

CURRICULUM VITAE

NAME

Bjostad, Louis B

ADDRESS

Bioagricultural Sciences and Pest Management
College of Agricultural Sciences

Plant Sciences

PHONE

(970) 491-5987

EDUCATION

1978 Ph D, U OF CALIFORNIA

1973 BS, WILLIAM & MARY

OTHER POSITIONS

1995 - Present Professor, BSPM Dept., Colorado State University.

1989 - 1995 Associate Professor, Entomology Dept., Colorado State University.

PUBLISHED WORKS

Refereed Journal Articles

Bernklau, E. J., Hibbard, B. E., Dick, D. L., Rithner, C. D., Bjostad, L. B. (2015). Monogalactosyldiacylglycerols as Host Recognition Cues for Western Corn Rootworm Larvae (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, 108(2), 539-548. <Go to ISI>://WOS:000355283600018

(2010). Antixenosis in Maize Reduces Feeding by Western Corn Rootworm Larvae (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, 103, 2052-2060.

(2009). Localized Search Cues in Corn Roots for Western Corn Rootworm (Coleoptera). *J Econ Entomol*, 102, 558-562.

(2008). Identification of feeding stimulants in corn roots for western corn rootworm (Coleoptera). *J Econ Entomol*, 101, 341-351.

(2006). Field attraction of termites to a carbon dioxide-generating bait in Australia (Isoptera). *Sociobiology*, 48, 771-779.

(2006). Ultraviolet light induced autophototoxicity and negative phototaxis in Reticulitermes termites (Isoptera). *Sociobiology*, 48, 27-49.

(2005). Antimicrobial activity of the termite (Isoptera) alkaloid norharmane against the entomopathogenic fungus *Metarhizium anisopliae*. *Sociobiology*, 46, 563-577.

(2005). Attraction of subterranean termites (isoptera) to carbon dioxide. *J Econ Entomol*, 98, 476-484.

- (2005). Endosymbiont biosynthesis of norharmane in *Reticulitermes* termites (Isoptera). *Sociobiology*, 45, 687-705.
- (2005). Insecticide enhancement with feeding stimulants in corn for western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 98, 1150-1156.
- (2005). Isolation and characterization of norharmane from *Reticulitermes* termites (Isoptera). *J Econ Entomol*, 98, 1669-1678.
- (2004). Disruption of host location of western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 97, 330-339.
- (2004). Testing the blank slate hypothesis. *Insect Soc*, 51, 16-Dec.
- (2001). A new state record for *Trogoderma teukton* (Coleoptera). *Entomol News*, 112, 281-284.
- (1998). Behavioral responses of first-instar western corn rootworm (Coleoptera). *J Econ Entomol*, 91, 444-456.
- (1998). Reinvestigation of host location by western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 91, 1331-1340.
- (1997). Electroantennogram-active components in buffalo gourd root powder for western corn rootworm adults (Coleoptera). *Environ Entomol*, 26, 1136-1142.
- (1997). Electroantennogram-active components of maize silk for adults of the western corn rootworm (Coleoptera). *Environ Entomol*, 26, 285-295.
- (1997). Pentanoic acid attracts *Ocella parva* (Adams) (Diptera). *J Kansas Entomol Soc*, 70, 67-69.
- (1997). Structure-activity study with haloalkane attractants of western corn rootworm (Coleoptera). *J Entomol Sci*, 32, 91-105.
- (1996). Behavioral and physiological responses of *Diaeretiella rapae* to semiochemicals. *Entomol Exp Appl*, 78, 187-196.
- (1996). Dichloromethane attracts diabroticite larvae in a laboratory behavioral bioassay. *J Chem Ecol*, 22, 1331-1344.
- (1996). Electroantennogram responses of western corn rootworm (Coleoptera). *Environ Entomol*, 25, 430-435.
- (1996). *Hesperophylax occidentalis* (Trichoptera). *J Chem Ecol*, 22, 123-137.
- (1996). Sex pheromone of caddisfly *Hesperophylax occidentalis* (Banks) (Trichoptera). *J Chem Ecol*, 22, 103-121.
- (1995). Germinating Corn Extracts and 6-Methoxy-2-Benzoxazolinone - Western Corn-Rootworm (Coleoptera, Chrysomelidae) Larval Attractants Evaluated with Soil Insecticides. *J Econ Entomol*, 88, 716-724.
- (1995). Interfamily Variation in Comb Wax Hydrocarbons Produced by Honey-Bees. *J Chem Ecol*, 21, 1329-1338.
- (1995). The Role of Wax Comb in Honey-Bee Nestmate Recognition. *Anim Behav*, 50, 489-496.

- (1994). Leaf Unrolling of 3 Wheat Genotypes in Russian Wheat Aphid Extracts. *Cereal Res Commun*, 22, 375-379.
- (1994). Long-Chain Free Fatty-Acids - Semiochemicals for Host Location by Western Corn-Rootworm Larvae. *J Chem Ecol*, 20, 3335-3344.
- (1994). Tolerance of Western Corn-Rootworm Larvae (Coleoptera, Chrysomelidae) to 6-Methoxy-2-Benzoxazolinone, a Corn Semiochemical for Larval Host Location. *J Econ Entomol*, 87, 647-652.
- (1993). Application of Semiochemicals in Integrated Pest-Management Programs. *Acs Sym Ser*, 524, 199-218.

Non-Refereed Journal Articles

- Seshadri, A., Bjostad, L. B., Bernklau, E. J. Effects of drought stress on the nutritive value of pollen in Canola. *Journal of Plant-Animal interactions*.
- Bernklau, E. J., Hibbard, B. E., Bjostad, L. B. (2013). Isolation and Characterization of Host Recognition Cues in Corn Roots for Larvae of the Western Corn Rootworm (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, 106(6), 2354-2363. <Go to ISI>://WOS:000329991200015
- Hiltpold, I., Bernklau, E. J., Bjostad, L. B., Alvarez, N., Miller-Struttman, N., Lundgren, J., Hibbard, B. (2013). Nature, evolution and characterisation of rhizospheric chemical exudates affecting root herbivores. *Advances in Insect Physiology*, 45, 97-157.
- Bernklau, E. J., Bjostad, L. B., Hibbard, B. E. (2011). Synthetic feeding stimulants enhance insecticide activity against western corn rootworm larvae, *Diabrotica virgifera virgifera* (Coleoptera: Chrysomelidae). *Journal of Applied Entomology*, 135(1-2), 47-54. <Go to ISI>://WOS:000286112700006

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

- November 18, 2014, "Host location behavior of western corn rootworm - ESA", Annual Meeting, Entomological Society of America, Portland, Oregon.
- April 15, 2014, "Chemical ecology of host selection in *Diabrotica* - IWGO", IWGO Meeting (International Working Group on Ostrinia & Other Corn Pests), (Presenter) Bernklau, E. J., Chicago, Illinois.
- 2011, "Host recognition cues from maize for western corn rootworm larvae. November 2011. Annual meeting of the Entomological Society of America. Reno, Nevada."
- 2010, "Bernklau, E. J. Hibbard, B. E. Bjostad, L. B. 2010. Host selection by western corn rootworm larvae: behavior and chemistry. USDA-NIFA Workshop. Washington, D.C. March 2010."
- 2010, "Bernklau, E. J.; Hibbard, B. E.; Bjostad, L.B. 2010. Maize with behavioral resistance to western corn rootworm larvae. Entomol. Soc. Amer.

meeting, San Diego, December 2010."

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2016	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	165
2016	Spring	BSPM570 - Chemical Ecology	3	12
2016	Spring	BSPM571 - Techniques in Chemical Ecology	1	5
2015	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	219
2015	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	129
2015	Spring	BSPM507 - Insect Behavior	3	16
2014	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	220
2014	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	219
2014	Spring	BSPM570 - Chemical Ecology	3	8
2014	Spring	BSPM571 - Techniques in Chemical Ecology	1	0
2013	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	228
2013	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	231
2013	Spring	BSPM507 - Insect Behavior	3	14
2012	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	192
2012	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	49
2012	Fall	BSPM495 - Independent Study	3	6
2012	Summer	BSPM495 - Independent Study	3	1
2012	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	174
2012	Spring	BSPM570 - Chemical Ecology	3	13
2012	Spring	BSPM495 - Independent Study	3	3
2012	Spring	BSPM571 - Techniques in Chemical Ecology	1	7
2011	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	204
2011	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	31
2011	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	222
2011	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	15
2011	Spring	BSPM507 - Insect Behavior	3	16
2011	Spring	BSPM102 - Insects, Science, and Society (GT-SC2)	3	196
2010	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	224
2010	Fall	BSPM794 - Independent Study	3	1
2010	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	259
2010	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	12
2010	Spring	BSPM570 - Chemical Ecology	3	7
2010	Spring	BSPM102 - Insects, Science, and Society (GT-SC2)	3	180
2010	Spring	BSPM571 - Techniques in Chemical Ecology	1	4
2009	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	296
2009	Spring	BSPM507 - Insect Behavior	3	15
2009	Spring	BSPM102 - Insects, Science, and Society (GT-SC2)	3	182
2008	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	196
2008	Spring	BSPM570 - Chemical Ecology	3	7
2008	Spring	BSPM102 - Insects, Science, and Society (GT-SC2)	3	240
2008	Spring	BSPM571 - Techniques in Chemical Ecology	1	3

Guest Lectures:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2014	Spring	HORT454 - Horticulture Crop Production & Management	1	

2013	Spring	HORT454 - Horticulture Crop Production & Management	1
2013	Spring	BSPM451 - Integrated Pest Management	1

COMMITTEES

Information Technology Executive Committee.

Scholarship Committee.

Student Affairs Committee.

Tenure & Promotion Committee, (September 1, 2013 - Present).

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

USDA Regional Committee NCCC46, Minneapolis, MN. (2012 - Present).

Committee Chair, USDA/NIFA, Bioenergy Panel. (2010 - Present).

Reviewer, Grant Panel, USDA/NIFA Nanotechnology for Agriculture and Food Systems Grant Panel, Washington, DC. (June 26, 2014).

Member, Executive Committee. (2011 - 2012).

Member, Information Technology Executive Committee. (2011 - 2012).

Member, Student Affairs Committee. (2011 - 2012).

Member, Scholarship Committee. (2003 - 2012).
