Curriculum Vitae for B**ernadine C. Strik**

EARNED DEGREES:

Ph.D.	Horticulture (distinction)	University of Guelph, Ont., Canada	1987
B.S.	Botany (honors)	University of Victoria, B.C., Canada	1983

PROFESSIONAL EMPLOYMENT HISTORY:

Professor, Department of Horticulture, Oregon State University, 1997-present
Associate Professor, Department of Horticulture, Oregon State University, 1992-1997
Assistant Professor, Department of Horticulture, Oregon State University, 1987-1992
Sessional Lecturer, Department of Horticultural Science, University of Guelph, 1985

POSITION RESPONSIBILITIES:

Present FTE distribution: 55% Extension: 35% Research: 10% Teaching
1) conduct statewide and regional Extension programs on commercial production of berry crops; 2) serve as the Berry Crops Research Leader at the North Willamette Research and Extension Center; 3) conduct research on the production and physiology of berry crops and serve as the OSU liaison on the berry crop breeding program (ARS-OSU); and 4) teach two courses in the Department of Horticulture, OSU and advise graduate and undergraduate students.

MAJOR RESEARCH INTERESTS:

Research and develop sustainable production practices for consistently high productivity and quality of berry crops. Research interests include increasing machine harvest efficiency, whole plant physiology, alternative practices to improve production/quality, plant nutrition, off-season, fresh market production systems, and organic production of berry crops.

PROFESSIONAL ACCOMPLISHMENTS:

I have authored or co-authored 103 refereed papers, 58 Extension publications, 5 Agricultural Experiment Station publications, 2 Extension publications co-authored in other countries, 2 e-Organic publications, 3 e-Organic webinars, 10 book chapters, 1 educational DVD, 82 newsletter articles and 235 other articles. I have also presented 357 talks at professional and industry meetings, have presented 65 posters, and have organized 83 workshops/field days.

GRANTS RECEIVED (2010 – present)

Strik, B., D. Bryla, Y. Zhao, M. Daeschel, P. Perkins-Veazie, T. Phister, R. ReJesus, C. Safley, G. Fernandez, Organic Blackberry Production Systems for Improved Yield, Fruit Quality, and Food Safety in Fresh and Processed Markets, NIFA- OREI-IOP, 2010-15, $2,428,677 ($983,000 my share)

Walton, V., Strik, B. and 15 other co-PIs. Biology and management of Spotted Wing Drosophila on Stone and Small Fruits, SCRI, 2010-15, $5,758,980 ($215,767 my share)

Strik, B., D. Bryla, D. Sullivan, and C. Seavert. Integrating weed management and fertility in organic highbush blueberry production systems to optimize plant growth, yield, and grower return. NIFA – OREI- IOP, 2008-2011, $469,851

Strik, B. and Fernandez-Salvador. Organic blueberry survey. Clackamas Innovative Funds, 2015 $5000

Strik, B. Developing nutrient programs for organic blueberry, Northwest Center for Small Fruits Research (NCSFR), 2014-16, $69,250

Strik, B. Organic blueberry production systems, NCSFR, 2006-2012, $212,673; Washington Blueberry Commission (WABC), 2008-2014, $37,243; Oregon Blueberry Commission (OBC), 2006-09, 2013-15, $84,797

Strik, B. Tissue nutrient concentration as affected by sampling time and blueberry cultivar. WABC, 2013-15, $18,595; ARF, $11,580

Strik, B. Targeted fruit applications of calcium for fruit quality. 2015-16. ORBC $12170; OR Strawberry Comm. $9,170; OBC $1,170; WABC $11,000; ARF $11,670

Strik, B. Tissue nutrient concentration as affected by sampling time and blackberry cultivar. OR Raspberry & Blackberry Comm. (ORBC), 2013-14, $8,326

Strik, B and Valenzuela, L. Root distribution in blackberry. ORBC, 2015-16 $6,585

Strik, B. and Fernandez-Salvador. Physiology of blueberry. OBC 2015-16 $11,900

Strik, B. Sawdust & N fertilization in blueberry. OBC, 2010-12, $14,250; NCSFR 2012-14, $68,400

Strik, B and D. Bryla. Organic blackberry production systems, NCSFR, 2009-12, $106,333

Strik, B. and C. Finn. Fruit set in blueberry, OBC, 2009-13, $31,570

Strik, B. and J. Lambrinos. Carbon sequestration in mature blueberry. ARF, 2010-12, $12,384

Strik, B. and C. Finn, ARS-USDA-OSU Cooperative Breeding pgm, NCSFR, 2007-16, $381,941

Strik, B. and C. Finn. Strawberry Breeding Program, OR Strawberry Comm., 2007-15, $93,090

Strik, B. and C. Finn, Caneberry Breeding Program, ORBC, 2007-15, $123,850

Strik, B. and C. Finn, Blueberry Cultivar Evaluation Trial, OBC, 2007-15, $121,200

Strik, B. Machine harvester for berries at NWREC, 2007-15, donated, in-kind value: $273,000

HONORS AND AWARDS

National and International Awards

- Amer. Soc. Hort. Sci. Graduate Educator Award, 2015
- OSU Alumni Assoc. Distinguished Professor Award, 2014
- Agricultural Research Foundation, Distinguished Professor Award, CAS, OSU, 2012
- OSU Extended Education Faculty Achievement Award, 2008
- Elected Fellow of the American Society for Horticultural Science, 2007

University and Community Awards

- 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

Industry Awards

- "Outstanding Leader in the Blueberry Industry" Award presented by the Oregon Blueberry Growers' Association, 2003

REFEREED PUBLICATIONS (Last 4 years):

Strik, B.C. 2015. A review of optimal systems for organic production of blueberry and blackberry for fresh and processed markets in the northwestern United States. Scientia Hort. (accepted) – **invited paper**

Strik, B.C. and A.J. Vance. 2015. Seasonal variation in leaf nutrient concentration of northern highbush blueberry cultivars grown in conventional and organic production systems. HortScience 50:1453-1466.

Lee, J.C., D.T. Dalton, K. Swoboda-Bhattarai, D.J. Bruck, H.J. Burrack, B.C. Strik, J.M. Woltz, and V.M. Walton. 2015. Characterization and manipulation of fruit susceptibility to

Dixon, E.K., B.C. Strik, L.R. Valenzuela-Estrada, and D.R. Bryla. 2015. Weed management, training, and irrigation practices for organic production of trailing blackberry: I. Mature plant growth and fruit production. HortScience 50:1165-1177.

Strik, B.C. and D.R. Bryla. 2015. Uptake and partitioning of nutrients in blackberry and raspberry and evaluating plant nutrient status for accurate assessment of fertilizer requirements. HortTechnology25:452-459.

Bryla, D.R. and B.C. Strik. 2015. Nutrient requirements, leaf tissue standards, and new options for fertigation of northern highbush blueberry. HortTechnology 25:464-470.

Vargas, O.L, D.R. Bryla, J.E. Weiland, B.C. Strik, and L. Sun. 2015. Irrigation and fertigation with drip and alternative micro irrigation systems in northern highbush blueberry. HortScience 50:897-903.

Strik, B.C. 2015. Seasonal variation in mineral nutrient content of primocane-fruiting blackberry leaves. HortScience 50:540-545.

Fernandez-Salvador, J., B.C. Strik, and D.R. Bryla. 2015. Response of blackberry cultivars to fertilizer source during establishment in an organic fresh market production system. HortTechnology 25:277-292.

Fernandez-Salvador, J., B.C. Strik, Y. Zhao, and C.E. Finn. 2015. Trailing blackberry genotypes differ in yield and post-harvest fruit quality during establishment in an organic production system. HortScience 50:240-246.

Fernandez-Salvador, J., B.C. Strik, and D.R. Bryla. 2015. Liquid corn and fish fertilizers are good options for fertigation in blackberry cultivars grown in an organic production system. HortScience 50:225-233.

Cavender, G., M. Liu, D. Hobbs, B. Frei, B. Strik and Y. Zhao. 2014. Effects of Different Organic Weed Management Strategies on the Physicochemical, Sensory, and Antioxidant Properties of Machine-Harvested Blackberry Fruits. J. Food Sci. 79:S2107–S2116

Finn, C.E., B.C. Strik, B. M. Yorgey, T.A. Mackey, P.P. Moore, M. Dossett, C. Kempler, R.R. Martin, A.R. Jamieson, and G.J. Galletta. 2014 ’Sweet Sunrise’ strawberry. HortScience. 49:1088-1092.

Finn, C.E., B.C. Strik, B. M. Yorgey, M.E. Peterson, J. Lee, R.R. Martin, and H.K. Hall. 2014. ’Columbia Star’ thornless trailing blackberry. HortScience. 49:1108-1112.

Strik, B.C., G. Buller, and J.M. Tarara. 2014. Grow tubes reduce root and crown growth but not early production during establishment of highbush blueberry. HortScience 49:581-588.

Tarara, J.M., B. Chaves, and B.C. Strik. 2014. Grow tubes change microclimate and bush architecture but have little effect on bush biomass allocation at the end of the establishment year in blueberry. HortScience 49:596-602.

Harkins, R.H., B.C. Strik, and D.R. Bryla. 2014. Weed management practices for organic production of trailing blackberry: II. Accumulation and loss of biomass and nutrients. HortScience 49:35-43.

Larco, H., B.C. Strik, D.R. Bryla, and D.M. Sullivan. 2013. Mulch and fertilizer management practices for organic production of highbush blueberry: II. Impact on plant and soil nutrients during establishment. HortScience 48:1484-1495.

Tarara, J.M., B. Chaves, and B.C. Strik. 2013. Above- and below-ground microclimate of grow tubes in an organic mulch-incorporated, raised bed system for blueberry. HortScience 48:1363-1369.

Larco, H., B.C. Strik, D.R. Bryla, and D.M. Sullivan. 2013. Mulch and fertilizer management practices for organic production of highbush blueberry: I. Plant growth and allocation of biomass during establishment. HortScience 48:1250-1261.

Finn, C.E., P.P. Moore, B.M. Yorgey, J. Lee, B.C. Strik, C. Kempler, and R.R. Martin. 2013. 'Charm' strawberry. HortScience 48:1184-1188.

Finn, C.E., B.C. Strik, B.M. Yorgey, and R.R. Martin. 2013. 'Vintage' red raspberry. HortScience 48:1181-1183.

Harkins, R.H., B.C. Strik, and D.R. Bryla. 2013. Weed management practices for organic production of trailing blackberry: I. Plant growth and early fruit production. HortScience 48:1139-1144.

Julian, J.W., B.C. Strik, H.O. Larco, D.R. Bryla, and D.M. Sullivan. 2012. Costs of establishing organic northern highbush blueberry: Impacts of planting method, fertilization, and mulch type. HortScience 47:1-8.

Strik, B.C. and G. Buller. 2012. The impact of severity and time of tipping and hedging on performance of primocane-fruiting blackberry in a tunnel. HortTechnology 22:325-329.

Bryla, D.R., Strik, B.C., Bañados, M.P., and T.L. Righetti. 2012. Response of highbush blueberry to nitrogen fertilizer during field establishment. Response of Highbush Blueberry to Nitrogen Fertilizer during Field Establishment—II. Plant Nutrient Requirements in Relation to Nitrogen Fertilizer Supply. HortScience 47:917-926.

Bañados, M.P., B.C. Strik, D.R. Bryla, and T.L. Righetti. 2012. Response of highbush blueberry to nitrogen fertilizer during field establishment. I. Accumulation and allocation of fertilizer nitrogen and biomass. HortScience 47:648-655.

Strik, B.C., J.R. Clark, C.E. Finn, and G. Buller. 2012. Management of Primocane-fruiting Blackberry – Impacts on Yield, Fruiting Season, and Cane Architecture. HortScience 47:593-598.

Righetti, T., D. Dalthorp, J.G. Lambrinos, B. Strik, D. Sandrock, C, Phillips. 2012. Scaling confounds the interpretation of isotopic data. Inter. J. Analytical Chemistry. 92:1, 1-27

Finn, C.E., C. Kempler, P.P. Moore, B.C. Strik, B.M. Yorgey, and R.R. Martin. 2011. 'Sweet Bliss' strawberry. HortScience 46:1701-1705.

PEER-REVIEWED (Last 4 years):

Strik, B.C., and A. Vance. 2015. Leaf nutrient concentration in blackberry – recommended standards and sampling time should differ among blackberry types. Acta Hort. (in press).

Dixon, E.K. and B.C. Strik. 2015. Weed control increases growth, cumulative yield, and economic returns of machine-harvested organic trailing blackberry. Acta Hort. (in press).

Finn, C.E., R.R. Martin, T. Baumann, B.C. Strik, C. Kempler, and M. Dossett. 2015. A Dedication: Hugh A. Daubeny (1931-2015): A wonderful small fruit legacy including being a critical driver of the Rubus-Ribes Symposia. Acta Hort. (in press).

Strik, B.C., A. Vance, and D. Bryla. 2015. Organic production systems research in blueberry and blackberry – A review of industry-driven studies. Acta Hort. (in press).

Sullivan, D.M., B.C. Strik, and D. Bryla. 2015. Evaluation of alternative mulches for blueberry over five production seasons. Acta Hort. 1076:171-178.

Strik, B.C. 2014. Organic blueberry production systems – advances in research and industry. Acta Hort. 1017:257-267 **invited**

Strik, B.C. and G. Buller. 2014. 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'. Acta Hort. 1017:269-275.

Larco, H., D.M. Sullivan, B. Strik, and D. Bryla. 2014. Mulch effects on highbush blueberry under organic management. Acta Hort. 1018:375-382.

Strik, B.C. and C.E. Finn. 2012. Blackberry production systems – a worldwide perspective. Acta Hort. 946:341-347. **invited**

Clark, J.R., B. Strik, E. Thompson, and C.E. Finn. 2012. Progress and challenges in primocane-fruiting blackberry breeding and cultural management. Acta Hort. 926:387-392.

Strik, B.C., D. Bryla, H. Larco, and J. Julian. 2012. Organic Highbush Blueberry Production Systems Research – Management of Plant Nutrition, Irrigation Requirements, Weeds, and Economic Sustainability. Acta Hort. 933:215-220

Strik, B.C. 2012. Flowering and fruiting on command in berry crops. Acta Hort. 926:197-214. **invited**

EXTENSION (relevant to proposal)

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

Finn, C.E., B.C. Strik, 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, P. Moore. 2014. Strawberry Cultivars for Western Ore. & Wash. 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, Ore.AEB 0023

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

E-Organic (relevant to proposal)

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/organic-blackberry-production:-tips-learned-from-an-ongoing-research-study#.UydTFbHn-70

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. Webinar avail. at (http://www.extension.org/article/26115).

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