2013

Co-organizer (A. Weed, L. Culler, T. Northfield), "Climate Change and Pestiferous Insects". Annual Meeting of the Entomological Society of America, 2012, Knoxville TN, Nov 11, 2012.

Co-organizer (M. Mescher), "Chemical Ecology of Disease". International Society of Chemical Ecology Annual Meeting, State College PA, Aug. 2008.

Co-organizer (with N. Bosque-Pérez), "Coffee insect pest management, an international perspective". International Congress of Entomology, Durban South Africa, 2008

Co-organizer (with S. Behmer, Texas A&M), "Contributions of Elizabeth Bernays to the sciences of entomology", Annual Meeting of the ESA, San Diego CA, Dec. 2007

Co-organizer (with Myron Zalucki), "Plant architecture and morphology and insects". International Congress of Entomology, Brisbane, August 2004.

Co-organizer (with T. Meade, Dow-Elanco and M. Cohen, International Rice Research Institute), "Role of Native Insect Resistance Genes in the Transgenic era", 1999 Annual Meeting Entomological Society of America, Atlanta, Georgia.

Co-organizer (with D. Bottrell, Univ. of Maryland), "Breeding and Deploying Crops to Increase Effectiveness of Natural Enemies", 1999 Annual Meeting Entomological Society of America, Atlanta, Georgia.

Co-organizer (with J.L. Spencer, Illinois Nat. Hist. Survey), "Insects and the Plant Surface", 1997 Annual Meeting Entomological Society of America.

Co-organizer (with M. Dicke, Wageningen Agric. Univ.), "Partial Plant Resistance and Biological Control", 13th International Congress of Plant Protection, The Hague, 1995.

Co-organizer (with J.C. Reese, Kansas State Univ. and S.C. Welter, U.C. Berkeley), "Tolerance in Natural and Managed Ecosystems" 1993 Annual Meeting Entomological Society of America.

Co-organizer (with K.A. Stoner, Connecticut Agr. Exp. Stn.) Plant Resistance to Insects Symposium "Interdisciplinary Communication in HPR Research" for 1991 Annual Meeting Entomological Society of America.

Reviewer for Tenure and Promotion Packages:

Cornell University, 2000; Oregon State University, 2004; University of Maine, 2006; Univ. of Arizona and Colorado State University, 2007; Oregon State University, 2009, 2012.

Speaker for SSR Workshop: Preparing Successful Grant Proposals To NRI Programs, 26 Sep. 2005, Moscow ID

Panels organized and moderated:

"Improving Cross-Disciplinary Research: Perspectives from Federal Agency Representatives" in the Enhancing Communication in Cross-Disciplinary Research international conference, Coeur d'Alene Idaho Sept. 30, Aug. 2, 2010. Representatives of NIH, NSF, NIFA and NASA contributed.

"Biological Control, Effective Strategy or Environmental Disaster". In the 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). Oct. 26, 2010

Networking events organized:

Four-State Entomology Mixer (Oregon, Washington, Montana, Idaho) at the Annual Meetings of the Entomological Society of America, annually from 2005 – 2012

PROFESSIONAL DEVELOPMENT:

Teaching:

Western Regional Teaching Symposium, Post Falls ID, Spring, 1998

Mentoring International Grad Students, Panel Discussions Sponsored by COGS, 27, Oct. 2008

Scholarship:

Workshop on Communicating Research to the Media, With Nancy Baron, at the University of Idaho, Sep. 2011

Sabbatical Leave, CATIE, Turrialba Costa Rica. 1 Aug. 2001 – 1 Jan. 2002. Worked in tropical agricultural systems, including sugar, vegetable production and organic coffee. Studied ant communities in coffee systems, improved capabilities in Spanish language written and oral communication, culminated in published article in Spanish, recruitment of Colombian Ph.D. student (Varón, graduated in 2006).

National Institutes of Health (NIH) Web-based training course "Protecting Human Research Participants", July 2008, Certification Number: 62622

Administration:

ESCOP/ACOP Training, Phase I (Indianapolis) and II (Washington DC) 2004, Phase III 2005

OTHER ACTIVITIES:

Workshops on the philosophical dimensions of communication in collaborative science. Each workshop involves facilitating discussion based on a set of prompts specifically formulated to elicit conversation concerning philosophical aspects of the research process, as developed in Eigenbrode et al. (2007).

- Lecture on concept, Social Ecological Synthesis Center (SESYNC), Annapolis MD, June 2013
- Introductory discussion, Dartmouth College IGERT, March 2013
- One team of professionals as part of the ECCDR conference in 2010
- One team of faculty members, The Ohio State University, 2009
- Five teams of faculty members, Cornell University, 2009
- Four teams of IGERT students, 2006
- Two teams of Waters of the West MS Program Students, 2007
- Three teams of Waters of the West Program Students, 2008
- Waters of the West Faculty Team, 2006 and 2008
- IPEM IGERT (WSU and UW), Dec. 2008
- BANTech faculty team (UI), Nov. 2008
- One IGERT team, Cornell, Sep. 2008
- One team of students from the Department of Natural Resources, Cornell, Sep. 2008