

## Sue L. Blodgett

### Education:

Ph.D., Entomology, Kansas State University, Manhattan, KS  
M.S., Entomology, Kansas State University, Manhattan, KS  
M.S., Vegetable Crops (Major), Agronomy (Minor), Cornell University, Ithaca, NY  
B.S., Biology, Syracuse University, Syracuse, NY

### Additional Academic/Professional Training:

2007 Recently Appointed Administrators Workshop, Lincoln, NE June 2007  
ESCOP/ACOP Leadership Training, Class X. Indianapolis, IN 2000.

### Professional Experience:

#### **Sept 2011-present: Department Chair Entomology and Natural Resource Ecology and Management (NREM), Iowa State University.**

Provide leadership and vision for the Entomology and Natural Resource Ecology and Management Departments; creation and implementation of the business office that services both departments. Resource management includes space resources in five campus buildings, budget oversight, and personnel management.

#### **Accomplishments:**

- Establishment of NREM/ENT Business office:
  - clerical staff integrated into one business office that included streamlining office procedures
  - harmonizing administrative procedures,
  - re-training and redirecting staff.
  - Supporting staff professional development opportunities on and off campus.

#### **Feb 2007 – present: Department Head. Plant Science Department, South Dakota State University.**

**Appointment:** 15% Instruction, 10% CES, 75% AES

Responsible for all management duties of Plant Science Department at South Dakota State University; including research, instruction and extension programs, Foundation Seed Stock Division, Soil and Plant Tissue Testing Laboratory, Seed Testing Laboratory and field research operations.

Special achievements include the following:

- Funded and built Seed Technology Laboratory (STL) building on SDSU Innovation Campus (\$6.5 million) completed in fall 2010 that houses greenhouse space, bio-containment facility, South Dakota Crop Improvement Association, Seed Testing Laboratory, and modern laboratory research facilities.
- Leadership for \$1.0 million Monsanto Plant Breeding Ph.D. Fellowship Program with Michigan State University.
- Leadership team for a \$4.5 million Bayer Crops Science/Ducks Unlimited grant with NDSU and University Minnesota, in support of winter wheat breeding at SDSU.
- Managed a total budget of approximately \$4 Million with 45 faculty
- Doubled granting success from \$2.7 million (2007) to \$5.66 million (2010). The Plant Science Department is ranked 1<sup>st</sup> among SDSU departments in grant funds obtained, FY09 and FY10.
- Developed and strengthened working relationships with South Dakota commodity organizations; SD Wheat Commission, SD Corn Utilization Council, SD Crop Improvement Association, SD Oilseed Council, SD Soybean Research and Promotion Council, SD Foundation Seed Stock Division.

### Academics

- Increased graduate student numbers from 26 (2006) to 63 (2010)
- Increased undergraduate enrollment from 122 (2008) to 180 (2010)
- Increased activities in recruitment, retention, advising, and assessment.
- Revised departmental specializations; developed new minor in Soil Science

**July 2005 – Jan 2007: Professor (50% Extension / 50% Research), Montana State University**

35% Department of Plant Science and Plant Pathology (Extension)  
65% Department of Animal and Range Sciences (Research & Extension)  
MSU-ES-IPM Coordinator  
MSU-ES-WSARE-PDP (Professional Development Program) Coordinator

**Jun 1999- Jun 2005: Associate Professor, IPM Coordinator/Extension Specialist/WSARE Professional Development Program Coordinator.** Extension ~50%, Research ~50%, Montana State Univ. Dept Entomology, Bozeman, MT

**March 2002 – June 2002: Acting Department Head.** Montana State University, Department Entomology, Bozeman, MT.

**Jun 1994-1999: Assistant Professor, IPM Coordinator/Extension Specialist**  
Extension 80%, Research 20%, Montana State Univ. Dept Entomology, Bozeman, MT

**Apr 1992-May 1994: Extension Specialist/Postdoctoral Research Associate,** Colorado State University, Department of Entomology (now: Bio Agricultural Sciences and Pest Management), Fort Collins, CO. .

**Oct 1989-Jan 1992: North Coast IPM Advisor,** University of California IPM Statewide Project, Davis, CA. Frank Zalom, Director

**Refereed Publications (selected 2008-present):**

Rand, Tatyana A., Deb K Waters, **Sue L Blodgett**, Janet J Knodel and Marion O Harris. 2014. Increased area of a highly suitable host crop increases herbivore pressure in intensified agricultural landscapes. *Agriculture, Ecosystems and Environment* 186: 135-143.

Lenssen, A.W., D. S. Long, W. E. Grey, **S. L. Blodgett**, H. B. Goosey. 2013. Spring Wheat Production and Associated Pests in Conventional and Diversified Cropping Systems in North Central Montana. *Crop Management* . DOI 10.1094/CM-2013-0017-RS

Lenssen, A.W., W.M. Iversen, U.M. Sainju, TC. Caesar-TonThat, **S.L. Blodgett**, B. Allen, and R.G. Evans. 2012. Yield, Pests, and Water Use of Durum and Selected Crucifer Oilseeds in Two-year Rotations. *Agronomy Journal*. 104:1295-1304.

Pearce, A. M., K.M. O'Neill, R. S. Miller, and **S. Blodgett**. 2012. Diversity of flower-visiting bees and their pollen loads on a wildflower seed farm in Montana. *J. Kansas Entomol. Soc.* 85: 97-108.

Lenssen, A.W., D.C. Cash, P.G. Hatfield, U.M. Sainju, W.R. Grey, **S.L. Blodgett**, H.B. Goosey, and G.D. Johnson. 2010. Yield, Quality, Water and Nitrogen Use of Durum and Selected Annual Forages in Two-year Rotations. *Agronomy Journal* 102:1261-1268.

Ritter, R., A. W. Lenssen, **S. Blodgett** and M. Taper. 2010. Regional Assemblages, *Lygus* (Heteroptera: Miridae) in Montana canola fields. *J. Kansas Entomol. Soc.:* 83: 297-305.

O'Neill, K.M., **S. Blodgett**, B. E. Olson, and R. S. Miller. 2008. Impact of livestock grazing on abundance

of Miridae and Reduviidae (Hemiptera) in Crested Wheatgrass pastures. J. Econ. Entomol. 101: 309-311.

**Other Publications:**

Hartzler, B., **S. Blodgett**, S. Bradbury, R. Hellmich. 2015. The Iowa Monarch Conservation Consortium. Integrated Crop Management News.

**Blodgett, S. L.** 2013. One Hundred Years Later: A Photo Collection Returns to ISU. Ames Forester Vol 100:

**Blodgett, S.L.** 2013. J.C. Whitham 1888-1963. Ames Forester Vol 100:

Drown, R., M. Fanning, S. Huber. T.J. Swan and **S. Blodgett**. 2011. Black Grass Bugs in South Dakota, SDCES ExEx No. FS967.

P. Hatfield, H. Goosey, A. Lenssen, and **S. Blodgett**. 2011. Sheep grazing to manage crop residues, insects and weeds in northern plains grain and alfalfa systems. National SARE Fact Sheet <http://www.sare.org/Learning-Center/Fact-Sheets/National-SARE-Fact-Sheets/Sheep-Grazing-to-Manage-Crop-Residues-Insects-and-Weeds-in-Northern-Plains-Grain-and-Alfalfa-Systems> 8 pp.

Tilmon, K. and S. Blodgett. 2007. Testing the Speed Scouting Method for Soybean Aphid threshold Decision-making in South Dakota. SDSU Southeast Research Center Report.

Blodgett, S. 2008. High Plains IPM Guide. Video internet presentation <https://insidestate.sdstate.edu/extension/ces/Lists/sampleextensionpresentations/AllItems.aspx>

**Grants Funded:**

Iowa Soybean Association. Establishing Monarch Breeding Habitat as Bioreactor Groundcover. B. Hartzler, S. Bradbury, S. Blodgett, \$75,000. 2015-2018.

USDA, Iowa, NRCS, CIG. Integrating Nutrient Reduction and Monarch Conservation, S. Bradbury (PD), D. Debinski, S. Blodgett, R. Hartzler, T. Isenhardt, J. Pleasants. \$75,000. 2015-2018.

USDA, NRCS, CIG. Enhancing Monarch butterfly Conservation in Iowa. S. Blodgett (PD), R. Hartzler, D. Debinski, S. Bradbury. \$760,897. 2015-2018.

USDA, NIFA, McIntire-Stennis. S. Blodgett, administrator, \$427,701 (FY12), \$427,701 (FY13), \$427,701 (FY14), \$427,701 (FY15)

USDA, NIFA, RREA. 2011, 2012. Renewable Resources Extension Act Program – Iowa. S. Blodgett, administrator, \$46,267 (FY12) \$45,887(FY13), \$45,887(FY14).

ISU VPEO Strategic Initiatives Proposal. 2013. Developing an ISU Consumer-Centered Corn and Soybean Production and Pest Management Web Page. Blodgett, Baum, Lamkey. \$122,937.

SD Wheat Commission. 2008-2010. Graduate student assistantship. **S. Blodgett** \$18,500/yr.

USDA-WSARE, 2008-2009. Developing a free on-line excel-based enterprise budget decision support program to evaluate the incorporation of sheep into farming systems as an alternative to pesticide and mechanical methods of weed and insect control. \$10,000. Hatfield, Griffith, Lenssen, Goosey, **Blodgett**.

USDA-CSREES IPM. 2008-2010. Using sheep in grain fallow management to control weeds and reduce use of pesticides and fossil fuels. \$60,000. Hatfield, Lenssen, Goosey, **Blodgett**.

USDA, CSREES, Special Grant, Seed Technology. 2008-2010 **S. Blodgett**, D. Clay, \$257,000/yr.

US Wheat and Barley Scab Initiative, 'Winter Wheat Breeding for Scab Resistance in South Dakota, **S. Blodgett** & W. Berzonsky, \$51,446

Monsanto Graduate Fellowships in Plant Breeding, Monsanto Corp. \$1million (2009-2014)

Bayer Crop Sciences and Ducks Unlimited grant for Improvements in Winter Wheat. W. Berzonsky and **S. Blodgett**. \$731,000. 2010-2014

WRIPM. Using Sheep in Grain Fallow Management to Control Weeds and Insect Pests and Reduce Use of Pesticides and Fossil Fuels' Hatfield, Kott, Lenssen, Goosey, **Blodgett**. \$60,000 2008-2010.

SDSU Visiting Instructors, 2008-2009. collaboration between Apresid and Monsanto, funded by Monsanto, \$100,000. **Blodgett**, Isakson, Gonzalez.

NCIPM. 2008-2009. SDSU-NDSU Soybean Forum, Special Grant. K. Tilmon, J. Knodel, I. MacRae, D. Deneke, **S. Blodgett**. \$10,000

USDA,WSARE. 2007-2010. Evaluation of Alfalfa Weevil (Coleoptera Curculionidae) Densities, Weed Abundance, and Regrowth Characteristics of Alfalfa Grazed by Sheep. Hatfield, Goosey, **Blodgett**. \$96,817

#### **Presentations:**

**Blodgett, S.**, S. Bradbury, R. Hellmich, R. Hartzler, D. Debinski, J. Pleasants, T. Blader, V. Pocius, T. Grant, W. Wintersteen & M. Honeyman. 2016. Progress in Monarch Butterfly Conservation in Iowa, ICE/ESA Orland, FL

Bitzer, R., T. Blader, **S. Blodgett** & R. Hellmich. 2016. Multivariate analysis to assess potential oviposition and larval preferences of Monarch butterflies (*Danaus plexippus*) on roadside milkweeds. ICE/ESA, Orlando, FL

T. Blader, V. Pocius, K. Bidne, **S. Blodgett**, S. Bradbury, D. Debinski, R. Hartzler, R. Hellmich, M. Honeyman, L. Jesse, D. R. Lewis, J. Pleasants and W. Wintersteen. 2015. Iowa Monarch Conservation Consortium (IMCC): stepping up to the front lines of habitat restoration. ESA, Minneapolis, MN.

VanDyk J. Laura Jesse and **S. Blodgett**. 2015. The State of BugGuide: Past, Present, and Future. Entomological Society of America, Minneapolis, MN.

T. Blader, R. Hellmich, **S. Blodgett**, S. Bradbury<sup>1</sup>, R. Moranz<sup>1</sup>, J. Pleasants, & D. Debinski. 2015. Does density of host plant (*Asclepias syriaca*) influence monarch butterfly (*Danaus plexippus*) oviposition? Entomological Society of America, Minneapolis, MN.

Philips, C.R., H. Atthowe, J. Asplund, **S. Blodgett**, A. Stone, and W. E. Snyder. 2015. Integrating predatory arthropods, scouting, and selective organic insecticides to control the pest caterpillar *Pieris rapae*, ESA-NCB, Manhattan, KS

S. Blodgett, 2014. Entomological Society of America, Portland, OR. Symposium entitled. 'Finding the best fit for you: Career opportunities for entomologists in Industry, Academia, Military, and Government'

Blodgett, S. and D. Wright. 2014. Getting to Yes: A career in academia. Entomological Society of America, Portland, OR.

**Blodgett, S.**, R. O'Neill, C. Tharp, K. O'Neill and K. Kephart. 2008. Biopesticide Control of Alfalfa Insect Pests and Impacts on Natural Enemies. PBESA Meeting

### **Recognition**

Elected North Central Branch ESA Chair-Elect 2013; Chair 2014

Appointed North Central Regional Aquaculture Committee (NCRAC), Board of Directors (2011-2013)

Appointed NCAC -010 Forestry and Forest Products Administrators, 2011-present

Appointed NCAC-0023 Fisheries and Wildlife Administrators, 2011-present.

Member, NAUFRP National Association of University Forest Resource Program Directors (2011-present)

Kansas State University Entomology Department Distinguished Alumnus, 2011.

Elected Reporter/Chair Elect, Chair NCAC-15 Entomology Department Heads, 2010-2012.

Appointed Administrative Advisor, NC1032, Characterizing active soil organic matter pools controlling soil N availability in maize-based cropping systems, 2008-present.

### **Membership in Professional Societies**

Entomological Society of America:

Sigma Xi

Central States Entomological Society

### **University, College, and Department Service:**

Elected, ISU Provost Chair's Cabinet

Member, ISU PRS Review Team, 2014

Member of Global Resource Systems program, 2011-present

### **Graduate Student Training:**

Teresa Blader, M.S. Co-major Advisor, 2016-present

Victoria Pocius, Ph.D. EEB, POS Committee Member, 2015-present