

## **CURRICULUM VITAE**

### **NAME**

Louis Bjostad

### **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

### **ACADEMIC POSITIONS**

2017-2018 - Professor (College of Agricultural Sciences)

2016-2017 - Professor (College of Agricultural Sciences)

2015-2016 - Professor and Interim Department Head (College of Agricultural Sciences)

2014-2015 (College of Agricultural Sciences)

2012-2013 (College of Agricultural Sciences)

2011-2012 (College of Agricultural Sciences)

2010-2011 (College of Agricultural Sciences)

2009-2010 (College of Agricultural Sciences)

### **OTHER POSITIONS**

1995 - Present Professor, BSPM Dept., Colorado State University, Fort Collins, CO, United States.

1989 - 1995 Associate Professor, Entomology Dept., Colorado State University, Fort Collins, CO, United States.

1984 - 1989 Assistant Professor, Entomology Dept., Colorado State University, Fort Collins, CO, United States.

### **PUBLISHED WORKS**

#### **Refereed Journal Articles**

Seshadri, A., Bjostad, L. B., Bernklau, E. J. Metabolomics of bee hive pollen and crop pollen. *Metabolomics.*,  
Peer Reviewed/Refereed

- 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, Peer Reviewed/Refereed
- (2010). Antixenosis in Maize Reduces Feeding by Western Corn Rootworm Larvae (Coleoptera: Chrysomelidae). *Journal of Economic Entomology*, 103, 2052-2060., Peer Reviewed/Refereed
- (2009). Localized Search Cues in Corn Roots for Western Corn Rootworm (Coleoptera). *J Econ Entomol*, 102, 558-562., Peer Reviewed/Refereed
- (2008). Identification of feeding stimulants in corn roots for western corn rootworm (Coleoptera). *J Econ Entomol*, 101, 341-351., Peer Reviewed/Refereed
- (2006). Field attraction of termites to a carbon dioxide-generating bait in Australia (Isoptera). *Sociobiology*, 48, 771-779., Peer Reviewed/Refereed
- (2006). Ultraviolet light induced autophototoxicity and negative phototaxis in Reticulitermes termites (Isoptera). *Sociobiology*, 48, 27-49., Peer Reviewed/Refereed
- (2005). Antimicrobial activity of the termite (Isoptera) alkaloid norharmane against the entomopathogenic fungus *Metarhizium anisopliae*. *Sociobiology*, 46, 563-577., Peer Reviewed/Refereed
- (2005). Attraction of subterranean termites (isoptera) to carbon dioxide. *J Econ Entomol*, 98, 476-484., Peer Reviewed/Refereed
- (2005). Endosymbiont biosynthesis of norharmane in Reticulitermes termites (Isoptera). *Sociobiology*, 45, 687-705., Peer Reviewed/Refereed
- (2005). Insecticide enhancement with feeding stimulants in corn for western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 98, 1150-1156., Peer Reviewed/Refereed
- (2005). Isolation and characterization of norharmane from Reticulitermes termites (Isoptera). *J Econ Entomol*, 98, 1669-1678., Peer Reviewed/Refereed
- (2004). Disruption of host location of western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 97, 330-339., Peer Reviewed/Refereed
- (2004). Testing the blank slate hypothesis. *Insect Soc*, 51, 16-Dec., Peer Reviewed/Refereed
- (2001). A new state record for *Trogoderma teukton* (Coleoptera). *Entomol News*, 112, 281-284., Peer Reviewed/Refereed
- (1998). Behavioral responses of first-instar western corn rootworm (Coleoptera). *J Econ Entomol*, 91, 444-456., Peer Reviewed/Refereed
- (1998). Reinvestigation of host location by western corn rootworm larvae (Coleoptera). *J Econ Entomol*, 91, 1331-1340., Peer Reviewed/Refereed
- (1997). Electroantennogram-active components in buffalo gourd root powder for western corn rootworm adults (Coleoptera). *Environ Entomol*, 26, 1136-1142., Peer Reviewed/Refereed
- (1997). Electroantennogram-active components of maize silk for adults of the western corn rootworm

- (Coleoptera). *Environ Entomol*, 26, 285-295., Peer Reviewed/Refereed
- (1997). Pentanoic acid attracts *Ocella parva* (Adams) (Diptera). *J Kansas Entomol Soc*, 70, 67-69., Peer Reviewed/Refereed
- (1997). Structure-activity study with haloalkane attractants of western corn rootworm (Coleoptera). *J Entomol Sci*, 32, 91-105., Peer Reviewed/Refereed
- (1996). Behavioral and physiological responses of *Diaeretiella rapae* to semiochemicals. *Entomol Exp Appl*, 78, 187-196., Peer Reviewed/Refereed
- (1996). Dichloromethane attracts diabroticite larvae in a laboratory behavioral bioassay. *J Chem Ecol*, 22, 1331-1344., Peer Reviewed/Refereed
- (1996). Electroantennogram responses of western corn rootworm (Coleoptera). *Environ Entomol*, 25, 430-435., Peer Reviewed/Refereed
- (1996). *Hesperophylax occidentalis* (Trichoptera). *J Chem Ecol*, 22, 123-137., Peer Reviewed/Refereed
- (1996). Sex pheromone of caddisfly *Hesperophylax occidentalis* (Banks) (Trichoptera). *J Chem Ecol*, 22, 103-121., Peer Reviewed/Refereed
- (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., Peer Reviewed/Refereed
- (1995). Interfamily Variation in Comb Wax Hydrocarbons Produced by Honey-Bees. *J Chem Ecol*, 21, 1329-1338., Peer Reviewed/Refereed
- (1995). The Role of Wax Comb in Honey-Bee Nestmate Recognition. *Anim Behav*, 50, 489-496., Peer Reviewed/Refereed
- (1994). Leaf Unrolling of 3 Wheat Genotypes in Russian Wheat Aphid Extracts. *Cereal Res Commun*, 22, 375-379., Peer Reviewed/Refereed
- (1994). Long-Chain Free Fatty-Acids - Semiochemicals for Host Location by Western Corn-Rootworm Larvae. *J Chem Ecol*, 20, 3335-3344., Peer Reviewed/Refereed
- (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., Peer Reviewed/Refereed
- (1993). Application of Semiochemicals in Integrated Pest-Management Programs. *Acs Sym Ser*, 524, 199-218., Peer Reviewed/Refereed

### **Non-Refereed Journal Articles**

- 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, Not Peer Reviewed/Refereed
- 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., Not Peer Reviewed/Refereed*

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, Not Peer Reviewed/Refereed

Carmichael, L. M., Moore, J. K., Bjostad, L. B. (1993). Parasitism and decreased response to sex pheromones in male *Periplaneta americana* (Dictyoptera: Blattidae). *Journal of insect behavior, 6*(1), 25–32., Not Peer Reviewed/Refereed

**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>
2017	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	320
2017	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	295
2017	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	201
2017	Spring	LIFE102 - Attributes of Living Systems (GT-SC1)	4	1
2017	Spring	BSPM507 - Insect Behavior	3	5
2016	Fall	LIFE102 - Attributes of Living Systems (GT-SC1)	4	270
2016	Fall	BSPM794 - Independent Study	3	5
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	Horticulture-HORT454 - Horticulture Crop Production & Management	1	
2013	Spring	Horticulture-HORT454 - Horticulture Crop Production & Management	1	
2013	Spring	Bioag'l Sci & Pest Mgmt-BSPM451 - Integrated Pest Management	1	

#### Evidence of Teaching Effectiveness (Annual Input)

##### Other Evidence

Fall 2013, LIFE 102–Attributes of Living Systems (GT-SC1)

**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).

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