

## **Charles C. Coslor, PhD**

### **Pest Biologist II, Entomology Coordinator**

Washington State University  
WSU Skagit County Extension  
11768 Westar Lane, Suite A, Burlington WA 98233

Office: (360) 395-2366  
Cell: (509) 339-5721  
Email: ccoslor@wsu.edu

### **Education**

- 2017 Ph.D. in Entomology, Michigan State University  
Refining Trunk Injection Strategies for Control of Foliar Insect Pests and Disease in Michigan Apple Orchards.
- 2013 M.S. in Entomology, Washington State University.  
Effects of Neonicotinoids on Adult and Immature *Drosophila suzukii* in the Laboratory and in an Experimental Blueberry Field.
- 2010 B.S. in Biology, focus in Entomology, Washington State University, 2010

### **Experience**

- 2018-Present Entomology Coordinator/Pest Board Coordinator, Washington State University, WSU Skagit County Extension. Operate the Horticultural Pest Control Board, provide pest reports to growers, maintain traps in the field, assist the public with insect-related questions, and conduct research as needed.
- 2022 Quality Assurance, Wallace Farms. Worked on the floor and sampled potatoes for quality assurance, demonstrated adaptability in a fast-paced environment.
- 2018-2020 Postdoc, Washington State University, WSU NWREC. Designed and ran lab and field experiments, applied pesticides, collected and analyzed data, prepared grant reports, and maintained insect colonies.
- 2016 Teaching Assistant, Michigan State University. Assisted in graduate-level immature insect taxonomy class, provided guidance in insect identification.
- 2013-2019 Professional Aide/Graduate Research Assistant, Michigan State University, Applied Insecticide Toxicology Laboratory & Trevor Nichols Research Center. Designed and conducted field studies, performed insect bioassays, applied experimental pesticides, ran statistical analyses in SAS, and trained technicians in field data collection and lab procedures.
- 2010-2013 Graduate Research Assistant, Washington State University Northwest Research and Extension Center. Performed bioassays, monitored insect pest populations, applied pesticides in the laboratory and field, ran statistical analyses, provided entomological advice to the public.
- 2011 Teaching Assistant, University of Idaho. Guided students in insect identification and set up lab activities for a graduate-level adult insect taxonomy class.

### **Skills**

Experienced at designing and conducting field and laboratory experiments including spray trials.

Fully licensed with WSDA as a Public Operator and Demonstration and Research Applicator, under Agricultural Weed and Agricultural Insect and Disease categories.

Expertise in integrated crop management and knowledge of agricultural systems in Washington state, especially Skagit, Whatcom, and Snohomish counties.

Strong teaching, advising, and mentoring skills with a commitment to diversity, equity, and inclusion.

Excellent oral and written communication skills, with experience disseminating information through social media.

Proficient in statistical analysis tools (SAS) and other software (Microsoft Office Suite).

## Teaching

- |           |   |
|-----------|---|
| 2023      | Insect Field Day with Dr. Charlie Coslor. “Camp Outside the Box”, Wraparound with Intensive Services (WISe) for Youth with High Mental Needs, Compass Health, Mount Vernon, WA. 13 July 2023. |
| 2023      | Invasive Insects in Washington State. Country Living Expo & Cattlemen’s Winterschool. WSU Extension. 27 January 2023.   |
| 2022      | Bugs in the Garden. Edgewater Garden Club, Bow, WA. 20 October 2022.  |
| 2022      | Entomology (A Primer). WSU Skagit County Master Gardeners Training.   |
| 2019-2021 | Insect Management. Cultivating Success, WSU Snohomish County Extension.   |
| 2019      | The World of Insects – Ask an Entomologist. “Studying Insects!” Centennial Elementary, Mount Vernon, WA. 20 March 2019.   |
| 2016      | Teaching Assistant, Michigan State University. Immature Insects. Assisted in graduate-level immature insect taxonomy class, provided guidance in insect identification.                       |
| 2011      | Teaching Assistant, University of Idaho. Insect taxonomy. Guided students in insect identification and set up lab activities for a graduate-level adult insect taxonomy class.                |

## Publications

Coslor, C., Vandervoort, C., & Wise, J. C. (2019). Insecticide dose and seasonal timing of trunk injection in apples influence efficacy and residues in nectar and plant parts. *Pest Management Science*, 75(5), 1453-1463. DOI: 10.1002/ps.5268

Coslor, C., Sundin, G., & Wise, J. C. (2019). The efficacy of trunk injections of emamectin benzoate and phosphorous acid for control of obliquebanded leafroller and apple scab on semi-dwarf apple. *Crop Protection*, 118, 44-49. DOI: 10.1016/j.cropro.2018.12.012

Coslor, C., Vandervoort, C., & Wise, J. C. (2018). Control of insect pests using trunk injection in a newly established apple orchard. *International Journal of Fruit Science*, 19(2), 151-164. DOI: 10.1080/15538362.2018.1501634

## Presentations and Posters

Coslor, C. Skagit County Horticultural Pest Board: 2022 Summary. Skagit County Board of County Commissioners. Mount Vernon, WA. 2023.

Coslor, C. Management of *Delia* spp. Root Maggots. Western WA Seed Workshop. WSU Mount Vernon NWREC. 14 January 2022.

Coslor, C. Skagit County Horticultural Pest Board: 2021 Summary. Skagit County Board of County Commissioners. Mount Vernon, WA. 2021.

Coslor, C, H. Spitler, K. Scott, B. Diehl and B. Gerdeman. Mating disruption of obliquebanded leafroller, *Choristoneura rosaceana* Harris (Lepidoptera: Tortricidae), in a Washington State highbush blueberry field. Pacific Branch Meeting, Entomological Society of America. 20 April 2020. (Virtual Poster)

Coslor, C, H. Spitler, B. Diehl, K. Scott, and B. Gerdeman. 2020. Feasibility of Mating Disruption in Highbush Blueberry. NW Vegetable and Berry Farmers Conference. Clackamas, OR, 30 January 2020.

Coslor, C, H. Spitler, B. Diehl, K. Scott, and B. Gerdeman. Mating Disruption of Obliquebanded Leafrollers (*Choristoneura Rosaceana*, Lepidoptera: Tortricidae) In Washington Blueberry. 79th Annual Pacific Northwest Insect Management Conference, Portland, OR, 7 January 2020.

Coslor C, Vandervoort C, Wise J C. 2018. Optimizing Trunk Injection to Match Seasonal Physiology of Apple Trees. Orchard Pest and Disease Management Conference, Portland, OR, 10 – 12 January 2018.  
Coslor C, Vandervoort C, Wise J C. 2016. Trunk injection technology for pesticide delivery in apples. XXV International Congress of Entomology, Orlando, FL, 25 – 30 September 2016.

Coslor C, Vandervoort C, Wise J C. Trunk injection of systemic pesticides for control of apple pests. Poster presented at: 63rd Annual Meeting of the Entomological Society of America, Minneapolis, MN; November 15-18, 2015.

Coslor C, VanWoerkom A H, Vandervoort C, Wise J C. 2014. Refining trunk injection strategies for control of foliar insects and disease in Michigan apple orchards. ESA 62nd Annual Meeting, Portland, OR, 16-19 November 2014.

Coslor C, Tanigoshi L K, Gerdeman B S, Spitler G H. 2013. Systemic control of *Drosophila suzukii* through neonicotinoid chemigation in highbush blueberry. Pacific Northwest Insect Management Conference, Portland, OR, 7-8 January 2013.

Coslor C, Tanigoshi L K, Gerdeman B S, Spitler G H. 2013. Adulticidal effects of neonicotinoids on *Drosophila suzukii* and ovicidal effects through translaminar uptake into blueberries. Pacific Northwest Insect Management Conference, Portland, OR, 7-8 January 2013.

Coslor C, Tanigoshi L K, Gerdeman B S, Spitler G H. 2012. Management of *Drosophila suzukii* through systemic activity on highbush blueberry. National ESA Meeting, Knoxville, TN, 11-14 November 2012.

Coslor C, Tanigoshi L K, Gerdeman B S, Spitler G H. 2012. Systemic activity of neonicotinoids on *Drosophila suzukii* in blueberry. National ESA Meeting, Knoxville, TN, 11-14 November 2012.

Coslor C, Gerdeman B S, Tanigoshi L K, Spitler G S. 2012. Curative Activity of Neonicotinoids on Spotted Wing *Drosophila* in Blueberry. Pacific Branch ESA Meeting, Portland, OR, 25-28 March 2012.

Coslor C, Tanigoshi L K, Gerdeman B S, Spitler G S. 2011. Curative activity of neonicotinoids on Spotted Wing *Drosophila* in blueberry. Washington Small Fruit Conference & Lynden Ag Show, Lynden, WA, 8-9 December 2011.

## Honors and Activities

Member of MSU Graduate and Undergraduate Entomology Student Society 2013-2017. President, 2015-2016. Secretary for year of 2014

1<sup>st</sup> place in Student Competition, Master's Poster: Coslor, Charles C., Beverly S. Gerdeman, Lynell K. Tanigoshi, G. Hollis Spitler. 2012. Curative Activity of Neonicotinoids on Spotted Wing Drosophila in Blueberry. Pacific Branch ESA Meeting, Portland, OR, 25-28 March 2012.

Member of WSU Entomology Club 2009-2013. Helped with yearly entomology club expo, volunteered at 2011 Paul C. Katts Memorial seminar and dinner, and performed public outreach.

Member of WSU Chemistry Club 2009-2011. Helped plan and carry out chemistry demonstrations and workshops for all ages, helped develop new demonstrations and activities, key developer of the first annual Kinetic Energy Competition, trained students to perform demonstrations, and trained new officers. Webmaster in 2010.

University Writing Portfolio – Pass with Distinction (2010)

President's Honor Roll – Fall 2007

Licensed Amateur Radio Operator – KE8DVQ