

## Curriculum Vitae (December, 2021)

Bernadine C. Strik

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### A. EDUCATION AND EMPLOYMENT INFORMATION:

Degree Major	Institution	Year
Ph.D.	Horticulture University of Guelph, Ontario, Canada (with distinction)	1987
B.S.	Botany University of Victoria, B.C. Canada (honors)	1983

  

Position	Institution	Dates
Professor Emeritus	Oregon State University	Jan. 1, 2022 - present
Professor	Oregon State University	July 1, 1997 - present
Associate Professor	Oregon State University	July 1, 1992 - June 30, 1997
Assistant Professor	Oregon State University	Sept. 9, 1987 - June 30, 1992
Sessional lecturer	University of Guelph	Sept 1, 1985 - Dec. 30, 1985

### B. TEACHING, ADVISING, AND OTHER ASSIGNMENTS

#### 1. Instructional Summary

##### a) *Credit courses*

Number/Title of Course	Credits	# Students
HORT 452/552 Culture/Physiology of Berries/Grapes 1989-2018 (on alternate years)	4	28 (avg.)
HORT 251; Temperate Tree Fruits and Berries (co-teach) 1996-2020 (on alternate years)	2	34 (avg.)
HORT 456/556 Berry Crop Production and Physiology (Ecampus) 2018 through 2021	4	10 (avg.)
HORT 520; Discussions in Plant Science – Berry Crop Physiology (co- with Bryla). 2012	2	10
HORT 509; Teaching Practicum. 2012	4	2
HORT 405; Reading and Conference (berries & grapes). 2001	3	6
HORT 501; Research (1994; 2011)	3	1
HORT 507; Horticulture Seminar (1990-91)	--	6
HORT 112; eHORT 112; Guest lecture, 1998-2021	2	38 (avg.)
HORT 511; Guest lecture, 2003-2021	2	11
HORT 401; Special projects, 2011	5	1
Berry crops; Chemeketa Comm. College, 2015, guest lecture	--	45
Viticulture; Chemeketa Comm. College, 1999, guest lecture	--	50
Pomology I (University of Guelph), 1986	3	15

b) *Non-credit courses*

I have organized or been the lead teacher on 48 workshops and 59 field days.

Organized "Strawberry Field Day", "Blueberry Field Day" and "Caneberry Field Day" at NWREC from 1992-2019 (60-130 growers each); and all but Strawberry in 2021  
All three field days were cancelled in 2020 due to COVID-19

Pruning berries – demo and hands-on. Inspiration Garden, Independence, OR. Feb. 22, 2020 (55)  
**invited**

Blueberry pruning from establishment through maturity. A full-day workshop. Only instructor.  
Abbotsford, B.C. Canada Dec. 6, 2019 (95) **invited**

Western Washington blueberry pruning workshop (organized by Dr. L. DeVetter, WSU). Only speaker, Prosser, WA. Nov. 18, 2019 (45) **invited**

Berry production workshop (co-organized with C. Sullivan, OSU), Redmond, March 28, 2019  
(gave 5 presentations on growing and managing berry crops in tunnels for Central Ore.) (25)

Western Washington blueberry pruning workshop (organized by Dr. L. DeVetter, WSU). Only speaker, Lynden, WA. Feb. 8, 2019 (45) **invited**

Table grape field day (co-organized and speaker), NWREC, Sept. 13, 2017 (25)

Blueberry pruning, in-field workshop (2 separate events) – Hood River (growers from many counties in OR and from WA) Feb. 12 2016; Salem (home gardeners from several counties; 35) Feb. 23 2016

Blueberry pruning, in-field workshop (2 separate events) – Marion/Linn Counties, Nov. 30, 2015 (35 growers); Douglas County, Dec. 21, 2015 (15 growers)

OSU Blueberry School, March 16-17, 2015. A two day training event for new & experience growers, managers, consultants. 300+ registrants from OR, WA, and B.C., Canada. Simultaneous interpretation to Spanish. (lead organizer and gave 6 presentations {see below})

Blueberry pruning – best methods for the home garden, Salem, OR, Feb. 19, 2015 – only instructor (50)

Blueberry pruning and nutrition workshop (only instructor; organized by Cassie Bouska) Coos & Curry Counties, OR, Feb. 6, 2015 (15)

Blueberry pruning workshops in Lynden and Prosser, WA, Dec. 17-18, 2014 (120 growers) – invited and only instructor

Blueberry pruning workshop in Hood River, Feb. 21, 2014. Organized by Steve Castagnoli (40 growers)

Organized Organic berry crop production workshop at the Organicology conference, Feb. 8, 2013 (75 growers)

Co-organized grower berry crop tour at the North American Berry Conference, Portland, OR, Jan. 25, 2013 (80)

Organized "Late-season Caneberry Field Day" August, 2012 at the NWREC (20 growers)

Co-organized grower tour as part of the NASGA/NARBA meeting, Jan. 28, 2013 (160 growers)

Organized workshop on organic berry crop production at Organicology, Feb. 8, 2013, Portland

Blueberry pruning workshop in Hood River, Feb. 4, 2011. Organized by Steve Castagnoli (55 growers)

Blueberry pruning workshop in Hood River, March 6, 2009. Organized by Steve Castagnoli (40 growers)

Blueberry pruning workshop in Hood River, Feb. 29, 2008. Organized by Steve Castagnoli (35 growers)

Blueberry grower tour in Hood River area, Sept. 19, 2007. Organized by Steve Castagnoli (8 growers)

“Blueberry Growers’ Course”, March 19-20, 2007. Organizer and presenter. There were 236 attendees, 100 more than a similar course we organized 3 years ago (OR: 146; WA: 43; CA: 30 ; UT: 1; Canada: 15; Chile: 1). Evaluations: of the 140 evaluations returned, 55% were new growers, 30% were experienced growers, 10% were consultants, and 6% academics. Overall quality of the course was rated 5.1 on a scale of 1 (poor) to 6 (excellent). The respondents indicated that they gained 31% (new growers), 13% (experienced), and 20% (consultants), and 37% (academics) new knowledge as a result of our course.

Kiwifruit pruning workshop, January 8, 2005. At the NWREC and a grower site (15 growers) “Blueberry Production Course – for new and experienced growers and other industry members”, march 2, 2004. Co-organizer with Wei Yang. Gave 3 presentations. Course ran from 8:30 am to 5:30 pm and was attended by 152 growers (112 from OR, 28 from WA, 7 from CA, and 5 from B.C. Canada). Evaluations: of the 130 evaluations returned, 45% were new growers, 29% were experienced growers, and 12% were consultants. Overall quality of the course was rated 4.5 on a scale of 1 (poor) to 5 (excellent). The respondents indicated that they gained 31% (new growers), 18% (experienced), and 17% (consultants) new knowledge as a result of our course.

“Pruning highbush blueberries”, 8 hour workshop with 2 one-hour presentations followed by field pruning demonstrations, Dec. 8, 2004 Abbotsford, B.C. Canada, (**invited**; 120 growers, 2 peers)

“Evaluating Scholarship in Extension Programs”, co-organizer, presenter, Extension Annual Conference, Sept., 2001, 5 hours (22 faculty)

"Hardy Kiwifruit for Commercial Growers" (65 growers), 1998, NWREC

Organized 21 workshops prior to my promotion in 1997.

c) *Presentations to clientele*

In the last 23 years, my presentations to clientele include: 342 in Oregon, 71 to national audiences, and 86 to international audiences. Of these, 154 were invited with 16 as a keynote presenter. A table is provided for brevity, followed by recent examples.

Year	Oregon	National	International	Attendees	No. talks	No. invited
2021	16	2 (PA)*; 2 (OR)*; 1 (NE)*	2 (Poland)*; 4 (Canada)*; 2 (Morocco)*	3057	29	16 (3 keynote)
2020	10	4 (MO)*; 1 (WA)*; 1 (MI)*	10 (Italy)*	1490	26	16 (2 keynote)
2019	21	5 (WA)*; 2 (VA)*	4 (Canada)*; Italy*	1460	31	19
2018	17	1 (NV)*; 5 (CA)*	5 (Morocco)* 2 (Canada)*; 2 (Portugal)*	1836	28	7
2017	13	0	3 (Chile)*; 1 (Oregon)*	2045	21	8
2016	18	2 (GA)*; 3 (VA)	0	1800	23	5
2015	19	3 (NH)*	2 (Canada)* 2(Australia)*	4810	40	7
2014	28	2 (UT)*; 2 (WA)*	3 (Canada)*	2922	35	7
2013	31	3 (WA)	2 (Mexico)*	3230	36	4
2012	10	1	3 (Canada)*	1995	14	5 (1 as keynote)
2011	15	5 (CA*); 2x WA*; 2x MO*)	1 (Serbia)*	1350	21	6 (1 as keynote)
2010	15	1 (CA*); 2 (FL*)	2 (Canada)* 2 (Canada)*; 2 (Argentina)*; 3 (Australia)*	1425	20	5
2009	10	3 (WA)	1 (Canada)*; 2 (Chile)*	1665	20	7 (2 as keynote)
2008	16	0	3 (Chile)*	1320	19	3 (1 as keynote)
2007	10	3 (WA)*; 4 (FL)	3 (Canada)*	1335	20	6 (1 as keynote)
2006	6	1 (CA)*; 1 (WA)*	2 (Argentina)*	925	11	5
2005	9	1 (CA)	5 (Canada)*	810	12	2 (1 as keynote)
2004	8	2 (MI)*	2 (Mexico)*; 1 (Canada)*	1270	15	5 (1 as keynote)
2003	13	1 (WA)*	1 (Canada)*	1225	17	4 (1 as keynote)
2002	10	2 (WA)*	0	975	13	3
2001	18	1 (CA)*; 2 (NJ)*	2 (Canada)*	1430	23	5 (1 as keynote)
2000	8	2 (WA)*	2 (Canada)*	595	10	2
1999	11	0	4 (Canada)*; 1 (New Zealand)*	760	13	2
1998	10	0		1025	15	5 (1 as keynote)
TOTAL	342	71	86	40755	512	154 (16)

*Selected recent examples:*

- Strik, B. and A. Davis. 2021. Organic production systems in northern highbush blueberry – After 14 years of research what are the best choices for growers? eOrganic, Dec. 1 (**invited**)
- Strik, B. and A. Davis. 2021. Mulching with sawdust AND weed mat on top – benefits in young and mature plantings! Blueberry Field Day, July 15, 2021
- Strik, B. and A. Davis. 2021. Mitigating nutrient imbalances in blueberry after long-term application of excess potassium. Blueberry Field Day, July 15, 2021
- Davis, A. and B. Strik. 2021. Introduction to new study: Do humic acids improve yield in mature organic plantings? Blueberry Field Day, July 15, 2021
- Strik, B. and A. Davis. 2021. Low input pruning in ‘Mini Blues’ shows tremendous promise after 6 years, but don’t hedge! Blueberry Field Day, July 15, 2021
- Davis, A. and B. Strik. 2021. Update on trellising and pruning options for ‘Legacy’. Blueberry

Field Day, July 15, 2021

Davis, A. and B. Strik. 2021. Impacts of planting density, primocane suppression, and pruning/training method on yield and machine-harvest efficiency of ‘Columbia Star’. Caneberry field day, July 7, 2021

Strik, 2021. Tips for growing blueberries at home. Corvallis (virtual), May 5, 2021. (30; **invited**)

Strik, 2021. How to prune primocane-fruited blackberry to increase yield and change time of fruiting season. International Berry Conference. Morocco (virtual), April 8, 2021. (136; **invited**)

Strik, 2021. Blueberry physiology – key things to know to maximize plant growth and yield of southern and northern highbush in soil- and substrate-systems. International Berry Conference. Morocco (virtual), April 7, 2021. (360; **invited**)

Strik, 2021. Producing blueberries and raspberries in your home garden – methods for success in raised beds or pots, Washington County Master Gardeners, Oregon (virtual), April 6, 2021. (120; **invited**); Central Oregon Master Gardeners, virtual April 3, 2021. (65; **invited**); Benton County Master Gardeners, Corvallis (virtual), March 15, 2021. (49; **invited**)

Strik, 2021. Raspberry nutrient management. Ontario Berry Growers, Toronto, Canada (virtual), March 23, 2021. (31; **invited**)

Strik, 2021. Raspberry physiology. Ontario Berry Growers, Toronto, Canada (virtual), March 23, 2021. (31; **invited**)

Strik, 2021. The physiology of flower bud formation – ways to maximize potential yield. International Blueberry Conference. Poland (virtual), March 4, 2021. (350; **invited keynote**)

Strik, 2021. Fertilizer management for best yield and quality in various production systems of northern and southern highbush blueberry. International Blueberry Conference. Poland (virtual), March 4, 2021. (350; **invited Capstone keynote**)

Strik, 2021. Good fertilizer nutrient management in blueberry – Tips for proper tissue sampling and fertilizer do’s and don’ts. Mid-Atlantic Fruit & Vegetable Conference. Pennsylvania (virtual), Feb. 11. (95; **invited**)

Strik, 2021. Organic materials for soil amendments and mulching – the good, the bad, and the ugly. Mid-Atlantic Fruit & Vegetable Conference. Pennsylvania (virtual), Feb. 11. (95; **invited**)

Strik, 2021. Fertility management – Based on plant requirements, and to maximize returns and minimize costs. Lower Mainland Horticultural Improvement Association. Abbotsford, Canada (virtual), Jan. 30, 2021. (150; **invited**)

Strik, 2021. Pruning tips considering variety, timing, and markets. Lower Mainland Horticultural Improvement Association. Abbotsford, Canada (virtual), Jan. 30, 2021. (160; **invited**)

Strik, B. and A. Davis. 2020. What difference does mulch make? Great Lakes EXPO. Michigan (virtual), Dec. 9, 2020. (175; **invited**)

Strik, B. and A. Davis. 2020. Adding a layer of sawdust under weed mat improves blueberry plant establishment, early yield, & nutrient uptake. Washington Small Fruits Conference, Lynden, WA (virtual), Dec. 1, 2020. (90; **invited**)

Strik, 2020. Blueberry pruning principles, practices for pruning young to mature plants and demonstrations. 5 presentations; 1 day of training to growers. January 14, Trento, Italy. (350; **invited keynote**)

Strik, 2020. Blueberry physiology and nutrition. 5 presentations to horticultural advisors from throughout Italy; 1 day of training. January 15, Trento, Italy. (30; **invited keynote**)

Strik, B., 2020. Best fertilizer practices for blackberries and raspberries. North American

- Raspberry and Blackberry Growers' Association Annual Conference. St. Louis, March 5. (150; **invited**)
- Strik, B., 2020. Pruning tips. Can newer cultivars be pruned the same way? Oregon Blueberry Conference, Salem, OR. Feb. 3. (325; **invited**)
- Jones P. and B. Strik, 2019 (tandem presentation). Caneberry fertilization practices – best practices for sustainable production and quality. Oregon Raspberry & Blackberry Annual Growers Meeting, Woodburn, OR. Dec. 10, 2019 (45)
- Strik, 2019. Cultural management decisions for sustainable yield and quality of blueberry, considering costs. Western Washington Small Fruits Conference, Lynden, WA Dec. 5, 2019 (50; **invited**)
- Strik, 2019. Blueberry production – tips for success and Pruning **and** training of table grapes for high-quality fruit (2 presentations). Winter Dreams and Summer Gardens Symposium. Medford, OR, Nov. 2, 2019 (70 total; **invited**)
- Strik, 2019. Basics of blueberry production. Primocane blackberry cane management (2 presentations). Virginia Berry Production & Marketing Conference. March 21, 2019. St. Petersburg, VA. (90; **invited**)
- Strik, 2019. Raspberry morphology, growth, and development. Raspberry pruning and training. Strawberry morphology. Strawberry establishment and management. Nutrient management of raspberry and strawberry (5 presentations) (25; **invited**)
- Strik, 2019. Rationale and fundamentals of blueberry pruning. Western WA Blueberry Pruning Workshop (only instructor), Feb. 8, 2019 (30; **invited**)
- Strik, 2019. Yield and quality of blueberry – impact of weather from Dec. – Jan. Lower Mainland Horticultural Improvement Association, Abbotsford, B.C., Canada, Jan. 26, 2019 (175; **invited**)
- Strik, 2018. Blueberry production in the hot, desert-like climates in Morocco (5 presentations; 1.5 days of training to growers from countries throughout Africa, Europe, and Asia. Dec. 11-13, Agadir, Morocco. (95; **invited keynote**)
- Strik, 2018. “Berry production options for diversified farmers”, Feb. 2-3, Reno, NV, Small Farm Conference. (90; **invited**)
- Strik, 2018. “Tissue testing to optimize fertilizer programs”, Feb. 23, Ventura, CA, North American Raspberry and Blackberry Association Annual Meeting, (85; **invited**).
- Finn, C., M. Peterson, B. Strik, and P. Jones, 2018. “USDA-ARS/OSU Cooperative Breeding Program – ORUS Black Raspberry, Red Raspberry, Blackberry for fresh, and Blackberry for process or fresh Selections for Grower Trial (4 posters), Feb. 23, Ventura, CA, North American Raspberry and Blackberry Association Annual Meeting, (155).
- Strik, 2018. “Nutrient management in conventional and organic production systems. 2018 Oregon Blueberry Conference, Salem, OR, Feb 19. (350)
- Strik, 2018. “Weed fabric and mulch for weed suppression”, Jan. 23, Salem, OR, Oregon Vineyard Supply Berry Day. (75)
- Dixon, E. and Strik. 2018. “A review of strawberry fertility management”, Strawberry Day, Feb. 15, Aurora, OR (65)
- Strik, 2018. “Berries in small spaces”, Corvallis, OR, Feb. 10, Insights into Gardening (125)
- Strik, 2017. “How to develop nutrient management programs for blueberry”; “Pruning young and mature blueberry plants for high yield and quality”; “SWD management in Oregon”, Nov. 28, Santiago, Chile. 3<sup>rd</sup> Berry Congress, Chile. (75-100; **invited keynote**)
- Strik, 2017. “Fertilization in blueberry – how to assess”; “Pruning young blueberry plants for

- rapid establishment”; “pruning mature blueberry plants for high yield and quality”, Nov. 3-4, Maguelda, Portugal. (300; **invited keynote**). This conference also included a 2-hour live on-screen pruning demonstration (video projection on screen for large audience).
- Strik, 2017. “Bountiful Berries: How to grow in containers and raised beds for limited space or poor soils” International Master Gardener Conference, July 10-14, 2017. Portland, OR Canada (220; **invited**)
- Strik, 2017. “Pruning tips for targeting specific markets and harvest methods” Lower Mainland Horticultural Improvement Association, Jan. 28, 2017. Abbotsford, B.C. Canada (195 growers; **invited**)
- Strik, 2017. “Optimizing your blueberry inputs -- nutrition” Lower Mainland Horticultural Improvement Association, Jan. 28, 2017. Abbotsford, B.C. Canada (210 growers; **invited**)
- Strik, 2016. “Nutrition of caneberries”; “Pruning blackberries” (2 talks). South Eastern Small Fruits and Vegetable Conference, Jan. 5-8, 2016. Savannah, Georgia (80-90 growers; **invited**)
- Strik, 2016. “Managing fertilizer programs in brambles”; “Pruning primocane-fruiting blackberries”; “bramble nutrition for beginning growers” (3 talks). N.A. Bramble Growers’ Assoc. March 3, 2016. Williamsburg, Virginia (40-75 growers; **invited**)
- Strik, 2016. “Growing berries in containers” Master Gardener Mini-College, McMinnville, Aug. 5 (70)
- Strik, 2015. “Weed control and fertility in organic blueberry production”; “Nutrient management in brambles”; “Primocane fruiting blackberries” (3 talks). New England Vegetable and Fruit Conference, Dec. 15-17, 2015. Manchester, New Hampshire. (80-95 growers; **invited**)
- Strik, 2015. “Blueberries in your home garden, a recipe for success”. Evening presentation, Dallas, OR, April 8 (60)
- Strik, 2015. “Growing berries for your home garden, tips for success”. Evening presentation, Grants Pass, OR, March 25 (80)
- Strik, 2015. “Characteristics of production regions in the PNW”; “Economics of production”; “Blueberry plant physiology”; “Blueberry pruning”; “Harvesting – hand vs. machine”; “Nutrient management” (6 presentations), OSU Blueberry School, March 16-17, Corvallis, OR (avg 270 for each talk)
- Strik, 2015. A TED-style talk on “Organic research in berries”, Small Farms Conference, Feb. 28, Corvallis, OR (30)
- Strik, 2015. “What effect do N fertilization rate and harvest time have on cranberry fruit quality?”, Oregon Cranberry School, Feb. 5. Bandon, OR (50)
- Strik, 2015. “Tissue testing to assess plant nutrient status in blueberry varieties. What have we learned?” & “From planting to maturity – which cultivars rise to the top from a production perspective?” (2 presentations) Lower Mainland Hort. Improv. Assoc., Jan. 31, Abbotsford, B.C., Canada (380 total) - **invited**
- Strik 2015. “Organic production systems – The good, the bad, and the ugly”. Oregon Blueberry Conference, Portland, OR. Jan. 27 (370)
- Strik 2015. “Opportunities and challenges learned from organic research in blueberry and blackberry”. North Willamette Hort. Soc., Jan. 13. Canby, OR (90)
- Strik 2014. “Understanding blueberry pruning”. Invited presentation and workshop for Washington growers. Conducted in Lynden (80) and in Prosser (40), Dec. 2014 - **invited**
- Strik 2014. “New varieties and tips for successful growing of berries”. Master Gardener Mini-College, Corvallis, OR. July 12 (75)

- Strik 2014. “Berry crops in Oregon – past, present, future”. ARF Board, Corvallis, OR. March 21 (30)
- Strik 2014. “Update on Nutrition in Caneberries – Recent research findings”. Oregon Caneberry Workshop, Woodburn, OR. Feb. 26 (85)
- Strik, 2014. “Organic bramble production”; “Blackberry production systems” (2 presentations). Utah Urban and Small Farms Conference, Salt Lake City, UT. Feb. 20 (75) - **invited**
- Strik, 2014. “Berry crops in the landscape” High Desert Industry Conference. Redmond, OR Feb. 12 (45)
- Strik, 2014. “What you need to know about blueberry nutrient management for yield, quality, sustainability”; “organic blueberry production systems”; “tips for organic production of berries” (3 presentations) Lower Mainland Hort. Improv. Assoc., Feb. 2, Abbotsford, B.C., Canada (450) - **invited**
- Strik 2014. “Blueberry plant nutrition”; “Cultivar differences in yield progression and fruit quality” (2 presentations). Oregon Blueberry Conference, Portland, OR. Jan. 27 (350)

#### Master Gardener Training:

I have personally trained 5,855 Master Gardener Volunteers in 124 classes on berry crops/grapes. In the 54 classes that were evaluated since 1997 (last promotion), my evaluations have averaged, 5.9/6. Written comments on the evaluation have included: “Best instructor so far!”; “Very organized”; “Too much information”; “So interesting, thank you!”; “Need more time for this topic”; “Great teacher!”; “Wow – wonderful!”

Prior to the COVID pandemic I trained in an average of 5 counties per year as well as giving 3 presentations for home garden events.

#### *d) Curriculum development*

- **PACE Pruning and Training of Berry Crops, Kiwifruit, and Grapes – a series of 5 modules.** B. Strik developed curriculum and does all of the teaching/narration. First available in Jan. 2020. For home garden and small farm clientele.
- **HORT456/556e.** Physiology and Production of Berry Crops. Development of curriculum 2017-2018. First taught in Winter 2018; taught twice year (Spring and Fall) 2019-2021.
- **PACE blueberry course.** Developed a new online course for commercial growers (6 week course). Curriculum development in 2016. First taught Winter 2017. Taught 3 times in 2017; once in 2018, twice in 2019 through 2021. Ended at my retirement 12/31/2021
- **Power Point modules for Master Gardener training.** Developed two new 3-hour long training modules for berries and grapes – one for western Oregon and one for eastern Oregon. January 2020. Files are being used by colleagues (E. Chernoh & N. Sanchez) to develop narrated lectures for on-line Master Gardener training (started in 2020) – in progress.
- **HORT 251.** Temperate Fruit Crops. Curriculum Development, 1996. Co-developed berry crops portion of course with Dr. Chad Finn. Major revision by Strik in 2018.
- **HORT 520.** Discussions in Plant Science – Berry Crop Physiology (co- with David Bryla). Developed instructional materials on how to write and review a research paper. Selected research papers to review and coordinated discussion.



- **Master Gardener Training Modules – Berry and Grape Crops.** 2001. Developed separate training modules for berry and grape crops: strawberries; raspberries; blackberries; blueberries; and grapes. Modules are original (see section C. Scholarship) and were reviewed by Extension faculty in 2001. In 2002, all of these modules were made available as PowerPoint presentations on CD and as hard copies with notes pages. Updated every two years. They were used by faculty peers for Master Gardener training in Oregon until new ones developed in 2020.

e) *Post-docs advised/directed*

Luis Valenzuela      2008-2017 (co-advisor), root physiology

f) *Graduate and undergraduate students advised/directed*

I have advised or presently advise 22 graduate students and have served on the committee of 26 students and as Graduate Representative for 9 graduate students. I have advised 7 undergraduate students (honor's thesis).

Advisor:

Javier Fernandez	Ph.D. (advisor), organic blueberry (current)
Patrick Kingston	M.S. (co-advisor), substrate production, blueberry, 2017
Khalid Almutairi	Ph.D. (co-advisor), blueberry water status, 2016
Emily Dixon	M.S. (advisor), organic blackberry systems, 2015
Javier Fernandez	M.S. (advisor), organic blackberry, 2014
Denise Nemeth	Ph.D. (co-adv., double mjr w/ EnvSci), C seq. blueberry, 2013
Renee Harkins	M.S. (advisor), organic blackberry systems, 2013
Ryan Costello	M.S. (co-adv., double mjr w/ CSS) 2011, composts in blueberry
Handell Larco	M.S. (advisor), 2010, organic blueberry systems
Ellen Thompson	M.S. (advisor), 2007, physiology of blackberry
Linda White	M.S. (advisor), 2006, <sup>15</sup> N and mulches in blueberry
Pilar Bañados	Ph. D. (advisor), 2006, <sup>15</sup> N in blueberry
Connie Landis Fisk	M.S. (co-advisor, double major w/ FST), 2006, kiwifruit ripening
Hannah Rempel	M.S. (co-advisor), 2003, <sup>15</sup> N in raspberry
Kevin Turner	M.S. (advisor), incomplete, kiwi pruning
Chantalak Tiyyon	M.S. (advisor), 2001, kiwi physiology
Maria Pescie	M.S. (advisor), 2001, kiwi thinning
Paula Mohadjer	M.S. (advisor), 1999, <sup>15</sup> N in blackberry

*Prior to last promotion*

Jessica Cortell	M.S. (advisor), 1996, blackberry physiology
Anne Connelly	M.S. (advisor), 1995, grape phylloxera
Neil Bell	M.S. (co-advisor), 1992, trailing blackberry
Lingxiao Zhang	M.S. (co-advisor), 1990, renovation in strawberry

Committee member:

David Leon Chang	Ph.D., Horticulture, current
Erik Augerson	M.S., Horticulture, withdrew
Bryan Sales	Ph.D., Horticulture, 2019
Fan-Hsuan, Yang	Ph.D., Horticulture, 2018
Deanna Lloyd	M.S., Crop & Soil Sci., 2016
Mingyang Liu	M.S., Food Science, 2015
Oscar Vargas	Ph.D. Horticulture, 2015
Sandy Wang	Ph.D., Food Science & Technology, 2015
Mathew Arrington	M.S., Horticulture, 2015
Sukalya Poothong	Ph.D., Horticulture, 2014
Amanda Vance	M.S., Horticulture, 2012
Amy Garrett	M.S., Horticulture, 2009
Michael Dossett	M.S., Horticulture, 2007
Rebecca Chitcowski	M.S., Entomology, withdrew
Rengong Meng	Ph.D., Horticulture, 2006
Michael McAuley	M.S., Horticulture, 2004
Erik Brasher	M.S., Horticulture, 2002
Ray Schaffer	M.S., Horticulture, 2002
Wesley Deuel	M.S., Horticulture, incomplete
Indi Sriprisan	M.S., Bioresource Engineering, 2001
Joey Ratliff-Peacock	M.S., Horticulture, 1999
Jon Umble	M.S., Entomology, 1999

*Prior to last promotion*

Angela Anderson	M.S., Horticulture, incomplete
Derek Peacock	M.S., Horticulture, 1995
Mauricio Lolos	M.S., Botany and Plant Pathology, 1991
Claudia Moggia	M.S., Horticulture, 1990

Graduate representative:

Samantha Hopf	Ph.D., Comm. Coll. Leadership Pgm
Duncan Kroese	M.S., Botany and Plant Pathology, 2016
Yu-Hui Lin	Ph.D., Education, 2007
Jim LaBonte	M.S., Entomology (grad rep.), 2002
Juanita Joy	Ph.D., Education (grad. rep.), 2000

*Prior to last promotion*

Rosalind James	Ph.D., Entomology (grad. rep.), 1995
Michael La Mana	M.S., Entomology (grad. rep.), 1994
Tae-Hwan Kim	Ph.D., Entomology (grad. rep.), 1994
Donna Lewis	M.S., Speech, Journalism, Business (grad. rep.), 1992

Undergraduate students advised (honors thesis):

Katherine Walgrave	blueberries, 2015
Adam Calamar	blueberries, 2005

Lindsey Moog                      blueberries, 2003  
Wesley Deuel                      blueberries, 1998

*Prior to last promotion*

Leslyn Rasmussen                kiwifruit, 1996  
Juliet Mann                        blackberries, 1995  
Catlin Kennedy                    blueberries, 1995

Undergraduate student committee member

Patrick Taylor                      Bioresource Research, 1999

Recent graduate student awards/scholarships:

Fernandez-Salvador: Graduate Student Travel Award (2017); Oregon Lottery (2016);  
Diversity Advancement Pipeline Fellowship (2014-15); Compton Scholarship  
(2015); Matthews Scholarship (2015); Bergman Scholarship (2014); Duruz  
Scholarship (2013); Bergmann Fellowship (2012); BSWCD Scholarship (2011)  
Kingston: Bergman Fellowship (2016)  
Dixon: Mathews Scholarship (2013); Compton Scholarship (2013)  
Nemeth: Bergmann Fellowship (2012)  
Harkins: Thompson Memorial Fellowship (2012); Compton Scholarship (2012)

Invited presentations by graduate students:

Fernandez-Salvador: 1 (Ecuador; 2016); 2 (Mexico; 2013); 2 Italy (2014); 1 Turkey  
(2014)

g) *International teaching*

Graduate student advising

2014, Ijak Aktar, Ph.D. (co-advisor), fresh market strawberry, NWFP Agricultural  
University Peshawar, NWFP, Pakistan

Internships

2008, Rafael Mariscal, Tecnológico de Monterrey Campus Querétaro, Mexico  
2000, David Bordese, National Agronomy Institute, Paris, France  
2000, Carolina Godard, National Agronomy Institute, Paris, France  
1999, Viviane Callarec, National Agronomy Institute, Paris, France  
1999, Sophie Somnard, National Agronomy Institute, Paris, France  
1998, Stephanie Bouziges, National Agronomy Institute, Paris, France, completed  
1997, Virginie Jacquemin, University of Montpellier, France, completed

*Prior to last promotion*

1996, Bruno Lanneree, University of Montpellier, France, completed  
1996, Yasmina Gabrillargues, University of Montpellier, France, completed

Other (all invited)

Blueberry pruning lectures and demonstrations. Northern Italy, January 2020

Blueberry pruning from establishment to maturity – presentations and in-field pruning demonstrations. Abbotsford, B.C., Canada. Dec. 6, 2019 (95 growers)  
 Blueberry shoot development and pruning – an infield training for growers in Northern Italy, July 1 2019 (35 growers)  
 Blueberry production in desert-like climates, Agadir, Morocco, Dec. 2018 (95 growers)  
 Blueberry pruning video training, Maguelda Portugal, Nov. 2017 (250 growers)  
 Blueberry pruning workshop, Chile, Aug. 2008 (45 advisors)  
 Invited speaker for grower workshops in Argentina (3 times) and Chile (4 times)  
 Invited seminar to `Boysen' berry growers, New Zealand, 1998  
 One-week course on berry crop production systems and Extension Agent training, Italy, only educator (invited), 1995 {10 field reps/agents}  
 One-week course on berry production for fresh market, Italy (invited), 1992

*h) Team and collaborative efforts in teaching*

- Work with Extension colleagues in Oregon and Washington to develop the agendas for the annual Strawberry, Blueberry, and Caneberry field days at the NWREC
- Work with colleagues throughout region to develop new and revised Extension publications
- Cooperator on Extension faculty projects 1997 – present, depending on faculty member (C. Bouska, W. Yang, R. Rosetta, E. Hellman, R. Penhallegon, A. Poole, Y. Zhao, L. White)
- Chair berry crops working group, 2011-present
- Co-developed and co-teach a Fruit Materials course (HORT 251) with C. Finn (through 2016), S. Mehlenbacher, and N. Wiman; alternate years, Fall Term
- Co-chair Berries/Grapes Working Group, OSU Extension Service (1997-2000)

2. Student and Participant/Client Evaluation

Course	Year	Evaluation <sup>z</sup>	# Students	Dept. Ave.	Univ. Ave.
HORT 456/556e	2021 F		11		
	2021S		9		
	2020 F	5.8	11	5.6	5.5
	2020 S	na	5	na	na
	2019 F	5.7	12	5.6	5.3
	2019 S	6.0	11	5.1	4.9
	2018	5.7	11	5.5	5.3
HORT 452/552	2018	5.95	6	5.6	5.3
	2016	5.7	20	5.2	5.2
	2014	5.75	17	5.2	4.9
	2012	5.7	21	5.1	5.1
	2010	5.75	11	4.8/5.0	5.3/5.3
	2008	5.5	4	5.1/5.3	4.9/5.1
	2006	4.7	9	5.1/5.3	4.9/5.2
	2004	5.5	6	4.75	4.9/5.2

Course	Year	Evaluation <sup>z</sup>	# Students	Dept. Ave.	Univ. Ave.
	2002	3.79	19	3.65	3.59
	1999	3.55	24	3.7	3.45
	1997	3.58	13	3.66	3.48
	1995	3.34	11	3.54	3.34
	1993	3.85	4	3.54	3.35
	1991	3.89	8	3.45	3.3
	1989	3.45	9	3.52	3.37
HORT 552	2010	5.8	7	4.9	5.3
	2008	5.8	5	--	5.0
	2006	5.8	4	5.2	5.1
	2004	4.7	7	4.75	3.8
	2002	3.85	8	3.69	3.6
	1999	3.55	3	3.7	3.45
	1997	3.88	5	3.66	3.48
	1995	3.54	6	3.54	3.34
	1993	3.78	7	3.54	3.35
	1991	3.65	8	3.45	3.3
	1989	3.45	7	3.52	3.37
HORT 520	2012	5.7	10	5.1	5.1
HORT 251	2020	5.3	21	5.6	5.3
	2018	5.7	8	5.6	5.3
	2016	4.35	22	5.2	5.2
	2014	5.4	22	5.25	5.0
	2012	5.1	35	4.7	5.1
	2010	NA	19	--	--
	2008	NA	20	--	--
	2006	NA	25	--	--
	2004	NA	18	--	--
	2002	3.53	10	3.85	3.53
	1998	3.46	24	3.62	3.46
	1996	3.22	13	--	3.48
HORT 405	2001	3.81	13	--	--

<sup>z</sup>Credit course evaluations are administered before the end of each course and are out of a maximum of 4.0 prior to 2004 then out of 6 (median is presented through 2006; then overall course rating/instructor rating as a whole). Starting in 2012, SETs were combined for HORT 452 and HORT 552

Non-credit teaching evaluations (recent only)

**OSU PACE (Professional and Continuing Education) Online Blueberry Physiology, Production Systems & Management** (6-week course for new and experienced growers, advisors, and peers); \$1055 registration cost. 19 hours of narrated lectures (B. Strik teaches 83% of the course). Offered Jan., March, and Sept, 2017; Jan 2018; Jan. and Sept. 2019, Jan. and Sept. 2020, and Jan. and Sept. 2021. In the 10 offerings (through Fall 2021) had a total enrollment of 355 students from 34 countries. Students range in age from 21 to 77. Evaluation summary: “Quality of content” = 4.8/5 (252 respondents) and percent perceived knowledge increase per category taught by Strik (cumulative results from 10 offerings; 252 respondents) is below:

Topic	Percent perceived increase in knowledge (%)			
	New growers	Experienced growers	Advisors/peers	All
Physiology and growth	109	51	44	65
Site selection/planting prep.	96	33	33	55
Nutrient management	100	41	32	59
Pruning	104	34	51	68
Physiological problems	86	35	27	48

**2018 Nevada Small Farms Conference, Feb. 3, Reno, NV.** A 1.5-hour presentation on berry options for diversified small farms in cold climates, limited by water. Evaluation done by conference organizers and sent to B. Strik (in file). 35 respondents. Increase in knowledge 46%; 54% will use information on their farm, immediately (40%) or 6 months from now (17%); 86% rated the instructor as “excellent”

**International Diploma for Berry Cultivation, Oct. 21, 2017. Intagri, Mexico.** A 3-hour long course on nutrient management in berry crops. The lecture was simultaneous translated to Spanish for student who watched “live” in Mexico. Students provided an evaluation to the organizer of the course. These were shared with me by email as follows: “excellent grade of 9.4/10”; additional comments: “very good presentation; many very good data; very dynamic; thank you!; a lot of experience from Dr. Bernadine”.

**OSU Blueberry School, March 16-17, 2015.** A two day training event for new & experience growers, managers, consultants. 300+ registrants from OR, WA, and B.C., Canada. Simultaneous interpretation to Spanish. Via clicker surveys: 86% strongly agreed and 10% agreed that having the thumb drive (with presentations) and the proceedings book at the meeting was very valuable; 50% strongly agreed and 22% agreed that Spanish interpretations was very valuable. The value of the meeting relative to the cost (cost:benefit) was rated as excellent (44%), very good (39%), and average (13%). The usefulness of the knowledge learned was rated as: highly useful (54%) to useful (46%). (lead organizer and gave 6 presentations {see above})

### 3. Peer Teaching Evaluations

In my personnel file

4. Advising  
na

I supervised two Faculty Research Assistants (Amanda Davis and Pat Jones) prior to my retirement; Amanda Davis (formerly Vance) was awarded the OSU Outstanding FRA Award (2018). I also supervised an Instructor (Emily Dixon), who worked predominantly on my on-line courses.

5. Other Assignments

Oregon has a diverse, economically important berry crop industry with about 30,000 acres harvested for a farm gate value of over \$250 million. Berry crops are grown on over 1000 family farms in Oregon. Blueberry and blackberry acreage continues to grow with new growers requiring basic information on all aspects of production, while acreage in other berry crops has been relatively stable the last five years. Existing growers struggle to remain economically viable in this global market. I have been actively involved and provide leadership for extension and applied research programs to deal with these issues. Our research and extension programs seek to help growers make educated decisions and improve economic viability and sustainability. Major programs conducted more recently are highlighted with outcomes and impacts.

i) Sustainable production systems in blueberry

*Situation.* New and existing growers require information on production systems that increase yield and quality and promote economic sustainability in this long-lived crop. Information was needed on optimal planting systems, pruning, fertilization, use of organic amendments, machine and hand harvest efficiency, cultivar adaptation, and fruit quality. Organic production systems are covered separately.

*Approach.* Research was conducted on: pruning and cropping of young blueberry plants; pruning severity and impacts on costs, yield, and quality of mature plants; planting density and impacts on long-term production; trellising for machine harvest efficiency; long-term impacts of soil amendments and mulching on plant and soil health and N fertilization rate on yield and quality; carbon sequestration in a mature blueberry field; impact of seed number on berry weight among cultivars; relationship between fruit developmental rate and growing degree days; impact of harvest frequency on fruit quality and yield; yield progression and fruit quality of new blueberry cultivars; irrigation and fertigation practices; and collaborative work on protecting fruit against sunburn.

*Outcomes and impact.* Prior, ALL fields were planted at 4 ft in the row. After high-density research (completed in 2004), ALL were established at 2.5-3 ft, increasing yield; estimated impact \$3 million/year. Also, no blueberries were trellised prior to us showing an increase in machine-harvest efficiency of up to 8% (+1 ton/a). Now 90% are trellised; estimated impact of \$5 million/year. Also growers can more easily manage spotted wing drosophila through pesticide applications with less ground drop of fruit. Research showed that plants can produce a small yield in year 2 (1-1.5 tons/a), with no adverse effect; estimated impact \$750,000/year. Conventional growers have reduced herbicide use by using weed mat in the row instead of sawdust, saving more than 50% of costs. Studies on impacts of weed mat color with or without

sawdust on soil temperature, plant growth, yield, and rodent activity were recently finished. I have conducted 11 workshops on pruning in Oregon and 12 outside (WA; CA; Canada; Chile; Italy; Portugal; Morocco). I worked with a Ph.D. student on developing heat thresholds for sunburn in blueberry and how to mitigate damage with over-head irrigation during berry development, saving growers millions of dollars during heat events in the last two years. Other outcomes have been highlighted in field days and blueberry courses, including the highly successful PACE online Blueberry Course for commercial growers.

*Scholarship.* Two Ph.D. students graduated in this topic area. I have authored/co-authored 34 refereed papers, 2 OSU Extension publications, 7 peer-reviewed papers in Acta Horticulturae, and 4 book chapters on this topic. Research grant support is provided in Section C 5. I have been invited as a keynote speaker at 3 ISHS peer conferences on this topic and at 15, 12, and 11 grower conferences regionally, nationally, and internationally, respectively.

ii) Organic production systems

*Situation.* The blueberry and blackberry industries approached me about their interest in organic production systems. Their major questions included whether these crops could be produced in a sustainable, economical production system and what the major production issues would be. Leaders in the blackberry industry indicated there was a niche for organic blackberry puree and juice and asked whether existing machine-harvested production systems would be sustainable with organic management.

*Approach.* I solicited “seed money” from the Oregon Blueberry Commission to establish a one-acre organic blueberry planting at the NWREC in 2006. Subsequent funding was obtained from federal agencies (e.g. NIFA-OREI, NCSFR, and the WA Blueberry Commission; see grants, Section C 5). We compared planting method, weed management treatments, and fertilizer source and rate in two cultivars in a certified organic planting from establishment to maturity (2006-2016), then evaluated their impact on long-term nutrient management, and just finished a follow-up study on how to mitigate nutrient problems caused by long-term fertilization with improper sources of fertilizer (2017-2020).

In blackberry, we received funding from the NIFA-OREI, NCSFR, and Oregon Organic Cropping Research (see grants, Section C 5) to study the impact of various organic production systems on processed and fresh blackberries. Our approach was to evaluate production systems for processing (Oregon) and fresh market blackberries (OR and North Carolina/NCSU).

*Outcomes and impact.* In blueberries. Cumulative yield from years 2–10 was 22% greater on raised beds than flat ground, corresponding to improved plant growth. All new plantings are now established on raised beds. The standard production system at the beginning of our study was sawdust mulch, sometimes used with compost, and the high rate of fish fertilizer. Using black weed mat mulch in the row increased yield by as much as 11% and reduced weed management costs by 75% compared to sawdust, including product and installation costs. When we started the study in 2006 an estimated 10% of all new plantings were installed with weed mat; now more than 90% are. Conventional growers also adopted this much and are documenting two fewer herbicide sprays with weed mat saving more than \$100/acre. In 2006, organic growers were most



commonly using fish solubles at a high rate for N fertilization. Our study showed significantly higher yield when fertilizing with half the typical grower rate of fertilizer. Growers quickly adopted this, saving \$900/acre. We also showed feather meal was a good alternative improving plant calcium uptake. Substituting feather meal for some or all of the fish solubles fertilizer saves growers up to an additional 50% of fertilizer costs. Over our long-term study, we developed organic production systems that had a similar yield and net cost to conventional systems. A cost of production study was published in 2011 to assist growers in decision making. When we started our study in 2006, organic blueberry acreage accounted for an estimated 2% of the 4,400 acres in Oregon. In 2019, organic acreage increased to 20% of the 15,000 acres. Similar results have been documented in eastern Washington. Our region produced 60% of USA organic blueberry fruit in 2018. When growers use organic fertilizer sources, they often contain more than just nitrogen. We documented that cultivars differ in their sensitivity to the high potassium that is found in fertilizer sources such as fish; we documented as much as a 35% reduction in yield as a result. This negative response to high potassium is of concern to conventional growers who may apply K fertilizer even when soil levels are sufficient. We published confirmation of the negative correlation between yield and leaf %K. We just finished a study showing that stopping use of yard-debris compost (high K) and sources of fertilizer with K improved yield in organic systems by as much as 50% over 4 years. The information learned in this trial has been presented at meetings throughout the USA and at international meetings held in Canada (invited), The Netherlands, Australia (invited), Orlando, USA (international meeting), Portugal (invited), and Chile (invited). Our research outcomes are considered the defining work on ideal organic production systems for soil-grown blueberry worldwide.

In blackberries. Weed management strategies were found to affect primocane growth and florican yield in a certified organic trailing blackberry planting. Machine-harvested yield was similar to what would be expected in a commercial conventional field of similar age. ‘Black Diamond’ had 15% more yield than ‘Marion’. Weed control increased yield by 67% with hand-weeding and 100% with weed mat, on average. The initial cost of the weed mat was far less than the cost of hand-weeding during the first 3 years following planting, and after only one season of fruit production, the yield benefit of weed mat provided enough profit to warrant its use over no weeding or hand weeding. We developed two organic blackberry cost studies, one for fresh market and the other for processing, which are available to growers online.

*Scholarship.* Five M.S. and two Ph.D graduate students and a post-doc have or are working on organic production systems. To date, we have 21 refereed journal articles, 13 peer-reviewed papers (12 in Acta Horticulturae), 3 OSU Extension publications, and 3 webinars related to organic production systems. One of the refereed papers won an ASHS, national award as the best fruit and nut paper published in 2019. I have given an invited presentation to peers at an Organic Farming Systems Conference in Washington DC, and at international conferences in The Netherlands, Australia, Canada, Chile, and Portugal, and one of my Ph.D. graduate students has given presentations in Ecuador and India at peer conferences. I was also an invited speaker at a NIFA Project Directors’ Workshop (ASHS, Hawaii, 2011). Many presentations were given to clientele in this topic area, including many invited outside Oregon. We received two, four-year federal grants to study organic blackberry and blueberry production systems, one on organic SWD management, and three 3-year grants from the NCSFR (see section C 5). I am considered the world expert on organic production systems in berry crops.

iii) Nutrient uptake and management in berry crops

*Situation.* In the late 1990s and early 2000s, there were many questions on the best way to fertilize berry crops to maximize yield and quality. Extension publications were based on typical grower practice and/or research studies from other regions. Growers required specific information for their farms and crops.

*Approach.* I initiated studies using N<sup>15</sup> in raspberry, strawberry, blackberry, and blueberry with funding support from Commissions and the NCSFR (see Section C 5). The objectives of the studies were to determine the amount of N fertilizer taken up by plants and the impact of timing and rate of application on N fertilizer uptake and partitioning and yield. I also studied the impact of growing season (collection date) and cultivar on leaf tissue nutrient concentration in blueberry, blackberry, and kiwifruit to help growers improve nutrient management programs.

*Outcomes and impact.* In strawberry, we showed that fertilization in spring did not improve yield, but reduced quality. Only N fertilization after fruit harvest is now recommended and has become standard practice in the industry. In blackberry, we learned that fertilization in both the on and off-year of alternate year production systems is required. In blackberry and raspberry, fertilizer should be split to improve efficiency of uptake and should be delayed until just before primocane emergence. In blueberry, fertilizer is not taken up until bloom and thus recommendations were amended to delay fertilization. Granular fertilizer should be split to improve efficiency. Collaborative work was done on fertigation. Long-term research showed that the threshold for yield in mature blueberry occurs at a relatively low N rate in conventional and organic production; negative impacts of high N rate have been shared with the industries in the PNW with impact of reducing N rates in commercial farms. Organic fertilization methods in blueberry and blackberry were studied in separate organic production systems projects (see above). Fertigation with organic products has proved successful. Data collected through the fruiting season in blackberry and blueberry are being used to develop new nutrient standards and sampling recommendations. A new strawberry nutrient management guide for OR and WA was published by OSU Extension. We found that foliar applied calcium products do not improve fruit quality in berries (saving growers money). We learned, through a collaborative Ph.D.-student project, that blueberry fruit only take up calcium during the first stage of development when stomata are still functioning; this has implications for methods to improve fruit calcium content. Work continues on studying the partitioning of macro- and micro-nutrients within raspberry and blueberry to learn more about optimal fertilization efficiency. Work has been disseminated to industry via presentations in Oregon, nationally, and internationally. Extension publications have been developed with new fertilization recommendations.

*Scholarship.* One Ph.D. and 3 M.S. students have worked in this focus area. We have 24 refereed papers and 6 peer-reviewed articles published in Acta Horticulturae, and I've co-authored 5 OSU Extension publications and authored one book chapter in this area. One OSU Extension publication and 1 presentation and 1 updated summary have been translated into Russian for the Russian caneberry grower community in Oregon. I have been invited as a keynote speaker at 2 ISHS meetings and 1 ASHS meeting to review berry crop nutrition, have given 6 other presentations to peers at national or international meetings, and have been an invited speaker to

industry in 7 other production regions. In 2016, I was invited to train 35 southern US extension agents at the Southern Region Small Fruits Consortium on nutrition management and interpretation of soil and tissue results and how to give recommendations to growers. In 2017, I was invited to give a 3-hour lecture as part of a berry crop diploma online “live” course developed and managed in Mexico. In 2018, I trained Moroccan growers on nutrient management of southern highbush blueberry.

iv) Fresh market production systems

*Situation.* More of our industry is interested in diversifying by adding fresh market production in many berry crops for the higher-value returns. Research was needed on which systems might fit our industry best.

*Approach.* Research projects were conducted on growing strawberries in high tunnels for off-season production, pruning and training options for primocane-fruiting blackberry, hand harvest frequency and impacts on yield and quality in blueberry cultivars, and the impact of container substrate mix on plant growth and nutrient uptake in blueberry for soilless culture (a new production system worldwide).

*Outcomes and impact.* Our work on high tunnel production in strawberry showed little benefit to extend the fruiting season of day-neutral strawberry when compared to the added cost of production. Our findings in primocane-fruiting blackberry, where we learned that tipping increased yield and quality, have become the standard pruning/training method for this crop worldwide. Results on extending the season of this crop using high tunnels has been disseminated to growers and peers and is being adopted in Oregon and worldwide. We have shown that the composition of the media used for substrate production of blueberry has a large impact on growth and nutrient uptake; our findings are the first published on this new, innovative area being used by companies to grow blueberry in non-typical areas worldwide. We recently showed that a new biofilm has no impact on post-harvest fruit quality in blueberry. We have published work on fruit development in blackberry and estimation of harvest date.

*Scholarship.* Two M.S. students have worked on this focus area. We have published 11 refereed papers and 7 peer-reviewed papers (6 in *Acta Horticulturae*) to date. I have been invited as a keynote speaker at 2 ISHS meetings (Chile and Portugal) and one ASHS (Louisiana) on this topic and have given 2 other presentations to peers at national or international meetings. A graduate student presented on topic at an international meeting in 2016.

v) Production systems for high-quality processed blackberries

*Situation.* Processors were concerned about thorn contamination (non-senescent petioles) in ‘Marion’ blackberry machine harvested for processing. They required an independent, objective survey to determine the extent of the problem, followed by on-farm research to help minimize the issue. With Oregon leading the world in trailing blackberry production for processing, research must be done locally to help our growers remain competitive.

*Approach.* A survey of thorn contamination was conducted and confirmed this was an extensive

problem that increase risk of liability for processors. Work on high density plantings and primocane management in alternate and every-year production systems was disseminated.

*Outcomes and impact.* On-farm research was conducted with our findings indicating that the best treatment to minimize potential thorn contaminants (by 65%) was a winter cleanup of the field using a machine harvester equipped with brushes. Now more than 4,000 acres of thorny trailing blackberry are brushed in winter with an estimated annual impact of \$1 million. We published 1 refereed paper on high-density production systems in blackberry, 1 peer-reviewed paper in Acta Horticulturae on reducing thorn contamination, and I have given 4 presentations to peers at international or national meetings.

vi) USDA-ARS and OSU Cooperative Breeding Program

*Situation.* In my role as the OSU lead on the Cooperative Breeding Program, I was responsible for managing the evaluation trials of advanced selections prior to my retirement. I collaborated with USDA-ARS berry crop breeder(s), Chad Finn (now deceased), Michael Hardigan and Claire Luby, on releasing cultivars.

*Approach.* I managed the breeding trials at the NWREC and coordinated harvesting, along with my FRA Pat Jones, and assisted in the evaluation and release of cultivars. The program was highlighted at the berry crop field days at the NWREC and processed fruit (collaboration with the Dept. of Food Sci. & Tech., OSU) was shown at industry meetings in the fall/winter to solicit input.

*Outcomes and impact.* As a result of our cooperative trials we released 38 cultivars of blackberry, strawberry, raspberry, and blueberry since my hire. The estimated impact over the last 10 years was \$450 million for the PNW including fruit sales and plant nursery sales.

*Scholarship.* We published 31 refereed papers and have 6 peer-reviewed papers in Acta Horticulturae. We released the first patented cultivar, Onyx trailing blackberry, in 2011 and presently have many patents or patents pending (not included in my CV as the USDA-ARS breeder is the patent holder).

vii) Scholarship and enabling faculty success

*Situation.* When field-based extension faculty became members of departments on campus and a part of our tenure-track, promotion system, there were many concerns about how to define scholarship in extension. In addition, tenure-track faculty require a strong mentoring system and good guidance from departments to help enable success in the promotion and tenure (P&T) process.

*Approach.* I consistently mentored a high number of junior (~ 10-15) faculty in our department. In 2001 and 2006, I co-taught workshops on documenting scholarship in Extension programs at the Extension Annual Conference. In 2012, I co-organized and co-taught a workshop on formatting the CV at the Outreach & Engagement Conference. I have actively sought and have been invited to participate in committees and workshops related to P&T. See Service (D. 1).

*Scholarship.* I was invited to give a presentation at the 2011 ASHS meeting workshop (“How to Succeed Professionally”) on how senior faculty maintain a successful, exciting program. In 2011, I was invited, along with my College of Agricultural Sciences (CAS) Faculty P&T Committee co-chair Pat Kennedy, to give a presentation on promotion and tenure review issues at the CAS Administrators’ Workshop on Faculty Mentoring; the document we produced is available on the CAS web site. I co-organized a P&T Workshop for Extension Faculty at the O&E conference in 2012 and created a template for Curriculum Vita for Faculty in the College of Agricultural Sciences. This document is available on-line and is used as a template for CV development throughout the College of Agricultural Sciences. It was updated in 2018 and re- vetted by the College of Agricultural Sciences.

viii) Home horticulture & Small Farm program

*Situation.* With the increased interest and practice in home garden and small farm food production, there is a high demand for home garden and smaller scale farming berry crop training and publications.

*Approach and Outcomes.* I personally trained Master Gardeners in two to seven counties annually. I developed power point presentations, revised annually, that other trainers can use for home garden presentations. I authored the berry crops chapter in the OSU Sustainable Gardening Handbook (revised as needed) and have authored 20 OSU Extension publications for the home garden & Small Farm audience. I commonly give presentations at Small Farm Conferences throughout the state and to the public or serve as a radio “expert”. In 2020, I released a series of pruning and training modules through PACE – 5 classes that include narrated lectures with embedded videos (blackberry, raspberry, blueberry, kiwifruit, and table grapes). In 2020-21, major revisions of the home horticulture berry publications, including production in the Willamette Valley, Southern Oregon, Central and Eastern Oregon were published.

Team and Collaborative Efforts

- Worked with Emily Dixon, Amy Jo Detweiler, Erica Chernoh, and Nicole Sanchez to develop 5 Extension publications for growing berries in all areas of Oregon (but the coast which already exist), 2020.
- Worked with Dr. L. DeVetter (WSU) and colleagues throughout the PNW to revise PNW 598, Commercial Raspberry Production in the Pacific Northwest (2017-2020)
- Collaborated with Dr. L. DeVetter (WSU), J. Fernandez-Salvador (OSU), and Emily Dixon (OSU) to develop/publish a new OSU Extension publication on strawberry nutrient management (2019)
- Worked with Cassie Bouska and Emily Dixon to develop 6 Extension publications for growing berries on the Oregon coast (home and small farm) (2016-18).
- Lead researcher on collaborative national research and extension project on organic blackberry production systems: Bryla and Finn (USDA-ARS); Zhao and Daeschel (OSU); Perkins-Veazie, Safley, Fernandez, and Rejesus (NCSU); growers in Oregon and North Carolina (2010-2016)
- Collaborator on regional research/extension project on spotted wing drosophila (2010-present)

- Lead researcher on collaborative regional research and extension project on organic blueberry production systems: Julian, Sullivan (OSU); Bryla (USDA-ARS); growers in Oregon and Washington (2006-present)
- Cooperator with Roper (formerly Univ. Wisc), DeMoranville (Univ. Mass), Vorsa (Rutgers NJ), Davenport (formerly Ocean Spray Cranberries, NJ; now at WSU), Patten (WSU), Poole (now retired; OSU), and White (OSU, since left) in many cranberry research projects (1988-2014)
- Cooperator with F. Takeda, USDA/ARS, Kearneysville, WV on flower bud initiation in caneberrries (1996-1999)
- Cooperator with other OSU researchers/Extension personnel: L. White: cranberry physiology (2007-2012); T. Righetti: Nutrition (1998-2011); W. Yang: Blueberries (2002-present); J. Hart, soil fertility (2000-2013); Y. Zhao, Dept. Food Science and Technology (2003-present); R. Rosetta: Annual production, strawberries (1996-2000); E. Hellman: Blueberry pruning (1996-1999); J. Hart/A. Poole: Fertilization of cranberries (1994-2014);
- Cooperator with ARS (Corvallis) scientists: Chad Finn, breeding; Dave Bryla, production systems & irrigation (2002-present); Bob Martin, viruses; Carolyn Scagel, mycorrhizae;
- Cooperator with Oregon growers: Riverbend Farm, Stahbush Island Farms, Five Mile Farm, and Pan-American Berry Growers on funded research projects (2003-present)

7 other cooperative efforts prior to 1997 (last promotion)

## C. SCHOLARSHIP AND CREATIVE ACTIVITY

### *Peer-reviewed papers:*

I publish in leading horticultural journals including HortScience, HortTechnology (key journals of the American Society for Horticultural Science), and the European J. Horticultural Science. Papers published in *Acta Horticulturae* are listed here as “peer reviewed”; this journal is a proceedings of the symposia within the International Society for Horticultural Science – while it is rigorously peer reviewed it is not considered refereed.

Year	Peer-reviewed publications				
	Refereed	Acta Horticulturae	OSU Extension	Book chapters	Other
2021	7	4	2	0	5
2020	9	0	4	0	3
2019	9	0	1	0	2
2018	10	0	6	0	0
2017	8	2	0	7	2
2016	4	5	0	1	0
2015	10	1	1	0	13
2014	6	3	4	0	0
2013	6	0	1	0	6
2012	5	4	0	0	1
2011	6	0	3	0	3
2010	2	0	0	0	1
2009	3	3	1	0	3
2008	1	6	9	0	1
2007	8	0	1	1	3
2006	4	5	2	0	2
2005	7	0	2	2	3
2004	7	0	1	0	11
2003	3	2	0	1	1
2002	2	3	1	0	2
2001	3	0	1	0	1
2000	0	0	0	0	2
1999	2	1	1	0	0
1998	2	0	2	1	1
1997	3	2	1	0	3
<i>Prior to last promotion</i>	22	1	27	11	21
<b>TOTAL</b>	<b>149</b>	<b>42</b>	<b>71</b>	<b>24</b>	<b>90</b>

### 1. Refereed Papers

150 refereed papers (published or accepted/in press)

*Role: As lead author, I solicited funding for project, analyzed data, and wrote draft and edited paper. As a co-author to lead-author graduate students (indicated by a “\*”), I wrote or edited the paper and solicited funding for the project. “+” indicates a faculty research assistant or post-doc in my program; papers for which I was a co-author and a co-PI on grant for that project are indicated by a “z”.*

Davis, A.J. and B.C. Strik. 2021. Long-term effects of pre-plant incorporation with sawdust, sawdust mulch, and nitrogen fertilizer rate on ‘Elliott’ highbush blueberry. HortScience (in press).

Sales\*, B., D. Bryla, K. Trippe, C. Scagel, B.C. Strik, and D. Sullivan. 2021. Biochar as an alternative soil amendment for establishment of northern highbush blueberry. HortScience

(accepted)

- Lee, S.I., J. Choi, H. Hong, J.H. Nam, B. Strik, A. Davis, Y. Cho, S.D. Ha, and S.H. Park. 2021. Investigation of soil microbiome under the influence of different mulching treatments in northern highbush blueberry. *AMB Express* 11:134 <https://doi.org/10.1186/s13568-021-01294-6>
- <sup>2</sup>Davis<sup>+</sup>, A.J. and B.C. Strik. 2021. Transitioning long-term mulch treatments and fertilizer source to alternative products improved yield and plant potassium status in long-term organic production of highbush blueberry. *HortScience* 56:897-908.
- <sup>2</sup>Jones, P.A.<sup>+</sup>, A.J. Davis<sup>+</sup>, and B.C. Strik. 2021. Alignment between university nutrient guidelines and grower practices for blackberry and red and black raspberry in Oregon. *J. Amer. Pom. Soc.* 75:17-30.
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- Finn, C.E., B.C. Strik, B.M. Yorgey, M.E. Peterson, P.A. Jones<sup>+</sup>, Gil Buller<sup>+</sup>, J. Lee, N. Bassil, and R.R. Martin. 2020. ‘Galaxy’ thornless semi-erect blackberry. *HortScience* 55:967-971.
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- Strik, B.C. 1985. Flower bud initiation in strawberry cultivars. Fruit Var. J. 39:5-9. **Hedrick Award**
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2. Peer-reviewed Papers (non-refereed)

**OSU Extension Service Publications**

71 Extension publications; 1 in press

DeVetter, L., B.C. Strik, P. Moore, C. Finn, M. Dossett, R. Sagili, T. Miller, C. Benedict, D. Bryla, I. Zasada, B. Martin, J. Pscheidt, J. Weiland, T. Peever, L. Tanagoshi, B. Gerdeman, J. DeFrancesco, J. Lee, S. Korthuis, and Y. Zhao. XXXX. Commercial Raspberry Production in the Pacific Northwest. PNW 598 (in press)

Strik, B, E. Dixon, A.J. Detweiler, and N. Sanchez. 2021. Growing Kiwifruit in Your Home Garden: Willamette Valley – Southern Oregon – Central Oregon – Eastern Oregon. EC 9322. May 2021

Strik, B, and A. Davis. 2021. Growing Kiwifruit – A Guide to Growing Kiwiberries and Fuzzy Kiwifruit for Pacific Northwest Producers. PNW 507. March 2021, 32 pp.

Strik, B, E. Dixon, A.J. Detweiler, and N. Sanchez. 2020. Growing Blueberries in Your Home Garden: Willamette Valley – Southern Oregon – Central Oregon – Eastern Oregon. EC 1304. December 2020

Strik, B, E. Dixon, A.J. Detweiler, and N. Sanchez. 2020. Growing Blackberries in Your Home Garden: Willamette Valley – Southern Oregon – Central Oregon – Eastern Oregon. EC 1303. September 2020

Strik, B, E. Dixon, A.J. Detweiler, and N. Sanchez. 2020. Growing Raspberries in Your Home Garden: Willamette Valley – Southern Oregon – Central Oregon – Eastern Oregon. EC 1306. August 2020

Strik, B, E. Dixon, A.J. Detweiler, E. Chernoh, and N. Sanchez. 2020. Growing Strawberries in Your Home Garden: Willamette Valley – Southern Oregon – Central Oregon – Eastern Oregon. EC 1307. July 2020

Dixon, E., B. Strik, J. Fernandez-Salvador, and LW. DeVetter. 2019. Strawberry Nutrient Management Guide for Oregon and Washington. EM 9234, May 2019

Bouska, C., E. Dixon, and B.C. Strik. 2018. March 2018

- Growing Berries on the Oregon Coast -- An Overview (EM 9177)
- Growing Berries on the Oregon Coast – Strawberries (EM 9178)
- Growing Berries on the Oregon Coast – Blueberries (EM9179)
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- Growing Berries on the Oregon Coast – Kiwifruit and Grapes (EM 9181)
- Growing Berries on the Oregon Coast – Gooseberries, Currants, and Other Minor Berries (EM 9182)

Hart, J.M., B.C. Strik, C. DeMoranville, J.R. Davenport, and T. Roper. 2015. Cranberries. A nutrient management guide for south coastal Oregon. EM 8672

Strik, B.C, C.E. Finn, and P. Moore. 2014. Blueberry Cultivars for the Pacific Northwest. PNW 656



- Finn, C.E., B.C. Strik, and P. Moore. 2014. Raspberry Cultivars for the Pacific Northwest. PNW 655
- Finn, C.E. and B.C. Strik. 2014. Blackberry Cultivars for Oregon. EC 1617
- Finn, C.E., B.C. Strik, and P. Moore. 2014. Strawberry Cultivars for Western Oregon and Washington. EC 1618
- Hart, J., B. Strik, and H. Rempel. 2013. Ежевика и Малина [Nutrient management guide. Caneberries]. EM 8903-R, 11 pp. Russian translation (N. Adams)
- Julian, J., B. Strik, E. Pond., and W. Yang. 2011. Blueberry economics: The Costs of Establishing and Producing Organic Blueberries in the Willamette Valley, Oregon. AEB 0023, July
- Strik, B.C. 2011. Growing Table Grapes. EC 1639. May, 32 pp.
- Julian, J., B. Strik, and W. Yang. 2011. Blueberry economics: The Costs of Establishing and Producing Blueberries in the Willamette Valley, Oregon. AEB 0022, April, 25pp.
- Julian, J., C. Seavert, B. Strik, and D. Kaufman. 2009. Berry economics: Establishing and producing 'Marion' blackberries in the Willamette Valley, Oregon. EM 8773, 31pp.
- Detweiler, A.J. and B. Strik. Selecting berry crop varieties for Central Oregon. EC 1621-E, May 2008, 4pp.
- Strik, B.C. Growing Blackberries in Your Home Garden. EC 1303, (major revision) March, 2008, 8 pp.
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- Strik, B.C. Growing Strawberries in Your Home Garden. EC 1307, (major revision) March, 2008, 8 pp.
- Strik, B.C. and C.E. Finn. Blueberry Cultivars for Oregon. EC 1308, (major revision) March, 2008, 12 pp.
- Finn, C.E. and B.C. Strik. Raspberry Cultivars for Oregon. EC 1310, (major revision) March, 2008, 8 pp.
- Finn, C.E. and B.C. Strik. Blackberry Cultivars for Oregon. EC 1617, Mar., 2008, 12 pp.
- Finn, C.E. and B.C. Strik. Strawberry Cultivars for Oregon. EC 1618, March, 2008, 8 pp.
- Strik, B. and 8 co-authors in the Pacific Northwest. 2007. Commercial Red Raspberry Production Guide for the Pacific Northwest. Dan Barney and Carol Miles (regional editors), PNW 598, 104 pp.
- Hart, J., B. Strik, L. White, and W. Yang. 2006. Nutrient management for blueberries in Oregon. EM 8918, 14 pp.
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- Strik, B. 2005. Growing kiwifruit (revision). PNW 507. 23 pp.
- Eleveld, B., B. Strik, K. DeVries, and W. Yang. 2005. Blueberry economics. The costs of establishing and producing blueberries in the Willamette Valley. EM 8526. 41 pp.
- Strik, B. 2004. Growing kiwifruit (major revision). PNW 507. 23 pp.
- Strik, B. (lead author) and 10 co-authors in the Pacific Northwest. 2002. Commercial cranberry production (major revision). PNW 247.
- Eleveld, B., B. Strik, K. Brown, and B. Lisec. 2001. Marion blackberry economics. The costs of establishing and producing 'Marion' blackberries in the Willamette Valley. EM 8773. 29 pp.

- Strik, B. 1999. Berry crops. *In*: Sustainable Gardening: The Oregon-Washington Master Gardener Handbook. EM 8742. pp. 223-262.
- Strik, B. and H. Cahn. 1998. Growing kiwifruit (revision). PNW 507. 20 pp.
- Strik, B. 1998. Red raspberry cultivars for Oregon (revision). EC 1310. 4 pp.
- Poole, A., J. Hart, T. Righetti, and B. Strik. 1997. Nutrient Management Guide, Cranberries, South Coastal Oregon EM 8672, 5 pp.  
<http://extension.oregonstate.edu/catalog/pdf/em/em8672-e.pdf>

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- Strik, B. and H. Cahn. 1995. Growing kiwifruit. EC 1464. November 1995. 22 pp.
- Strik, B., M. Candolfi-Vasconcelos, G. Fisher, E. Hellman, B. Watson, S. Price, A. Connelly, and P. Stonerod. 1995. Phylloxera strategies for management in Oregon's vineyards. B. Strik (ed.). EC 1463. November 1995. 21 pp.
- Pscheidt, J., G. Fisher, and B. Strik. 1994. Blueberry pest management guide for the Willamette Valley. EM 8538, Feb. 1994.
- Turner, B., T. Cross, B. Strik, and D. Kaufman. 1993. Enterprise Budget, Red Raspberry, Willamette Valley. EM 8539, 4 pp.
- Turner, B., T. Cross, and B. Strik. 1993. Enterprise Budget, Winegrapes, Willamette Valley. EM 8537, 4 pp.
- Satouf, L., T. Cross, B. Strik, and B. Turner. 1993. Vineyard economics. The costs of establishing and producing winegrapes in the Willamette Valley. EM 8533, 29 pp.
- Cross, T., B. Turner, B. Strik, and D. Kaufman. 1993. Red raspberry economics. The costs of establishing and producing red raspberries in the Willamette Valley. EM 8534, 17 pp.
- Lisec, B., T. Cross, and B. Strik. 1993. Blueberry Economics. The costs of establishing and producing blueberries in the Willamette Valley. EM 8526, Jan. 1993, 28 pp.
- Strik, B. (ed.) and 15 co-authors in PNW. 1993. Highbush Blueberry Production, PNW 215. Strik, regional editor, OSU Extension Service, Jan. 1993, 80 pp.
- Pscheidt, J., G. Fisher, and B. Strik. 1993. Blueberry Pest Management Guide for the Willamette Valley. EM 8538, 6 pp.
- Hart, J., B. Strik, and A. Sheets. 1992. Caneberries, fertilizer guide. FG 51, 4 pp.
- Strik, B. and J. Hart. 1991. Blueberry fertilizer guide. FG 78, 4 pp.
- Cross, T., A. Sheets, and B. Strik. 1991. Enterprise Budget. Strawberry establishment, Willamette Valley Region. EM 8462, 4 pp.
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- Fisher, G., J. Pscheidt, B. Strik, R. William (alpha.), and D. Edge. 1991 Pest Control Guide for Wine Grapes in Oregon. EM 8413 (Feb., 20 pp); revision: 1992.
- Strik, B.C. and A. Bratsch. Growing Currants and Gooseberries in Your Home Garden. EC 1361, October, 1990, 6 pp.
- Strik, B.C. Growing Blackberries in Your Home Garden. EC 1303, June 1989, 5 pp.
- Strik, B.C. Growing Blueberries in Your Home Garden. EC 1304, June 1989, 4 pp.
- Strik, B.C. Growing Grapes in Your Home Garden. EC 1305, June 1989, 14 pp.
- Strik, B.C. Growing Raspberries in Your Home Garden. EC 1306, June 1989, 6 pp.
- Strik, B.C. Growing Strawberries in Your Home Garden. EC 1307, June 1989, 6 pp.
- Strik, B.C. Blueberry Cultivars for Oregon. EC 1308, June 1989, 4 pp.
- Strik, B.C. Grape Cultivars for Your Home Garden. EC 1309, June 1989, 4 pp.

- Strik, B.C. Raspberry Cultivars for Oregon. EC 1310, June 1989, 2 pp.
- Crabtree, G.D., C.J. Weiser, S.D. Miles, J.L. Green, N.S. Mansour, A.R. Mosley, R.L. Stebbins, and B.C. Strik. A Profile of Oregon's High-Value Specialty Crops. Ext. Misc. 8331, March 1989, 13 pp.; revision: 1991.
- Poole, A., J. Hart, K. Wilder, T. Righetti, and B. Strik. 1989. Fertilizer Guide, South Coastal Oregon Cranberries. FG 75, 2 pp.
- Fisher G., J. Pscheidt, B. Strik, and R. William (alpha.). 1990 Pest Control Guide for Wine Grapes in Oregon. EM 8413, February, 1990, 20 pp.

### **e-Organic or web-based publications**

*The following were peer-reviewed:*

- Rysin, O. and B. Strik. 2015. Producing, harvesting, and marketing 'Ouachita' organic fresh blackberries for fresh market in Oregon – costs and returns for a one-acre commercial operation. A grower-interactive budget published on line (in Oregon and in N.C.).  
<http://oregonstate.edu/dept/NWREC/programs/berry-crops>

*Original content for eOrganic undergoes two separate (and anonymous) reviews by experts within the field (researcher, educator, farmer, and/or other technical expert) and is reviewed by a copy editor and by Jim Riddle (U of MN) for NOP compliance. Some papers are rejected for publication.*

- Strik, B.C., D. Bryla, and D. Sullivan. 2010. Organic Blueberry Production Research Project. Available at: <http://www.extension.org/article/31680>
- Valenzuela, L., D. Bryla, D. Sullivan, and B.C. Strik. 2011. Organic Blueberry Production Research Project: Roots. Available at: <http://www.extension.org/article/32763>

### **OSU Extension Service Videos**

- Strik, B.C. and L. Ketchum (producers), B.C. Strik, R. Penhallegon, and D. Brazelton (writers). 1990. Pruning Highbush Blueberries--A grower's guide. (21:50), VTP 002. (over 4,000 sold, many international.) *Replaced by online pruning module (2.5 hours long) in January 2020* Translated to Spanish in 2002. Available in DVD format 10-2005.

### **e-Organic webinars**

- Strik, B.C. and A. Davis. 2021. Organic production systems in northern highbush blueberry--after 14 years of research what are the best choices for growers? eOrganic webinar. Dec. 1, 2021 (virtual, presented by Strik, Q&A co-presented, 162 people attended live). Online at: <https://eorganic.org/node/35124> (331 views as of Dec. 13, 2021)
- Strik, B.C, D. Bryla, and L. Valenzuela. 2014. Organic Blackberry Production: Tips learned from an ongoing research study. March 13, 2014. Webinar on-line at: <http://www.extension.org/pages/70279>. Attendees: 144 (from 34 US States and from Canada, Argentina, Australia, Great Britain, and Portugal). 81% of attendees indicated that they moderately to significantly improved their knowledge and would modify their practices

(77%). This webinar has had over 680 views to date.  
Strik. 2011. Organic Fruit Production Research. Organic Farming Systems Conference, March 15-17, 2011, Washington DC. Webinar on-line at:  
<http://www.extension.org/pages/33545/usda-organic-farming-systems-conference-webinars>  
Strik, B.C., D. Bryla, and H. Larco. 2010. Organic blueberry production. Avail. at  
(<http://www.extension.org/article/26115>). Attendees: 124 (from 39 US States and 2 Canadian Provinces). As of May 1, 2014, this webinar has had over 4,300 views (according to eOrganic, 870 views is typical)

### **Agricultural Experiment Station Publications**

Hess, M., B. Strik, J. Smesrud, and J. Selker. 1997. Western Oregon blueberry irrigation guide. OSU Dept. of Bioresource Engineering pub. 2 pp.  
Hess, M., B. Strik, J. Smesrud, and J. Selker. 1997. Western Oregon caneberry irrigation guide. OSU Dept. of Bioresource Engineering pub. 2 pp.  
Hess, M., B. Strik, J. Smesrud, and J. Selker. 1997. Western Oregon strawberry irrigation guide. OSU Dept. of Bioresource Engineering pub. 2 pp.  
Bell, N., E. Nelson, B. Strik, and L. Martin. 1992. Assessment of winter injury to berry crops in Oregon, 1991. Ag. Exp. Stn. Special Rep. 902, 23 pp.  
Strik, B., A. Connelly, P. Lombard. 1992. Assessment of winter injury of grapevines in Oregon, 1991. Ag. Exp. Stn. Special Rep. 901, 29 pp.

### **Other Extension-type Publications**

Lisa DeVetter, Eric Gerbrandt, Bernadine Strik, Andony Melathopoulos, Jay Pscheidt, Jerry Weiland, Inga Zasada, Virginia Stockwell, Dave Bryla, Michael Dossett, Chakradhar Mattupalli, Chris Benedict, Gabe LaHue, Deirdre Griffin LaHue, Meijun Zhu, Carolyn Teasdale, and Julie Pond. 2021. Berry Crops and Flooding. Available at:  
[https://agsci.oregonstate.edu/sites/agscid7/files/horticulture/berry/berry\\_crops\\_and\\_flooding\\_12-2021.pdf](https://agsci.oregonstate.edu/sites/agscid7/files/horticulture/berry/berry_crops_and_flooding_12-2021.pdf)  
Strik, B. and P. Kennedy. 2011. Guidance for content and formatting of promotion and tenure dossiers, College of Agricultural Sciences. Presented at CAS Administrators' workshop on Mentoring Faculty for Success. Available at: <http://agsci.oregonstate.edu/faculty-staff/promotion-tenure>  
Brinson, A., B. Strik, D. Williams, H. Schneider, and A. Grills. 2009. Recovery from fire damage in Rubus crops. Depart. Primary Industries, Agriculture Note, AG1378, 3 pp.  
Burns, E., B. Strik, N. Lunde, P. Howes, D. Williams, H. Schneider, and A. Grills. 2009. Recovery from fire damage in blueberry orchards. Depart. Primary Industries, Agriculture Note, AG1385, 2 pp.  
Braunworth, B. and B. Strik. 2001, 2006. So where are the scholarship opportunities in your plan of work? Presented at 2001 and 2006 professional development workshops. Available at: <http://agsci.oregonstate.edu/faculty-staff/promotion-tenure>

### **Ask an Expert**

Respond to questions sent to me via "Ask an Expert" and "Ask Extension". In 2013, one of my

responses (on blueberry pruning) received an average of 397 hits/week (the average is usually less than 100/week – per K. Zimmerman, EESC)

## Book Chapters

I have authored 24 book chapters or sections in books.

- Strik, B. 2017. Growth and development. In: Blackberries and their Hybrids. H. Hall and D. Funt (Eds.), CABI Press, Oxfordshire, UK, p:17-34
- Strik, B. 2017. Plant nutrient management. In: Blackberries and their Hybrids. H. Hall and D. Funt (Eds.), CABI Press, Oxfordshire, UK, p:146-168
- Strik, B and M. Stanton. 2017. Crop production. In: Blackberries and their Hybrids. H. Hall and D. Funt (Eds.), CABI Press, Oxfordshire, UK, p:245-265
- Strik, B., F. Takeda, and G. Gao. 2017. Pruning and training. In: Blackberries and their Hybrids. H. Hall and D. Funt (Eds.), CABI Press, Oxfordshire, UK, p:169-201
- In: Compendium of Raspberry and Blackberry Diseases and Pests, Second Edition. 2017. R.R. Martin, M.A. Ellis, B. Williamson, and R.N. Williams, eds. APS Press, St. Paul, MN.
- Pritts, M.P. and B.C. Strik. Introduction. Pp. 1-7.
  - Strik, B.C. Part III. Disorders caused by abiotic factors. pp. 128-130.
  - Strik, B.C. Solar injury. pp. 138.
- Strik, B. and J. Hancock. 2016. Introduction: The taxonomy, botany, and culture of *Vaccinium*. Pg. 1-8. In: Compendium of Blueberry, Cranberry, and Lingonberry Diseases and Pests, Second Edition. J.J. Polashock, F.L. Caruso, A.L. Averill, and A.C. Schilder (Eds.) APS Press, St. Paul, MN.
- Strik, B. 2007. Berry crops: Worldwide area and production systems. In: Berry Fruit: Value-Added Products for Health Promotion. Y. Zhao (Ed.), CRC Press- Taylor and Francis Group, Boca Raton, FL., 3-49.
- Strik, B. 2005. Blueberry production trends in North America – Past and future. In: The Blueberries – For Growers, Gardeners, and Promoters. N. F. Childers and P.M. Lyrene (Eds.), N.F. Childers Horticultural Publications, Gainesville, FL, 1-4.
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3. Other papers

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### **Newsletters and Newsletter Articles**

89 Newsletter articles since hire; last 10 years presented here

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- Strik, B.C. 2020. Berry research and breeding evaluations during a pandemic. *Down on the Farm*, Summer/Fall 2020, pg. 1-2
- Strik, B.C., P. Jones, and C.E. Finn. 2019. 'Mini Blues' – Researching ways to grow this great-tasting, small-fruited blueberry economically. *Oregon Blueberry Update*, Fall 2019.
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- Strik, B.C. 2017. Clear results in organic research. Oregon Blueberry Update, Fall 2017
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- Strik, B.C. 2016. Organic blackberry research yields significant findings Down on the Farm, Fall 2015/Winter 2016. Pg. 3
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- Strik, B., D. Bryla, D. Sullivan, and A. Vance. 2014. Producing blueberries organically. Oregon Blueberry Update, Spring, 2014.
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- Yorgey, B., C. Finn, M. Peterson, and B. Strik. 2012. Quality evaluation of advanced blackberry selections and standard cultivars. Berry Commission News, spring 2012. Pg. 10
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- Strik, B., Vollmer, E., Buller, G., Bryla, D. and Sullivan, D. 2011. Organic blueberry production research project. Oregon Blueberry Update, spring, 2011
- Strik, B. 2009. Weed and fertility management of a newly established organic blueberry field. eOrganic Updates!, May 2009:3.
- Strik, B. 2009. Sampling for cold damage in trailing blackberry fields. Caneberry Newsletter, March 2009: 1-3.
- Strik, B. 2009. Sampling for cold damage in trailing blackberry fields. Berry Commission News, Spring 2009: 10,13.
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### **Abstracts from Conferences without Published Proceedings**

- Strik, B.C., and A. Davis. 2020. Impact of planting density and pruning and training method on growth, yield and machine-harvest efficiency of ‘Columbia Star’ trailing blackberry. Northwest Center for Small Fruits Research, Dec. 15, 2020.
- Strik, B.C., C. Finn, and M. Hardigan. 2020. Breeding Improved Berry Crop Cultivars for the Pacific Northwest: The USDA-ARS/Oregon State University Small Fruit Breeding Program

- at the North Willamette Research and Extension Center. Northwest Center for Small Fruits Research, Dec. 15, 2020,
- Jones, P.A., A.J. Vance, and B.C. Strik. 2020. Using the relationship between fertilization practices, soil and plant nutrient status, and yield in caneberry grower fields to inform research and extension programs. North American Raspberry and Blackberry Growers' Association, St. Louis, MO, March 5.
- Vance, A.J., P.A. Jones, C.E. Finn, and B.C. Strik. 2020. Fruit development in blackberry types and cultivars – impact of days and temperature from anthesis to stages of ripening. North American Raspberry and Blackberry Growers' Association, St. Louis, MO, March 5.
- Strik, B.C., A.J. Vance, D.R. Bryla, and D.M. Sullivan. 2019. Organic production systems in northern highbush blueberry: II. Impact of planting method, cultivar, fertilizer, and mulch on leaf and soil nutrient concentrations and relationships yield from planting through maturity. Proc. Northwest Center for Small Fruits Research, Dec. 3, 2019, pp: 13-14.
- Strik, B.C., A.J. Davis, and D.R. Bryla. 2019. Development of alternate fertilization programs to mitigate nutrient problems found in long-term organic blueberry production systems. Proc. Northwest Center for Small Fruits Research, Dec. 3, 2019, pp: 27-28.
- Strik, B.C. and C.E. Finn. Breeding improved berry crop cultivars for the Pacific Northwest: The USDA-ARS/Oregon State University small fruit breeding program at the North Willamette Research and Extension Center. Proc. Northwest Center for Small Fruits Research, Dec. 3, 2019, pp: 28-29
- Strik, B.C., A.J. Davis, D.R. Bryla. 2019. Alternative management systems of 'Columbia Star' blackberry for improved machine-harvested yield and quality. Proc. Northwest Center for Small Fruits Research, Dec. 3, 2019, pp: 30-31.
- Almutairi\*, K., D.R. Bryla, B.C. Strik. 2015. Strategies for maintaining fruit quality in northern highbush blueberry under water limited conditions: Deficit irrigation and reduced crop loads. HortScience (Abstr.)
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- Valenzuela-Estrada\*, L.R., O.L. Vargas\*, D.R. Bryla, D.M. Sullivan, and B.C. Strik. 2010. Blueberry root dynamics and nutrient management under organic and conventional production. HortScience (abstr.), in press
- Larco, H. \*, B.C. Strik, D. Bryla, and D. Sullivan. 2009. Establishing Organic Highbush Blueberry Production Systems – The Effect of Raised Beds, Weed Management, Fertility, and Cultivar. HortScience (abstr.), 44:1120-21.
- Strik, B.C. 2009 Impact of tunnels on growth, physiology, and fruit quality of berry crops. HortScience (abstr.), 44:979.
- D.R. Bryla, D. Kaufman, and B.C. Strik. 2008. Effects of irrigation method and level of water application on fruit size and yield in red raspberry (*Rubus idaeus* L.) during the first year of full production. HortScience 43:1112 (abstr.).
- E. Thompson\* and B.C. Strik. 2007. Season extension of primocane-fruiting blackberry in a mild climate using high tunnels. HortScience 42 (4, July):1021, (abstr.).
- D.R. Bryla, D. Kaufman, and B.C. Strik. 2007. Effects of irrigation method and level of water application on fruit size and yield during the first year of production in red raspberry. HortScience 42 (4, July):1022, (abstr.).
- H. Larco\*, W.Q. Yang, and B. Strik. 2007. Evaluation of two organic fertilizer blends for



- highbush blueberry production in Oregon. HortScience 42 (4, July):897, (abstr.).  
 T. Righetti, D. Sandrock, J. Lambrinos, and B.Strik. 2007. Derivatives rather than ratios should be evaluated in biological research. HortScience 42 (4, July):850, (abstr.).  
 B.C. Strik, and E. Thompson\*. 2006. Production systems for primocane-fruited blackberries. HortScience 41:913-914 (abstr.).

17 abstracts prior to last promotion

4. Presentations to peers

**Oral presentations** given by me, to peers since 1997 (last promotion).

Year	Oregon	National	International	Attendees	No. talks	No. invited
2021	3	2	7	1546	12	3
2020	0	3 (OR,WA); 1 (NC)*	0	115	4	1
2019	0	3 (WA)	2 (Switzerland)	490	5	0
2018	0	1	0	1000	1	0
2017	0	0	1 (OR)*; 1 (Portugal)	500	2	1
2016	0	3 (GA)*	4 (FL); 1 (Canada)	1475	8	3
2015	2		2 (NC)	450	4	0
2014	0	4 (FL)*; 1 (CA)*	3 (Australia)*	710	8	4
2012	1	3 (FL); 2 (WA)	4 (Netherlands)	1025	10	2 (1 as keynote)
2011	1*	2 (Wash. DC)*; 2 (HI)*	2 (Serbia)*	700	7	5 (1 as keynote)
2010	0	1 (MI)*; 2 (ID)	1 (Portugal)*	530	4	2 (1 as keynote)
2009	0	1 (MO); 1 (WA)	0	285	2	0
2008	4	1 (FL)	0	525	5	0
2007	0	5 (WA); 2 (NJ); 2 (AZ)	0	800	9	0
2006	1	2 (LA)*	1 (Chile)*	570	4	2 (1 as keynote)
2005	2	1 (LA); 1 (AZ)	5 (Chile)*	950	9	1 (as keynote)
2004	0	0	4 (Portugal)*	740	4	1 (as keynote)
2003	0	0	0	0	0	0
2002	0	0	2 (Canada)*	250	2	2
2001	2*	2 (ID)	1 (China)	555	5	1
2000	0	3 (NV)*	1 (Chile)*	420	4	2 (1 as keynote)
1999	0	0	1 (Australia)*	220	1	1 (as keynote)
Total	16	51	43	13856	110	31 (8)

All presentations to peers are listed elsewhere in proceedings or abstract sections, except:

*(recent examples only)*

- Strik, B.C. and A.J. Davis. 2021. Organic production systems in northern highbush blueberry – After 14 years of research what are best choices for in-row mulch and fertilization practices? Webinar for the American Society for Horticultural Science, Nov. 16, 2021 (invited; 83)  
Strik, B.C. and A.J. Davis. 2021. Lessons learned from long-term research on organic production systems of northern highbush blueberry. ISHS XII International *Vaccinium* Symposium, Aug. 30 2021  
 Strik, B.C., A.J. Davis and P. Jones. 2021. Low-input pruning options in ‘Mini Blues’ for specialized processed markets reduce production costs while maintaining yield and quality.

- ISHS XII International *Vaccinium* Symposium, Aug. 30 2021
- Bryla, D., S. Orr, A. Davis, and B. Strik. 2021. Crop Coefficients for Estimating Evapotranspiration in a New Planting of Trailing Blackberry. American Society for Horticultural Science, August 6, 2021.
- Strik, B.C. and A.J. Davis. 2021. Revised leaf tissue nutrient sufficiency standards for northern highbush blueberry in Oregon. ISHS XII International *Vaccinium* Symposium, Aug. 30 2021
- Strik, B.C. and J. Fernandez-Salvador. 2021. A tribute to Chad Elliott Finn (1962-2019). ISHS Strawberry Symposium, May 1, Rimini, Italy (virtual) – **invited** (400)
- Strik, B.C., and A. Davis. 2021. Impact of planting density and pruning and training method on growth, yield and machine-harvest efficiency of ‘Columbia Star’ trailing blackberry. North American Raspberry and Blackberry Conference, Feb. 24, 2021.
- Strik, B.C and A. Davis. 2020. Alternative fertilizer options for long-term sustainability in organic production systems of northern highbush blueberry. Northwest Center for Small Fruits Research Conference, Dec. 15, 2020 (virtual)
- Strik, B.C. 2020. Tips for undergraduate and graduate students for a successful professional career. NCCC-212, North Carolina State University Oct. 27. (virtual; invited)
- Strik, B.C., A.J. Vance, D.R. Bryla, and D.M. Sullivan. 2019. Organic production systems in northern highbush blueberry: II. Impact of planting method, cultivar, fertilizer, and mulch on leaf and soil nutrient concentrations and relationships with yield from planting through maturity. Northwest Center for Small Fruits Research Conference, Dec. 3, 2019, Ferndale, WA
- Strik, 2016. Extension Agent training session at the Southern Region Small Fruits Consortium, Savannah, GA. Led a 1.5-hour training (presentation) on advising growers on small fruits nutrition. Participation in a panel on interpretation on soil analysis reports and another on tissue testing. January 7 (35) – **invited**
- Strik, 2016. Weed management options and costs in organic blueberry. ISHS *Vaccinium* Symposium, April 11. Orlando, FL (200)
- Strik, 2015 Tissue nutrient standards in blackberry & economics of organic blackberry (with Dixon). International Society for Horticultural Science *Rubus* Symposium, Asheville, N.C. (150)
- Strik, 2014 Adaptation of primocane-fruited blackberry. Panel member to discuss climate impacts on global berry production. Inter. Hort. Congress, II Berry Symp. Aug. 20, 2014, Brisbane, Australia (100) - **invited**
- Strik, 2014 Uptake and partitioning of nutrients in blackberry & raspberry and evaluating plant nutrient status for accurate assessment of fertilizer requirements. Amer. Soc. Hort. Sci., Orlando, FL, Aug. 1 (80 peers) – **invited**
- Strik, 2014 Nutrient management in red raspberries – developing a program based on plant needs and responses. Global Raspberry & Labor Efficiencies Conference, Oxnard, CA. April 22. (200 peers & growers)
- Strik, 2012 Organic blackberry production systems. Northwest Center for Small Fruits Research, Kennewick, WA (100 peers & growers)
- Strik, 2012 Organic blueberry production systems – advances in research and industry. X ISHS *Vaccinium* Symposium, keynote address, June 2012 (225 peers) **invited**
- Strik, 2012 Seed set and berry development in commercially-grown blueberry cultivars. Annual ASHS meeting, Miami, FL, Aug. 2012
- Strik, 2011. “How Senior Faculty and ARS Scientists Maintain Successful, Exciting Programs”

- (with Chad Finn, USDA-ARS). In Symposium on “How to succeed professionally in academia, government or industry”, Amer. Soc. Hort. Sci. Annual meeting, Waikoloa, Hawaii, Sept 26. (65 peers) – **invited**
- Strik and Kennedy. 2011. “Tips for improving dossiers for promotion and tenure”. College of Agricultural Sciences Administrator’s meeting, Dec. -- **invited**
- Strik, 2011. “Tips for writing successful grant proposals” In workshop “Integrated Organic Program Directors and Applicants Workshop”, Amer. Soc. Hort. Sci. Annual meeting, Waikoloa, Hawaii, Sept 26. (50 peers) - **invited**
- Strik, 2011. “Organic Fruit Production Research” In Panel on “Closing the loop – stakeholder driven research benefits consumers”, USDA Organic Farming Systems Research Conference, Washington DC, March 17 (125 peers and growers) – **invited**
- Strik, 2010. “Organic Blueberry Production Research” at North Amer. Blueberry Research and Extension Workers’ Conf., Michigan, July 27 (95 peers) – **invited**

### Poster presentations

I have presented 81 posters at professional meetings

- “Revised leaf tissue nutrient sufficiency standards for northern highbush blueberry in Oregon”. Strik, B.C. and A.J. Davis. 2021. ISHS XII International *Vaccinium* Symposium, Aug. 30 2021
- “Improving production efficiency in ‘Legacy’ blueberry through pruning, trellising, and harvest techniques”. Strik, B.C. A.J. Davis, P. Jones. 2021. ISHS XII International *Vaccinium* Symposium, Aug. 30 2021
- “Lessons learned from 30 years of evaluating northern highbush blueberry genotypes – the importance of rotating plantings and using commercial production methods”. Jones, P., Luby, C., Strik, B.C., Mackey, T., Hardigan, M. and Finn, C. 2021. ISHS XII International *Vaccinium* Symposium, Aug. 30 2021
- “Impact of planting density and pruning and training method on growth, yield and machine-harvest efficiency of ‘Columbia Star’ trailing blackberry.” Strik, B.C. and A. Davis. North American Raspberry and Blackberry Growers’ Assoc. annual conference Feb 23-26, 2021.
- “Impact of planting density and pruning and training method on growth, yield and machine-harvest efficiency of ‘Columbia Star’ trailing blackberry”. Strik, B.C., and A. Davis. 2020. Northwest Center for Small Fruits Research, Dec. 15 (virtual)
- “Breeding Improved Berry Crop Cultivars for the Pacific Northwest: The USDA-ARS/Oregon State University Small Fruit Breeding Program at the North Willamette Research and Extension Center.” Strik, B.C., C. Finn, and M. Hardigan. 2020. Northwest Center for Small Fruits Research, Dec. 15, 2020 (virtual),
- “Using the relationship between fertilization practices, soil and plant nutrient status, and yield in caneberry grower fields to inform research and extension programs”. Jones, P.A., A.J. Vance, and B.C. Strik. ISHS Rubus/Ribes Symposium, Zurich, Switzerland, June 25-29, 2019
- “Fruit development in blackberry types and cultivars – impact of days and temperature from anthesis to stages of ripening”. Vance, A.J., P.A. Jones, C.E. Finn, and B.C. Strik. ISHS Rubus/Ribes Symposium, Zurich, Switzerland, June 25-29, 2019
- “Stomatal functioning and its influence on calcium accumulation during fruit development in northern highbush blueberry”. Yang, F-H, B. Strik, L.W. DeVetter, B.C. and D.R. Bryla.

2018. Amer. Soc. Hort. Sci. Annual Meeting, Washington, DC July
- “Impact of sampling date, gender, and shoot type on the nutrient concentration of hardy kiwifruit leaves”. Strik and Vance. ISHS Kiwifruit Symposium, Oporto, Portugal, Sept. 6-10, 2017
- “Foliar Applications of Calcium Products had No Impact on Calcium Levels or Fruit Quality of ‘Hood’ and ‘Albion’ Strawberry” Strik, Jones, Vance. ISHS Strawberry Symposium, Aug. 25, 2016. Quebec City, Canada.
- “Applications of Foliar Calcium Products to Fruit Had No Impact on Firmness and Shelf-life of blueberry Cultivars” Jones, Vance, and Strik. ISHS Vaccinium Symposium, April 11 2016, Orlando, FL
- “Evaluation of Potting Media for Soilless Cultivation of Southern Highbush Blueberry”, Kingston, Scagel, Bryla, Strik. ISHS Vaccinium Symposium, April 11 2016, Orlando, FL
- “Developing nutrient management recommendations for organic blueberry production” Strik, Vance, Bryla, Sullivan. Northwest Center for Small Fruits Research, Dec. 7, 2016 Kennewick, WA
- “Testing and evaluation of berry crops for commercial production in the PNW” Strik and Finn. Northwest Center for Small Fruits Research, Dec. 7, 2016 Kennewick, WA
- “Developing nutrient management recommendations for organic blueberry production” Strik, Vance, Bryla, Sullivan. Northwest Center for Small Fruits Research, Dec. 1, 2015 Portland
- “Testing and evaluation of berry crops for commercial production in the PNW” Strik and Finn. Northwest Center for Small Fruits Research, Dec. 1, 2015 Portland
- “Response of blackberry cultivars to fertilizer source in an organic fresh market production system.” Fernandez-Salvador, Strik, Bryla. ASHS, Orlando, FL July 28-Aug. 2, 2014
- “Organic blueberry production systems: Management of plant nutrition, irrigation requirements, and weeds”, Strik, Bryla, Vollmer and Sullivan. ASHS, Miami, FL July 29-Aug 4, 2012
- “Seed set and berry development in commercially-grown blueberry cultivars”, Strik, Finn, and Vollmer. ASHS, Miami, FL July 29-Aug 4, 2012
- “Nitrogen fertilization rate, sawdust mulch, and pre-plant incorporation of sawdust – long-term impact on yield, fruit quality, and soil and plant nutrition in ‘Elliott’ blueberry”, Strik and Buller. ASHS, Miami, FL July 29-Aug 4, 2012
- “Organic blueberry production systems: Management of plant nutrition, irrigation requirements, and weeds”, Strik, Bryla, Vollmer and Sullivan. ISHS Organic Symposium, Leavenworth, WA June 17-22, 2012
- “Response of blackberry cultivars to fertilizer source in an organic production system”, Fernandez-Salvador, Strik, Finn, and Bryla. ISHS Organic Symposium, Leavenworth, WA June 17-22, 2012
- “Weed, water, and nutrient management practices in organic blackberries”, Harkins, Strik, Bryla, and Buller. ISHS Organic Symposium, Leavenworth, WA June 17-22, 2012
- “Fertigation with Liquid Fish Emulsion for Organic Production of Highbush Blueberry”, Valenzuela-Estrada, Bryla, Sullivan, Strik. ISHS Vaccinium Symposium, Maastricht, Netherlands, June 17-22, 2012.
- “The impact of plant age and cultivar on yield and its components in highbush blueberry”, Strik, Finn, Vollmer. ISHS Vaccinium Symposium, Maastricht, Netherlands, June 17-22, 2012.
- “Organic highbush blueberry production systems ”Strik, Bryla, Vollmer, and Sullivan. NCSFR, Portland, Ore., Dec. 2, 2011.
- “Organic blackberry production systems” Strik, Harkins, Bryla, and Buller. NCSFR, Portland,

- Ore., Dec. 2, 2011.
- “Influence of weed mat and surface sawdust mulch on soil nutrient availability and soil chemical properties under organic blueberry production.” Valenzuela-Estrada, Bryla, Sullivan, and Strik. ASHS Annual Meeting, Hawaii, Sept. 25-29, 2011.
- “Seasonal variation in leaf nutrient concentrations in floricane- and primocane-fruiting red raspberries” Bryla and Strik. X ISHS Rubus and Ribes Symposium, Zlatibor, Serbia, June 21-24, 2011.
- “Organic highbush blueberry production systems” Strik, Bryla, and Vollmer. Organic Cropping Systems Conference, Washington DC, March 16-18, 2011.
- “Organic highbush blueberry production systems ”Strik, Bryla, and Vollmer. NCSFR, Boise, Idaho, Dec. 3, 2010.
- “Organic blackberry production systems” Strik, Bryla, and Buller. NCSFR, Boise, Idaho, Dec. 3, 2010.
- “Nutrient partitioning in mature blueberry plants”. Strik, B. and D. Bryla. NCSFR Annual Meeting, Dec. 3, 2009, Kennewick, Wash.
- “Establishing organic highbush blueberry production systems – the effect of raised beds, weed management, fertility, and cultivar”. ASHS, St. Louis, MO, July 25-29, 2009.
- “Breeding improved berry crop cultivars for the Pacific Northwest”. Strik, B. and C. Finn. NCSFR Annual Meeting, Dec. 4, 2008, Corvallis, Ore.
- “Weed and fertility management of a newly established organic blueberry field”. Strik, B., H. Larco, G. Buller, and D. Bryla. NCSFR Annual Meeting, Dec. 4, 2008, Corvallis, Ore.
- “Evaluating berry firmness and brix of newly released highbush blueberry cultivars” Yang, W.Q., C.E. Finn, and B.C. Strik. 9<sup>th</sup> ISHS Vaccinium Symposium, July 13-17, 2008, Corvallis, Ore.
- “Fifteen years and 120 genotypes later what have we learned about trialing blueberry cultivars in the Pacific Northwest?” Finn, C.E., B.C. Strik, B., and A. Wagner. 9<sup>th</sup> ISHS Vaccinium Symposium, July 13-17, 2008, Corvallis, Ore.
- “Effects of irrigation method and level of water application on fruit size and yield in red raspberry (*Rubus idaeus* L.) during the first year of full production.” Bryla, D., D. Kaufman, and B.C. Strik, Annual ASHS meeting, Orlando, FL July, 2008
- “Primocane management systems for increased yield and hardiness in Marion blackberry”. Strik, B. and G. Buller. NCSFR Annual Meeting, Nov. 29, 2007
- “Weed and fertility management of a newly established organic blueberry field”. Strik, B., H. Larco, and G. Buller. NCSFR Annual Meeting, Nov. 29, 2007
- “Primocane-fruiting blackberry production systems for season extension”. Strik, B. and E. Thompson. NCSFR Annual Meeting, Nov. 29, 2007
- “Evaluation of hardy kiwifruit germplasm”. Strik, B., K. Hummer, and C. Finn. NCSFR Annual Meeting, Nov. 29, 2007
- “Improving fresh market quality of blueberries through post-harvest handling and storage” Lin, D., Y. Deng, B.C. Strik, and Y. Zhao. NCSFR Annual Meeting, Nov. 29, 2007
- “The influence of nitrogen nutrition on cranberry yield components” Hart, J., Strik, B.C., and Roper, T. N.A. Cranberry Research and Extension Workers’ Conf. Annual Meeting, New Jersey, 2007
- “Renovating beds in Oregon” White, L., Hart, J., and Strik, B.C. N.A. Cranberry Research and Extension Workers’ Conf. Annual Meeting, New Jersey, 2007
- “Effects of irrigation method and level of water application on fruit size and yield during the first

- year of production in red raspberry” Bryla, D.R., D. Kaufman, and B.C. Strik. ASHS Annual Meeting, Scottsdale, AZ, 2007
- “Season extension of primocane-fruited blackberry in a mild climate using high tunnels” Thompson, E. and B.C. Strik. ASHS Annual Meeting, Scottsdale, AZ, 2007
- “Effect of edible coatings on quality of fresh blueberries (Duke and Elliott) during refrigeration storage” Lin, D., Y. Deng, B.C. Strik, and Y. Zhao. IFT Annual Meeting, 2007
- “Flowering and fruiting morphology of primocane-fruited blackberries”. Thompson, E., B. Strik, J.R. Clark, and C. Finn. 2005, Dec. 7-9, ISHS *Rubus/Ribes* Symposium, Pucon, Chile
- “Do primocanes and floricanes compete for soil water in blackberry?” Bryla, D. and B. Strik. 2005, Dec. 7-9, ISHS *Rubus/Ribes* Symposium, Pucon, Chile
- “Breeding improved berry crop cultivars for the Pacific Northwest” Strik, B. and C. Finn. Northwest Center for Small Fruits Research, Portland, Ore. Dec. 2-3, 2005
- “Phenolic composition and antioxidant activity of hardy kiwifruit (*Actinidia arguta* ‘Ananasnaya’) Fisk, C.L., J.A. Kennedy, B. Strik, and Y. Zhao. June 13-14, 2005. International Berry Health Symposium, Corvallis, Ore.
- “Plant water use differs among three mature highbush blueberry cultivars” Yang, W., D. Bryla, and B. Strik, ASHS meeting, 2005
- “Quality evaluation and shelf-life extension of hardy kiwifruit (*Actinidia arguta* ‘Ananasnaya’)” Fisk, C., A. Silver, M. McDaniel, B. Strik, and Y. Zhao. IFT Annual Meeting, New Orleans, LA, July 16-20, 2005
- “Variation in Plant and Soil Water Relations among Irrigated Blueberry Cultivars Planted at Two Distinct In-Row Spacings”, Bryla, D. and B. Strik. 8<sup>th</sup> International *Vaccinium* Symposium, Portugal, May 3-9, 2004
- “The impact of early cropping on subsequent yield of highbush blueberry”, Strik and Buller, 8<sup>th</sup> International *Vaccinium* Symposium, Portugal, May 3-9, 2004
- “Performance of chokeberry (*Aronia melanocarpa*) in Oregon”. Strik, B., C. Finn, and R. Wrolstad. ISHS, Toronto, Aug, 2002
- “Effect of in-row spacing and early cropping on yield and dry weight partitioning of three highbush blueberry cultivars the first two years after planting” Strik, B. and G. Buller, North American Blueberry Research and Extension Workers Conference, Halifax, NS., Aug.
- “Flowering and fruiting morphology of hardy kiwifruit, *Actinidia arguta*. ISHS, Wuhan, China, Sept, 2002.
- “Reducing thorn contamination in machine-harvested ‘Marion’ blackberry”. Strik, B. and G. Buller. International *Rubus/Ribes* Symposium, July, 2001; NCSFR, Boise, ID, Nov. 2001.
- “*Raspberry Bushy Dwarf Virus* (RBDV) reduces yield of ‘Marion’ blackberry” Strik, B. and G. Buller. International *Rubus/Ribes* Symposium, July, 2001; NCSFR, Boise, ID, Nov. 2001.

*Prior to last promotion*

- "Flower bud organogenesis and development in blackberry cultivars", F. Takeda, B. Strik, and J. Clark, ASHS, 1996
- "The effect of bud thinning on yield compensation in 'Kotata' and 'Marion' trailing blackberry", J. Mann and B. Strik, 1995, ASHS, NW Center for Small Fruits Research
- "Blackberry genotypes differ in within blossom fruit set", B. Strik, J. Mann, and C. Finn, 1995, ASHS, NW Center for Small Fruits Research
- "Date of renovation affects yield and cold hardiness of strawberry", B. Strik, N. Bell, and G. Koskela, 1995, North Amer. Strawberry Conf. Orlando, FL

- "Biology of grape phylloxera in Oregon", A. Connelly, B. Strik, J. Granett, and G. Fisher, 1994, ASHS
- "Date of renovation affects yield and cold hardiness of strawberry", B. Strik, N. Bell, and G. Koskela, 1994, ASHS
- "Effect of date of primocane suppression on 'Marion' trailing blackberry", N. Bell, B. Strik, and L. Martin, 1994, ASHS
- "Effect of floricanes number and primocane fruiting on primocane growth in 'Marion' blackberry", J. Cortell and B. Strik, 1994, ASHS
- "Fruiting reduces following year fruit set in cranberry uprights", C.J. DeMoranville, T.R. Roper, K.D. Patten, J.R. Davenport, B.C. Strik, and A.P. Poole, 1992, ASHS
- "Grape phylloxera in Oregon", B.C. Strik and A. Connelly, 1992, Extension Annual Conference, OSU
- "Grape phylloxera in Oregon" and "Vineyard site selection", Linn-Benton Regional Strategy Research Day, 1992
- "Time and severity of pruning on cranberry yield components and fruit color", B. Strik and A. Poole, ASHS, 1991
- "The effect of time of renovation on strawberry", N.A. Strawberry Conference, 1990 (Zhang, Strik, and Martin), first place award
- "Biennial bearing in cranberry: How extensive is it?", American Society for Horticultural Science, 1990, cooperative research project, authors: Strik, Roper (WI), DeMoranville (MA), Davenport (MA), and Poole (OR)
- "N rate and timing effect on cranberry yield and yield components", American Society for Horticultural Science, 1990, cooperative research project with J. Hart, A. Poole, and K. Wilder

##### 5. Grants and fund raising

I generated \$7,008,335 in total support for my program since 1988, including \$2,813,258 from peer-reviewed organizations (listed here in bold). Only my share on grants is totaled, but for large grants, the total amount for the entire grant is provided in brackets under grant title.

###### Endowment:

**Endowed Berry Crops Professorship** developed in 2011 for my replacement after retirement. To date: \$1 million

###### PACE:

**PACE online blueberry physiology and production course** (First offered in 2017; 10 offerings until retirement in December 2021). Funds were used to support an instructor to assist with courses. *Enrollment: 355 students. Scholarships provided: 57 students totaling \$44,793. Income to my program through Dec. 2021: \$237,509.*

**PACE on-demand pruning modules for home garden and small farm (5 modules)** (First offered in January 2020); 400 enrollments as of Dec. 2021. *Income to my program through December 2021: \$13,792*

Grants:

**Last 10 years presented:**

<u>Title (and P.I.'s if other than Strik)</u>	<u>Funding Organization<sup>z</sup></u>	<u>Amount Funded</u>
<i>2021-22:</i>		
Machine harvesting for specialized processed markets	OBC	11,120
Humic acids organic mature blueberry	OBC	11,600
Strawberry Breeding	OSC	16,700
Caneberry Breeding	ORBC	36,940
Blueberry Breeding	OBC	20,970
<b>Humic acids in organic blueberry (year 2 of 3)</b>	<b>NCSFR</b>	<b>42,785</b>
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,299</u>
		205,414
<i>2020-21:</i>		
Machine harvesting for specialized processed markets	OBC	10,350
Weed mat color evaluation blueberry	OBC	11,233
Strawberry Breeding	OSC	16,700
Caneberry Breeding	ORBC	38,040
Blueberry Breeding	OBC	26,220
<b>Pruning/training of Columbia Star blackberry (year 3 of 3)</b>	<b>NCSFR</b>	<b>34,111</b>
<b>Humic acids in organic blueberry (year 1 of 3)</b>	<b>NCSFR</b>	<b>42,223</b>
Testing of HB-101	gift	17,770
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,299</u>
		261,946
<i>2019-20:</i>		
Machine harvesting for specialized processed markets	OBC	10,300
New blueberry evaluation planting	OBC	7,374
Weed mat color evaluation blueberry	OBC	10,607
Strawberry Breeding	OSC	16,500
Caneberry Breeding	ORBC	38,420
Blueberry Breeding	OBC	17,220
Pruning/training of Columbia Star blackberry	NCSFR	32,563
Development of alternative fertilizer programs to mitigate nutrient problems in organic production	NCSFR	44,164
Management of soil pH E. Cascades organic blueberry (2019-22) (Lukas, S. PI; 5 coPIs; \$485,857; Strik share shown here)	NIFA-ORG Trans.	19,000
Testing of HB-101	gift	17,770
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,299</u>
		\$279,217



<u>Title (and P.I.'s if other than Strik)</u>	<u>Funding Organization<sup>z</sup></u>	<u>Amount Funded</u>
<i>2018-19:</i>		
Machine harvesting for specialized processed markets	OBC	10,298
Establishment of new evaluation planting	OBC	5,790
Weed mat color evaluation blueberry	OBC	6,000
Strawberry Breeding	OSC	16,500
Caneberry Breeding	ORBC	38,640
Blueberry Breeding	OBC	18,520
<b>Pruning/training of Columbia Star blackberry</b>	<b>NCSFR</b>	<b>28,986</b>
<b>Development of alternative fertilizer programs to mitigate nutrient problems in organic production</b>	<b>NCSFR</b>	<b>38,164</b>
<b>Management of SWD in organic systems (2018-21) (Ahmad PI; 15 coPIs; \$2 million; Strik share shown here)</b>	<b>NIFA-OREI</b>	<b>49,000</b>
Caneberry grower nutrient survey	Clackamas Innov.	21,815
Testing of HB-101	gift	16,216
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,299</u>
		\$315,228
<i>2017-18:</i>		
Machine harvesting for specialized processed markets	OBC	4,980
Establishment of new evaluation planting	OBC	25,000
Strawberry Breeding	OSC	16,500
Caneberry Breeding	ORBC	39,600
Blueberry Breeding	OBC	18,920
<b>Development of alternative fertilizer programs to mitigate nutrient problems in organic production</b>	<b>NCSFR</b>	<b>42,190</b>
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,299</u>
		\$212,489
<i>2016-17:</i>		
Mulching practices to improve blueberry in establishment	ARF	12,408
Evaluation of Parka to reduce fruit splitting in blueberry (Vance, PI)	Clackamas Innov	9,951
Machine harvesting for specialized processed markets	OBC	7,540
Development of outreach materials for strawberry industry	OSC	15,280
Physiology of Liberty and Duke	OBC	10,800
Strawberry Breeding	OSC	16,500
Caneberry Breeding	ORBC	44,500
Blueberry Breeding	OBC	18,920
<b>Developing nutrient management pgms for organic blueberry</b>	<b>NCSFR</b>	<b>36,563</b>
<b>Development of online graduate certificate in organic agriculture. Jeliazkov (lead PI); Strik coll. all \$250,000 to PD team</b>	<b>NIFA-OREI</b>	<b>0</b>
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,362</u>
		\$237,824

<u>Title (and P.I.'s if other than Strik)</u>	<u>Funding Organization<sup>z</sup></u>	<u>Amount Funded</u>
<i>2015-16:</i>		
Calcium applications for fruit quality in berries	ARF	11,670
Foliar Ca for improving fruit quality	ORBC	9,110
	OSC	9,170
	ORBC	12,170
	OBC	1,170
	WABC	11,000
	Clackamas Innov.	12,000
Root distribution in blackberry	ORBC	6,585
Physiology of Liberty and Duke	OBC	11,900
Organic blueberry survey (with J. Fernandez-Salvador)	Clackamas Innov.	9,440
Strawberry Breeding	OSC	13,890
Caneberry Breeding	ORBC	25,850
Blueberry Breeding	OBC	18,920
<b>Developing nutrient management pgms for organic blueberry</b>	<b>NCSFR</b>	<b>36,606</b>
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,419</u>
		<i>\$254,900</i>
<i>2014-15:</i>		
Leaf nutrient conc. for blueberry cultivars	WABC	9,335
Leaf nutrient conc. for blackberry cultivars	ORBC	9,110
Strawberry Breeding	OSC	12,750
Caneberry Breeding	ORBC	24,280
Blueberry Breeding	OBC	18,000
Organic blueberry production systems	OBC	18,620
<b>Developing nutrient management pgms for organic blueberry</b>	<b>NCSFR</b>	<b>32,644</b>
Littau machine harvester for season	Littau	33,000
Cooperative breeding – berries	ARS	<u>32,419</u>
		<i>\$190,158</i>
<i>2013-14:</i>		
Leaf nutrient conc. for blueberry cultivars	ARF	11,580
	WABC	9,260
Leaf nutrient conc. for blackberry cultivars	ORBC	8,326
Strawberry Breeding	OSC	12,000
Caneberry Breeding	ORBC	23,000
Blueberry Breeding	OBC	17,000
Impact of cultivar & maturation on blueberry yield	OBC	6,600
Organic blueberry production systems	WABC	4,914
	OBC	10,982
Russian language caneberry nutrient mngmt publication	Clackamas Innov. Grant	5,975
Littau machine harvester for season	Littau	33,000

<u>Title (and P.I.'s if other than Strik)</u>	<u>Funding Organization<sup>z</sup></u>	<u>Amount Funded</u>
Jacto cannon sprayer (donated)	Jacto	11,000
On-Target electrostatic sprayer (donated)	On-Target	20,000
<b>Long-term effects of N rate and sawdust, blueberry</b>	<b>NCSFR</b>	<b>35,000</b>
Cooperative breeding – berries	ARS	<u>56,502</u>
		\$265,139
<i>2012-13:</i>		
Strawberry Breeding	OSC	12,000
Caneberry Breeding	ORBC	23,000
Blueberry Breeding	OBC	17,000
Fruit set and berry development	OBC	8,510
Organic blueberry production systems	WABC	7,914
Littau machine harvester for season	Littau	33,000
<b>Long-term effects of N rate and sawdust, blueberry</b>	<b>NCSFR</b>	<b>33,400</b>
Cooperative breeding – berries	ARS	<u>38,012</u>
		\$172,836
<i>2011-12:</i>		
Carbon sequestration in blueberry (with Lambrinos)	ARF	12,384
Strawberry Breeding	OSC	12,000
Caneberry Breeding	ORBC	23,000
Blueberry Breeding	OBC	17,000
Fruit set and berry development	OBC	8,600
Long term impacts of use of sawdust	OBC	7,120
Littau machine harvester for season	Littau	33,000
<b>Organic blueberry production systems</b>	<b>NCSFR</b>	<b>34,637</b>
<b>Organic blackberry production systems</b>	<b>NCSFR</b>	<b>36,644</b>
Cooperative breeding – berries	ARS	<u>47,975</u>

<sup>z</sup>OSC = Oregon Strawberry Commission, ORBC = Oregon Raspberry and Blackberry Commission, CAAR = Center for Applied Agricultural Research, OBC = Oregon Blueberry Commission, WARC = Washington Raspberry Commission, NCSFR = Northwest Center for Small Fruits Research, OCGA = Oregon Cranberry Growers' Association, OSpC = Ocean Spray Cranberries, WAB = Oregon Wine Advisory Board, BHKV = Brotherhood of the Knights of the Vine, ARF = Agricultural Research Foundation, OES = OSU Extension Service, BCBC = B.C. Blueberry Council, NWFPA = Northwest Food Processors Association, WABC = Washington Blueberry Commission, WACC = Washington Cranberry Commission; GRF=General Research Fund, OSU.

## 6. Professional meetings

### *Membership in Professional Societies*

American Society for Horticultural Science  
International Society for Horticultural Science (ISHS)  
American Pomological Society  
Oregon State University Extension Association (OSUEA)  
North American Strawberry Growers Association (NASGA)  
North American Bramble Growers Association (NABGA)

## D. SERVICE

### 1. University Service

Faculty Senate Executive Committee (elected), 2014-2016 (2 years)  
Faculty Senate, 1992-93; 1999-2003; 2004-2006; 2011-13; 2014-16  
OSUEA President, 2012  
O&E Vice Provost's Cabinet, faculty rep., 2011-12  
OSUEA President elect, 2011  
OSU representative, NCCC-212 (Berry and Grape Crops), 2001-2022  
Multi-State Project W-504 (Spotted Wing Drosophila), member, 2010-2022  
OSU Extension Revenue Generation Task Force, Sept. 2003 – 2004  
OSU Visioning 2007 – Scholarship Committee, 2002 (OSU invited)  
WELD program participant, P&T project, 2001-02  
Member, "Team Logic", Extension, 2001-02  
Member, Extension Diversity Committee, 2000-01  
Dean's Representative to the Oregon Blueberry Commission, 1988-2020

NCCC-212 meeting organization, Oct. 27-29, 2014. OSU, Corvallis (co-convener)

#### *Prior to last promotion*

Poster Committee, OSUEA, 1990-1994 (chair, 1993)  
Extension Annual Conference, organizing committee, 1992  
Foundation Seed Committee, 1992  
Member Agricultural Programs Advisory Committee (Dr. C. O'Connor), 1991, 1992  
Secretary, OSUEA, 1991  
Professional Development Committee, OSUEA, 1988-1994  
Chair, Sub-Committee OSUEA Professional Development Committee for prizes at the 1989  
Extension Annual Conference  
Member Faculty Panel for Hearings, 1991  
Member and Chair of Small Fruits Extension Task Force, 1988-1990  
Volunteer, OSU booth at State Fair, 1989  
Faculty Advisor to the Canadian Student's Association, 1989-1990

#### **Selection Committees:**

Director, North Willamette Research and Extension Center (2020-21)  
Extension Program Leader, College of Ag. Sci 2014 (Sam Angima)  
Interim Dean, College of Ag. Sci., OSU, March 2008 (Bill Boggess)  
Systems Horticulturist, Hort Crops Research Lab, USDA (David Bryla), 2001-02

#### *Prior to last promotion:*

Faculty Advisory Committee for Selection of Dean of the College of Agriculture (C.J. Weiser),  
1991  
Electronic Media Specialist, Agricultural Communications (Steve Dodrill), 1990  
Extension Food Processing Specialist, Food Science and Technology (Diane Barrett), 1989

### **Service related to P&T at University level**

Mentoring committee, E. Tomasino, Dept. Food Sci. & Tech. (2013-2019)  
College of Agricultural Sciences Faculty P&T Committee, 2010-12 (co-chair, 2011-12)  
Organizer OSUEA day at O&E conference, Oct. 31, 2012  
Co-organizer P&T Workshop for Extension Faculty, O&E conference, Oct. 31, 2012  
P&T Committee member, Dana Martin, Dept. Ag. Ed. & Gen. Ag, 2011  
College of Agricultural Sciences, P&T Working Group, 2010  
College of Agricultural Sciences P&T Committee, member, 2009-10  
Peer Teaching Evaluation, Yanyun Zhao, Dept. Food Sci. and Tech. fall 2003

Strik, B. 2012. Template for Curriculum Vita for Faculty in College of Agricultural Sciences. Presented at the OSUEA Promotion and Tenure Workshop, Oct. 31, 2012. Revised in May 2018. Available at: <http://agsci.oregonstate.edu/faculty-staff/promotion-tenure>

Strik, B. and P. Kennedy. 2011. Guidance for content and formatting of promotion and tenure dossiers, College of Agricultural Sciences. Presented at CAS Administrators' workshop on Mentoring Faculty for Success. Available at: <http://agsci.oregonstate.edu/faculty-staff/promotion-tenure>

### 2. Departmental/unit Service

Mentoring committee member (2018)  
P&T Committee, Dept. Horticulture (2012-13 chair; 2014-2015 chair; 2015-16; co-chair 2016-17; 2017-18)  
Berry Working Group (Extension & Research statewide), Chair 2012-2022  
Comprehensive Peer Teaching Review Committee (Contreras), 2012  
P&T Coordinator for the School of Integrated Plant, Soil, and Insect Systems (IPSI), 2011- 2012  
School of Horticulture, Crops, Soils, & Insects, Executive Council, 2011- 2012  
School of Horticulture, Crops, Soils, & Insects, Admin. Planning Team, 2011  
Dept. Horticulture, P&T sub-committee, 1995; 2007-2012 (chair 2010-12)  
Member, Land Use and Planning Committee, NWREC, 2007-2022  
Horticulture Graduate Admissions Committee, 2007  
Horticulture Department Consultative Committee, 1997-99; 2003-2011  
Evaluating Scholarship Programs Committee, horticulture, 2002  
Marketing horticultural programs committee, chair, 2002

Serve as a mentor for 15 junior faculty, Dept. Horticulture, 2007-present

### **Selection/screening Committees:**

Extension horticulturist, Coos & Curry Counties, 2014 (Cassie Bouska)  
Research Viticulturist, Dept. Horticulture, Sept., 2008 (Laurent DeLuc)  
Horticulture research faculty, tree fruit, MCAREC (Todd Einhorn), Sept 2007  
Undergraduate student advisor, Dept. Hort., 2006 (Kelly Donegan)  
Co-chair, Viticulture Extension Specialist, Dept. Hort., 2006 (Patty Skinkis)  
Superintendent, NWREC, 2006 (Clark Seavert)

Co-chair, Extension Horticulturist Coos & Curry Counties, 2005 (first round)  
Systems Horticulturist, Hort Crops Research Lab, USDA (David Bryla), 2001-02  
Accountant, Horticulture (Wanda Terrell), 2001  
Viticulture Extension Agent/Specialist (Anne Connelly), 2001  
Chair, Berry Crops Extension Faculty, NWREC (Wei Yang), 2000  
Viticulture Research Assistant, Horticulture (J. Cortell), 2000  
Postharvest Physiologist, Horticulture (H. Stotz), 2000  
Berry Extended Education Research Assistant (Gina Koskela), NWREC, 1995  
Ornamentals Research, NWREC (Sven Svenson), 1994  
Department Head, Horticulture (Charles Boyer), 1993  
Research Viticulture Position, Horticulture (Carmo Candolfi), 1994  
Chair, Extension Tree Fruit Specialist, Horticulture 1991/92 (position frozen)  
Extension agent, Tree Fruit, Hood River (R. Reisinger), 1991  
Research Assistant, Caneberries, NWREC (Helen Cahn), 1990  
Research Assistant, Strawberries, NWREC (Rosa Hemphill), 1990

### 3. Service to the Profession

#### *Conference organizer*

American Society of Horticultural Science, Colloquium on Plant Nutrients in Berry Crops, Aug. 1, 2014, Orlando, FL (co-organizer)  
North American Strawberry Growers Assoc. & N.A. Raspberry & Blackberry Growers' Assoc. Annual meeting, Portland, Oregon, Jan. 2013 (co-organizer)  
International Society for Horticultural Science, co-convener (with C. Finn) of the 9<sup>th</sup> International *Vaccinium* Symposium, Oregon, 2008  
American Society for Horticultural Science Meeting, Co-Chair Local Arrangements Committee, 1994, hosted by OSU  
Oregon Horticulture Society Berry Day, 2002-2007  
International Society for Horticultural Science, International *Rubus/Ribes* Symposium, 1989, Vancouver, B.C. (organizing committee)  
Western Small Fruits Pest Conference, 1987, Portland  
Oregon Horticulture Society Berry Day, 1989, 1995, 2002  
Oregon Horticulture Society Grape Day, 1992  
North American Blueberry Research & Extension Worker's Conference, 1990, Portland  
North American Cranberry Research & Extension Worker's Conference, 1989, Bandon

#### *Session moderator at professional meetings:*

International *Vaccinium* Symposium, virtual August 2021  
International Strawberry Symposium, Quebec City, Canada, 2016  
ISHS business meeting, ISHS Strawberry Symposium, Quebec City, Canada, 2016  
ISHS business meeting, ISHS *Vaccinium* Symposium, Orlando, FL 2016  
International *Rubus/Ribes* Symposium, 2015  
Organicology, Portland, Feb. 8, 2013, Organic Berry Crops  
NASGA/NARBA, Portland, Jan. 30, 2013 Primocane Blackberries  
Oregon Hort. Soc., Strawberry/Caneberry Day, 2003-2007  
NCSFR, Production/Physiology, Chair, 1999

International *Rubus/Ribes* Symposium, 1998  
International Strawberry Symposium, 1996  
American Society for Horticultural Science, annual meeting: 1993, 1988  
Farming for Profit and Stewardship, 1994, Corvallis  
American Society for Enology and Viticulture, 1990

*Committees in Professional Societies:*

**International Society for Horticultural Science (ISHS):**

Council member (2018-present), one of three representatives for ASHS (selected by president of ASHS)  
ISHS awards committee (2018-2021)  
Chair, Section Vine & Berry Fruits, ISHS (member of Executive Board, 2010-2014 (**elected position**); 2014-2018 (**re-elected**))  
Scientific Committee, XI Intl. Symposium on Protected Cultivation in Mild Winter Climates and I Intl. Symposium on Nettings and Screens in Horticulture, Jan. 27-31, 2019, Spain, Canary Islands (**invited**)  
Scientific Committee, XII *Rubus* and *Ribes* Symposium, ISHS, Zurich, Switzerland, June, 2019 (**invited**)  
Scientific Committee, International Horticultural Congress, Aug. Istanbul, Turkey, 2015-2018 (**invited**)  
Scientific Committee, III Berry Symposium, IHC, Aug. Istanbul, Turkey, 2015-2018 (**invited**)  
Scientific Committee, International Horticultural Congress, Aug. Brisbane, Australia. Perennial fruit crops physiology, production, and horticultural science (2013-14) (**invited**)  
Scientific Committee, International Horticultural Congress, Aug. Brisbane, Australia. II Berry Crops Symposium (2013-14) (**invited**)  
Scientific Committee, 10<sup>th</sup> Intl. Vaccinium & Other Super Fruit Symposium, ISHS, The Netherlands, June, 2012 (**invited**)  
Executive Advisory Board, 10<sup>th</sup> Intl. Vaccinium & Other Super Fruit Symposium, ISHS, The Netherlands, June, 2012 (**invited**)  
Scientific Committee, International Rubus/Ribes Symposium, ISHS, Serbia, June, 2011 (**invited**)  
Scientific Committee, International Hort. Congress, ISHS, Lisboa, Portugal, August, 2010 (**invited**)  
Chair, *Vaccinium* Section of the ISHS, 2004- 2008 (**elected position**)  
Scientific Committee, 6<sup>th</sup> International kiwifruit symposium, Feb. 2006, New Zealand (**invited**)  
Chair, *Vaccinium* Section of the ISHS, 2001- 2004 (**elected position**)  
Chair of the Scientific Committee of the 8<sup>th</sup> International Vaccinium Symposium, Portugal/Spain, May 2004 (**invited**)

**American Society for Horticultural Science (ASHS):**

Selected as one of 3 representatives of ASHS on the Executive Council of the ISHS (2018-present)  
Member, ASHS Endowment Fund, 2008-2013  
Horticultural Landmarks Committee, ASHS, 1997-1999  
U.P. Hedrick Award, Amer. Pomological Society, 1996  
Best Paper Published Through ASHS, 1995-1996  
Strategic Planning, ASHS, 1993

Chair, Small Fruits Working Group, ASHS, 1993  
Elections and Nominations Committee ASHS, 1991-92  
Chair, sub-committee for Extension Peer Rev., Elections and Nominations Comm., ASHS, 1991

**Other:**

Northwest Regional and International Representative for the North American Bramble Grower's Association, 1991, 1992  
Nominated, Director NW American Society for Enology and Viticulture, 1991

*Editorial positions:*

Editorial Board, International J. Fruit Science (Taylor & Francis Group), 2014-present  
Editorial Board, *Acta Horticulturae*, volume 946, 2012  
Editorial Board, *Acta Horticulturae*, volume 926, 2012  
Associate Editor, *Acta Horticulturae*, volume 810, 2009  
Associate Editor, *Acta Horticulturae*, volume 715, 2006  
Associate Editor, Comprehensive Crop Reports, Fruit/Nut Crops, HortTechnology, 1999-2001

*Reviewer:*

**Peer- refereed papers:**

I reviewed about 8 to 10 papers a year for the following journals

- Journal of the American Society for Horticultural Science
- HortScience
- Fruit Varieties Journal/ Journal of the American Pomological Soc.
- Journal of Small Fruits and Viticulture
- HortTechnology
- Canadian Journal of Plant Science
- Small Fruits Review
- New Zealand J. Horticultural Science
- Czech Academy of Agricultural Sciences
- J. Agriculture and Food Chemistry

**Research grants (reviewed):**

Third Organic Science Cluster Activity Proposal, Canada, 2017  
Univ. California Coop. Extension, 2013  
NSERC (Canada) Competitive grants program, 2013  
California Dept. Food & Agriculture, Fertilizer Res. & Edu. Pgm, 2010  
NIFA-OREI grant panel member (**invited**, Washington DC), May-2009 (19 grants)  
Agriculture and Agri-Food Canada, Ontario, Canada, 2008 (4 grants)  
Leopold Center for Sustainable Agriculture, Iowa, 2008  
Agriculture and Agri-Food Canada, Ontario, Canada, 2007 (1 grant)  
University of Guelph Research Fund, Ontario, Canada, 2006  
Leef Edge Endowment Fund nomination, B.C., Canada, 2006  
Agriculture and Agri-Food Canada, Nova Scotia, Canada, 2005

**P&T dossiers from other Universities:**

2021 (1 candidate)



2020 (2 candidates)  
2019 (2 candidates)  
2018 (1 candidate; international)  
2015 (2 candidates)  
2012 (2 candidates)  
2011 (2 candidates)

*International Extension Activities*

- Blueberry pruning workshop, Italy (2020)
- Advisor training on blueberry physiology, nutrition, postharvest, Italy (2020)
- Blueberry grower workshops in Italy (2019) and Morocco (2018)
- Co-author on 2 DPI Extension publications (Australia) on fire recovery in berries
- Blueberry pruning workshop for advisors in Chile, 2008
- Member of Review Team to review HortResearch berry and hops breeding program, New Zealand, 2006

Conducted 8 International Extension Activities prior to last promotion

I hosted growers and colleagues from several countries here at Oregon State University: Finland, Great Britain, Holland, Uzbekistan, Republic of Georgia, Korea, Italy, Chile, Argentina, Canada, Spain, Australia, New Zealand, South Africa, China, and Poland.

4. Service to the Public (professionally related)

“A huckleberry by any other name: The story behind Westerners’ favorite wild berries”, All Things Considered, Oregon Public Broadcasting. Aug. 22, 2020.

<https://www.opb.org/article/2020/08/19/western-huckleberries-blueberries-oregon-washington/>

“Weed mats make sense for organic blueberries”, by K. Zipp. Research highlighted in Growing Produce, July 2019. <https://www.growingproduce.com/fruits/why-weed-mats-make-sense-for-organic-blueberries/>

Ag-Info net series of three interviews on impact from organic blueberry research outcomes.

2018: <http://www.aginfo.net/index.cfm/event/report/id/Fruit-Grower-Report-39051> ; story was also featured in The World Link and The Good Fruit Grower

Feast of Portland, 2017. Commodity expert at a dinner featuring blueberries.

State Plate, 2017. TV show on national television, featuring foods of Oregon. Served as a TV personality representing OSU to talk about marionberries. Five hours of filming in July 2017.

Show aired in October 2017

“Berries”, on KXL1190 in Portland with Mike Darcy, April 23, 2016 (1 hour)

“Blueberries”, on KXL1190 in Portland with Mike Darcy, March 12, 2016 (1.5 hours)

Hands-on blueberry pruning demo, Dallas, Oregon, March 14, 2015 (2 hours)

“Blueberries”, on KXL1190 in Portland with Mike Darcy, Feb. 21, 2015 (1.5 hours)

“Caneberries”, on KXL1190 in Portland with Mike Darcy, Feb. 14, 2015 (1.5 hours)

“Strawberries for success”, on KMUZ with Diana, Salem, April 8, 2014

“Strawberries”, on KXL in Portland with Mike Darcy, Jan. 18, 2014 (1 hour)

“All about berries”, on KXL in Portland with Mike Darcy, Jan. 14, 2012 (1.5 hours)

“Berries as landscape plants” **Oak Grove Garden Club**, Portland, April 20, 2011 (50 attendees)  
 “Berries” **Talk radio, 1360 KOHU Hermiston**, April 29, 2011, 60 min  
 “How to grow strawberries and blueberries successfully” **Insights into gardening** Corvallis,  
 Feb. 12, 2011 (250 attendees)  
 “Raisin’ Grapes: Growing Grapes in your Home Garden”, **Gearing up for Gardening**,  
 Corvallis, Jan. 11, 2011 (85 attendees)  
 “Caneberries” **Talk radio, 1360 KOHU Hermiston**, April 30, 2010, 60 min  
 “Berrylicious – use of berries in the landscape”, Gearing up for Gardening, Benton County,  
 Corvallis, Jan. 19, 2010 (40 min (135 attendees)  
 “Edible landscaping with berry crops”, Willamette Valley Green Industry Seminar, Oregon  
 Garden, Dec. 8, 2009  
 “Caneberries” **Talk radio, 1360 KOHU Hermiston**, May15, 2009, 60 min  
 “Blueberries” **Talk radio, 1360 KOHU Hermiston**, June 5, 2009, 60 min  
 “Pruning workshop for berry crops” **Oregon Garden, Feb. 7, 2009**, Silverton (30 attendees)  
 “Berry research at the NWREC”, Charbonneau tour for neighbors, May 12, 2008  
 “Caneberries” **Talk radio, 1360 KOHU Hermiston**, May16, 2008, 60 min  
 “Blueberries” **Talk radio, 1360 KOHU Hermiston**, May30, 2008, 60 min  
 “Pruning workshop for berry crops” **Oregon Garden, Feb. 23, 2008**, Silverton (30 attendees)  
 “Pruning workshop for blueberries” **OSU Benton County Extension, Jan. 26, 2008**, Corvallis  
 (115 attendees)  
 “Pruning workshop for table grapes” **OSU Benton County Extension, Jan. 26, 2008**, Corvallis  
 (90 attendees)  
 “Enjoying delicious berries and grapes in your garden in the fall” **Fall Fling, Sept. 8, 2007**,  
**Dallas, Ore.**(168 attendees)  
 “Choosing the right blueberry cultivar” **TV segment Smart Gardening, OPB, March 2006**  
 “Managing blueberries for high yield and good quality” **TV segment Smart Gardening, OPB,**  
**March 2006**  
 “Grape and blueberry pruning”, March 1, 2005, Marion County (12)  
 “Pruning berries and grapes an in-the-garden workshop”, March 6, 2004, Polk County (15)  
 “Berries you may not have thought of growing”. **Insights into gardening. OSU Extension**  
**Service event (invited, 50)**  
 “Pruning & Training Caneberries” **TV spot Good Day Lifestyles, FOX, Mallory Gwynn, Feb.**  
**17, 2004**  
 “Pruning Table Grapes” **TV spot In the Garden, KATU, Mike Darcy, Feb. 9, 2004**  
 “How to prune your grapes”, Feb. 1, 2003, Salem (65); Feb. 7, 2004 (45)  
 “Buckets of Backyard Berries”, 2002, Gearing up for Gardening Series, Corvallis (133)  
 “Pruning grapes for the homegarden” – indoor presentation (45 min.) plus outdoor hands-on (1.5  
 hours), Jan. 26 (65, general public and Master Gardeners), Salem, OR  
 “How to prune your grapes”, 2001, Polk County (11), Monmouth  
 "Blueberries and strawberries in your garden", 1999, Benton County Library (175), OSU Ext.  
 Serv. and LBCC

6 prior to last promotion

## Other service to public

School Board Member, Luckiamute Valley Charter School, Dallas School District, 2005-2007  
Officer of the Bridgeport School PTA Board, 2004-2005

## 5 Professional development

- Western Extension Leadership Development (WELD) program, March 7-9, 2001 and June 17-21, 2002
- Team logic, using the logic model for evaluation and planning, Boise Idaho, May 1-3, 2001
- involved in organization of faculty retreat, horticulture, Sept. 21, 2001 and June 6, 2002

## **E. AWARDS**

### 1. National and International Awards

Fellow of the International Society for Horticultural Science, 2021

Duke Galletta Award for excellence in horticultural research, North American Blueberry Council, 2021

Outstanding Fruit Publication Award for a paper in ASHS journals in 2019. Awarded 2020

Distinguished service award, North American Raspberry and Blackberry Growers' Assoc., 2018

ASHS Outstanding Graduate Educator Award, 2015

ASHS Outstanding Extension Publication Award for paper published in 2012

Elected Fellow of the American Society for Horticultural Science, 2007

Honored as one of three "outstanding leaders in blueberry sciences" by Dr. Norm Childers In:  
The Blueberries – For Growers, Gardeners, and Promoters. N. F. Childers and P.M. Lyrene  
(Eds.), N.F. Childers Horticultural Publications, Gainesville, FL, 2005 pg. x

First place award for poster presented at the N.A. Strawberry Conference, 1990 (Zhang, Strik, and Martin)

Ulysses P. Hedrick Award for "The Importance of Growth During Flower Bud Differentiation to Maximizing Yield in Strawberry Genotypes", 1987-88

Ulysses P. Hedrick Award (presented by the American Pomological Society for an outstanding paper in the Fruit Varieties Journal) for "Flower Bud Differentiation in Strawberry Cultivars", 1984-85

Natural Sciences and Engineering Research Council of Canada, Postgraduate Scholarship 1983-87

### 2. University and Community Awards

2014 OSU Alumni Association Distinguished Professor Award

2013 James and Mildred Oldfield/E.R. Jackman Team Award, (Team Drosophila), CAS, 2013

ARF Distinguished Professor, CAS, 2012

OSU Extended Education Faculty Achievement Award, 2008

Excellence in Extension Education, College of Ag. Sciences, Oregon State University, 2005

Alberta B. Johnston Award for Excellence in Extension Education, 2002

Briskey Award for Faculty Excellence, College of Agricultural Sciences, 1996  
OSUEA Newer Faculty Recognition Award, 1991  
OSU Search for Excellence Award for Outstanding Performance -- for efforts of the interdisciplinary team studying Low Input Sustainable Agriculture, 1990  
Ph.D. Degree "With Distinction", 1987  
Taffy Davidson Memorial Fellowship 1986-87  
Soden Memorial Fellowship in Agriculture 1984-87  
Major General LaFleche Fellowship 1983-84

3. Local Industry Awards

“Lifetime Achievement Award – Recognizing the Oregon Blueberry Industry’s Friend”,  
presented at the Oregon Blueberry Conference, Feb. 2022  
“Bob Conroy Award for Service to the Oregon Berry Industry”, presented by the Oregon  
Raspberry and Blackberry Commission, November, 2021  
“Outstanding Leader in the Blueberry Industry” Award presented by the Oregon Blueberry  
Growers’ Association, 2003