

Books and Book Chapters

Chavez, D.J. and J.X. Chaparro. 2020. The North American Plums (*Prunus* Spp.) –A Review of the Taxonomic and Phylogenetic Relationships. In: IntechOpen, DOI: 10.5772/intechopen.91638

Long, L.E., G.A. Lang, and C. Kaiser. 2020. Sweet cherries. CAB International, Wallingford, U.K., 384 pp. ISBN: in press.

Refereed Journal Articles

G.L. Reighard, W. Bridges, Jr., D. Archbold, A. Atucha, W. Autio, T. Beckman, B. Black, D.J. Chavez, E. Coneva, K. Day, P. Francescato, M. Kushad, R.S. Johnson, T. Lindstrom, J. Lordan, I.S. Minas, D. Ouellette, M. Parker, R. Pokharel, T. Robinson, J. Schupp, M. Warmund, and D. Wolfe. 2020. Nine-Year Rootstock Performance of the NC-140 'Redhaven' Peach Trial across 13 States. *J. of the American Pomological Society* 74(1): 45-56.

http://www.pubhort.org/aps/74/v74_n1_a4.htm

Minas IS and Sterle, D. 2020. Differential thermal analysis sheds light on the effect of environment and cultivar in peach floral bud cold hardiness. *Acta Horticulturae* 1281:385-392.

https://www.actahort.org/books/1281/1281_51.htm Minas IS,

Black BL, Minas IS, ReighardGL, and Beddes T. 2020. Alkaline soil tolerance of rootstocks included in the NC-140 'Redhaven' peach trial. *Journal of the American Pomological Society*. in press (accepted).

Autio W, Robinson T, Blatt S, Cochran D, Francescato P, Hoover E, Kushad M, Lang G, Lordan J, Miller D, Minas IS, Parra Quezada R, and Stasiak M, Xu H. 2020. Budagovsky, Geneva, Pillnitz, and Malling apple rootstocks affect 'Honeycrisp' performance over eight years in the 2010 NC-140 'Honeycrisp' apple rootstock trial. *Journal of the American Pomological Society*. 74:182-195.

Autio, W, T. Robinson, B. Black, R Crassweller, E Fallahi, S. Hoying, M Parker, R Parra Quezada, G Reig, and D. Wolfe. 2020. Budagovsky, Geneva, Pillnitz, and Malling apple rootstocks affect 'Fuji' performance over eight years in the 2010 NC-140 "Fuji" Apple Rootstock Trial. *J. Amer. Pomol. Soc.* 74(4):196-209.

Mahdavi, S., E. Fallahi, & B. Fallahi. 2020. Induction of Branches on Un-feathered Nursery Trees of 'Aztec Fuji' Apples by Bio-stimulants and Cambium Manipulations and Growth Regulator Application. *American Journal of Plant Science*. 1: 496-509. <https://doi.org/10.4236/ajps.2020.1130352.2>.

Fallahi, E., Fallahi, B., Mahdavi, S. & M., Kiester. 2020. Branch Configuration Impacts on Production, Quality, and Leaf Minerals of 'Aztec Fuji' Apple Trees in a Single Upright High-Density System in Five Year. *Journal of Agricultural Science (Canada)*. 12(4):53-63. <https://doi.org/10.5539/jas.v12n4p533>

Elsysy, M. and T.C. Einhorn. 2020. Air root pruning containers alter root architecture and increase canopy and root growth of apple trees compared to field grown liners. *Acta Hort.* 1281:251-256

Mahdavi, S., E. Fallahi, G.A. Lang, and B. Fallahi. 2020. Gibberellic acid⁴⁺⁷ and benzyladenine, cambium disconnection, nitrogen, and tip removal influence on branch induction in newly planted poorly feathered 'Fuji' apple trees. *Amer. J. Plant Sci.* 11(3):496-509. DOI:10.4236/ajps.2020.113035

Einhorn, T. 2020. Recent research of cold hardy quince and Amelanchier hybrid rootstocks to confer dwarfing, precocity, and high productivity to pear scions. *Acta Hort.* in press.

Forge, T., Neilsen, D., Neilsen, G., and Blatt, S. 2019. Dynamics of the Impacts of *Pratylenchus penetrans* on Gisela® Cherry Rootstocks. *Journal of Nematology* 51: 1-10.

- Fazio, G., S. Adams, J. Lordan, N. Roberts, T.L. Robinson, B. Black. 2020. Rootstock, scion, and graft type influence graft union flexural strength of apple trees. *Journal of the American Pomological Society* 74(1): 24-44.
- Lordan, J., T.L. Robinson, P. Francescatto, P. Herzeelle, and G. Fazio. 2020. Effects of apple rootstocks on nutrient concentration in 'Honeycrisp' scions. *Acta Hort.* 1281: 97-104.
- Reig, G., J. Lordan, S.A. Hoying, M. Fargione, D. Donahue, P. Francescatto, D. Acimovic, G. Fazio and T.L. Robinson. 2020. Long-term Performance of 'Delicious' Apple Trees Grafted on Geneva Rootstocks and Trained to Four High-density Systems under New York State Climatic Conditions *HortScience*. doi.org/10.21273/HORTSCI14904-20
- Crassweller, R., L. Kime, D. Smith. 2020. Orchard architecture effects on yield & economics of two apple cultivars. *Acta Horticulturae* 1281:207 -211.
- Marini, R.2020. Effects of Growing Location on Fruit Tree Root suckers. *J Am Pom. Soc.* 74:210-218.
- Marini, R. 2020. Rootstock x Site Interaction & Stability Analysis of Apple Rootstocks Across Sites in Two NC-140 Multilocation Apple Rootstock Trials. *J. Am. Pom. Soc.* 74:220-230.
- Marini, R. 2020. Graphical Analysis of Rootstock x Site Interaction for Two NC-140 Multi-Location Apple Rootstock Trials using GGEbiplot. *J. Am. Pom. Soc.* 74:231-243.
- Frankel, C. and G.L. Reighard. 2020. Oxygen and ethylene-induce germination in dormant peach seeds. *European Journal of Horticulture* 85(3):176-181.
- Devkota, P., A. Iezzoni, K. Gasic, G. Reighard and R. Hammerschmidt. 2020. Evaluation of the susceptibility of *Prunus* rootstock genotypes to *Armillaria* and *Desarmillaria* species. *European J. Plant Pathology* <https://doi.org/10.1007/s10658-020-02065-y> 19 p.
- Miller, S.B., K. Gasic, G.L. Reighard, W.G. Henderson, P.A. Rollins, M. Vassalos and G. Schnabel. 2020. Preventative root-collar excavation reduces peach tree mortality caused by *Armillaria* root rot on replant sites. *Plant Disease* 104:1274-1279.
- Reighard, G.L. 2020. Strategies for producing temperate tree fruit under increasing winter temperatures. *Acta Hort.* 1281: 449-454.
- Sherif, S., K.S. Yoder and G.M. Peck. (2020) Effects of dwarfing and semi-dwarfing apple rootstocks on the growth and yield of Gala, Fuji and York apples. *Acta Horticulturae*. 1281, 113-120. DOI:10.17660/ActaHortic.2020.1281.17.
- Anthony B.M., Serra S., Musacchi S.* (2020). "Optimization of Light Interception, Leaf Area and Yield in 'WA 38': Comparisons among Training Systems, Rootstocks and Pruning Techniques". *Agronomy*, 10(5), p.689.
- Valverdi N, Kalcsits L. 2020. Rootstock Affects Plant Nutrition and Fruit Quality During Orchard Establishment of 'Honeycrisp' Apple. *HortScience*. Pending Revisions.
- Valverdi N, Kalcsits L. 2020. Differential leaf-level physiological responses to water limitations in apple induced by rootstock genotype under field and controlled environment conditions. *Acta Physiologiae Plantarum*. Pending Revisions.
- Valverdi N., Cheng L, Kalcsits L. 2019. Apple scion and rootstock contribute to nutrient uptake and partitioning under different belowground environments. *Agronomy* 9(8): 415. <https://doi.org/10.3390/agronomy9080415>.
- Kalcsits L, Valverdi N, Reid M. 2020. Timing of water limitations affects source to sink differences in $\delta^{13}\text{C}$ composition in apple. *Acta Horticulturae*. International Society for Horticultural Sciences Symposium on Irrigation in Horticultural Crops; Matera, Italy; In Press.

Guzman, D. & Dhingra, A. (2019) Challenges and Opportunities in Pear Breeding. In Achieving sustainable cultivation of temperate zone tree fruits and berries, Vol. 2(Ed G. Lang). Cambridge, UK: Burleigh Dodd Science Publishing Limited.

Montanari, S., Bianco, L., Allen, B., Martínez-García, P., Bassil, H., Postman, J., Knäbel, M., Kitson, B., Deng, C., Chagné, D., Crepeau, M., Langley, C., Evans, K., Dhingra, A., Troggio, M., and Neale, B. (2019) Development of a highly efficient Axiom™ 70 K SNP array for *Pyrus* and evaluation for high-density mapping and germplasm characterization. BMC Genomics. doi: 10.1186/s12864-019-5712-3.

Maldonado, J., Dhingra, A., Carrasco, B., Meisel, L., Silva, H. (2019) Transcriptome datasets from leaves and fruits of the sweet cherry cultivars ‘Bing’, ‘Lapins’ and ‘Rainier’. Elsevier Data in Brief Volume 23. doi: 10.1016/j.dib.2019.01.044.

Alioto, T., Alexiou, K., Bardil, A., Barteri, F., Castanera, R., Cruz, F., Dhingra, A., Duval, H., Fernandez i Martí, A., Frias, L., Galán, B., Garcia, J., Howad, W., Gómez-Garrido, J., Gut, M., Julca, I., Morata, J., Puigdomènech, P., Ribeca, P., Rubio Cabetas, M., Vlasova, A., Wirthensohn, M., Garcia-Mas, J., Gabaldón, T., Casacuberta, J., Arús, P. (2019) Transposons played a major role in the diversification between the closely related almond and peach genomes: Results from the almond genome sequence. The Plant Journal. doi:10.1111/tpj.14538.

Kaiser N, Douches D, Dhingra A, Glenn KC, Herzig PR, Stowe EC, Swarup S (2020) The role of conventional plant breeding in ensuring safe levels of naturally occurring toxins in food crops. Trends in Food Science & Technology 100:51-66. doi:https://doi.org/10.1016/j.tifs.2020.03.042

Thesis

Johnson, Sam. 2020 Opportunities for Optimal Apple Management in Arid Conditions. M.S. Thesis. <https://digitalcommons.usu.edu/>

Poster Presentations

Dylan Teel, Elina Coneva, Floyd Woods, Nylan Holmes and Matthew Price. 2020. Rootstock Effects on Fruit Quality of “Aztec Fuji” Apple. Southern Region Fruit and Vegetable Growers Conference, Savannah, GA, Jan. 10-13, 2020.

Published Abstracts

Technical Reports/Commercial Industry Reports

Elkins, R and C. Shaffer, B. Lampinen. 2020. High density orchard systems for European pear: 2013 NC-140 Regional Rootstock Project (2019 progress report)!. Overall training systems, spacing, and rootstocks. 2019 Pear Research Reports, California Pear Advisory Board, Sacramento, California. <http://calpear.com>. 35pgs.

Elkins, R. 2020. Comparison of Horner 4, OHxF 87 and OH.F 97 rootstocks under varying growing conditions and cultural practices in Lake County, California. 2019 Pear Research Reports, California Pear Advisory Board, Sacramento, California. <http://calpear.com>. 12 pgs.

Lang, G.A.2020. Mechanization making way to a cherry orchard near you. American Fruit Grower 140(6): <https://www.growingproduce.com/fruits/mechanization-making-way-to-a-cherry-orchard-near-you/>

Lang, G.A.2020. Improve cherry production with plant growth regulators. American Fruit Grower 140(4):16-17. <https://www.growingproduce.com/fruits/improve-cherry-production-with-plant-growth-regulators/>

Agnello, A.M., B. Brown, J. Carroll, L. Cheng, K. Cox, P.D. Curtis, A. Dunn, M. Helms and T. Robinson. 2020. Pest management guidelines for commercial tree-fruit production 2020, p. 306. Cornell University, Ithaca, NY, USA.

Crassweller, R., K. Peter, G. Krawczyk, J. Schupp, T. Ford, M. Brittingham, J. Johnson, L. LaBorde, J. Harper, K., Kephart, R. Pifer, K. Kelley, L. He, P. Heinemann, D. Biddinger, M. Lopez-Urbe, R. Marini, T. Baugher, D. Weber, L.

Kime, E. Crow, E. Weaver, B. Lehman. 2020. 2020-21 Penn State Tree Fruit Production Guide. The Pennsylvania State University. Produced by Ag Communications & Marketing. AGRS-045. 446 pages. (Awarded Outstanding Book by Extension Division of the American Society for Horticultural Science)

Teh SL, Evans K, Dhingra A (2020) WSU pear rootstock breeding – continuing report. PNW pear review, Yakima, WA. February 20, 2020.

Dhingra A, Evans K (2020) Evaluating dwarfing capacity of 65 diverse pear germplasm accessions – continuing report. PNW pear review, Yakima, WA. February 20, 2020.

Extension Fact Sheet Publications

Wolfe, D., D. Archbold, D. Becker, J. Johnston, and G. Travis. 2020. Rootstock Effects on Apple and Peach Tree Growth and Yield. Fruit and Vegetable 2019 Annual Research Report. University of Kentucky College of Agriculture, Food and Environment, Agricultural Experiment Station publication PR-739:14-16.
<http://www2.ca.uky.edu/agcomm/pubs/PR/PR762/PR762.pdf>

Walgenbach, J. (editor). 2020 Integrated orchard management guide for commercial apples in the Southeast. NC Cooperative Extension Service, Raleigh. AG-572. 100pp.

Black, B., T. Maughan, T. Beddes, G. Reighard. 2020. Selecting Rootstocks for Utah Peach Orchards. USU Extension Fact Sheet. Horticulture/Fruit/2020-02pr.

Johnson, S.L., T.R. Roper, and X. Dai. 2020. Controlling Suckers Around Fruit Trees. USU Extension Fact Sheet

Popular Articles

Chavez, D.J. VSC News. Interview with Ashley Robinson. “Determining the ideal irrigation for peaches”. Published on February 12, 2020.

Clements, J. 2020. 2015 Modi Organic NC-140 Apple Rootstock Trial and Drapenet Demonstration.
<https://jmcextman.blogspot.com/2020/04/2015-modi-organic-nc-140-apple.html>.

Clements, J., E. Garofalo, and W. Autio. 2020. 2015 Modi Organic NC-140 Apple Rootstock Trial and Drapenet Demonstration. Fruit Notes 85(3):8-10. Horticultural News 100(3):8-10.

Warmund, M. What’s new in apples? <https://ipm.missouri.edu/MEG/2020/9/apples-MW/> Sept. 2020.

Muehlbauer, M, Magron, R., Cowgill, W. NC-140 Fuji and Honeycrisp Apple Rootstock Trials in New Jersey. Horticultural News. Vol. 100.2

Robinson, T, J. Lordan, P. Francescatto, K. Iungerman and A. Wallis. 2020. Long-term Performance of High-Density Training Systems with ‘McIntosh’ and ‘Honeycrisp’ in a Northern Cold Climate. Fruit Quarterly 28:(3):28-35.

Tee, L., M. Miranda Sazo, and T. Robinson. 2020. Pruning Video Recording Now Available. *Lake Ontario Fruit Newsletter* 2020(6):5-6.

Robinson, T., L. Cheng, and M. Miranda Sazo. 2020. Management, Fertilization and Irrigation for the Two Year “Grow-through” Nursery Tree Strategy. *Lake Ontario Fruit Newsletter* 2020(6):3-7.

Robinson, T.L. and M. Miranda Sazo. 2020. Now is the Time to Start Promoting the Formation of Honeycrisp Flower Buds for Next Year. *Lake Ontario Fruit Newsletter* 2020(10):3-5.

Miranda Sazo, M., L. Cheng, T. Robinson, M. Rutzke, and C. Kahlke. 2020 Peel SAP Analysis for Early Prediction of Bitter Pit in 'Honeycrisp'. *Lake Ontario Fruit Newsletter* 2020(11):5-7.

Robinson, T.L. and M. Miranda Sazo. 2020 Managing Irrigation in 2020. *Lake Ontario Fruit Newsletter* 2020(11):1-4.

Lakso, A.N., T.L. Robinson and M. Miranda Sazo. 2020. A 'Sunnier', Warm, and Dry Season in WNY: Practical Implications of Early- and Mid-Summer Water Stress on Tree Growth, Cropping, and Physiology. *Lake Ontario Fruit Newsletter* 2020(12):5-9.

Crassweller, R., J. Schupp and R. Marini. 2020. <https://extension.psu.edu/what-do-we-know-about-the-geneva-rootstocks-so-far>

Crassweller, R., D. Smith. 2020. Third generation apple system trials. *PA Fruit News* 100(1):36-37.

Crassweller, R., D. Smith 2020. Conversion of training systems to a hedgerow. *PA Fruit News* 100(1):37-38.

Crassweller, R., D. Smith. 2020. 2019 Apple rootstock trials at Rock Springs. *PA Fruit News* 100(1):47-49.

Schupp, J., H. Winzeler, M. Schupp. 2020. Effect of rootstock and in-row tree spacing on performance of Coralstar peach trees. *PA. Fruit News*. 100(1):49-50.

He, L., J. Schupp, D. Choi and D. Weber. 2020. Branch and fruit accessibility for mechanical operations with various tree canopies (Year 1 report). *PA Fruit News* 100(1):22-24

Schupp, J., H. E. Winzeler and M. Schupp. 2020. Development of a High Density, Highly Mechanized, Pedestrian Peach System. *PA Fruit News* 100 (1): 43-44

Schupp, J., H. E. Winzeler and M. Schupp. 2020. Effect of Rootstock and In-Row Tree Spacing on Performance of Coralstar Peach Trees. *PA Fruit News* 100 (1):49-50.

Seifrit, D., D. Weber and J. Schupp. 2020. High density pear tours. *PA Fruit News* 100 (2):28.

S. Sherif and K. Yoder. 2018. Support for 2019; New Rootstocks, Cultivars, and Training Systems for Virginia. *Virginia Fruit*. 4pp. (May 2020)

Scientific Oral Presentations

Coneva, E. 2020. Size-Controlling and Disease Resistant Peach Rootstocks for Sustainable Peach Production in Alabama. National Association of County Agricultural Agents Annual Conference, Virginia Beach, VA (online).

Elina D. Coneva. 2020. Assessment of Size Controlling Peach Rootstocks for High Density Orchards in Alabama. SR ASHS Annual Meeting. Louisville, KY, February 5.

Dylan G. Teel, Elina D. Coneva, and Matthew D. Price. 2020. Effect of Rootstock Cultivar on Consumer Quality Attributes of 'Aztec Fuji' Apple. SR ASHS Annual Meeting. Louisville, KY, February 5.

Thapa Magar, S., B. Casamali, and D.J. Chavez. 2020. Soil, leaf, and fruit nutritional status of a young peach orchard under different irrigation and fertilization practices in Georgia. Amer. Soc. Hort. Sci. Annual Meeting.

Casamali, B., M.W. van Iersel, and D.J. Chavez. 2020. Update on UGA research for irrigation and fertilization practices for young peach trees in the Southeastern United States. Southern Region Amer. Soc. Hort. Sci. Annual Meeting.

Crassweller, R., D. Smith. 2020. Trees/ha or Leaders/ha: Which is More Important? 95th Proc. Cumberland Shenandoah Fruit Workers Conference. 41-42.

Schupp, J., M. Schupp and H. E. Winzeler. 2019. Effects of Rootstock and In-row Tree Spacing on Mineral Nutrition and Productivity of Peach Trees in Pennsylvania. Proc. Cumberland Shenandoah Fruit Workers Conference 95:46-50

Gasic, K., S. Miller, G. Barac, C. Saski, G. Schnabel and G. Reighard. Breeding for *Prunus* rootstock tolerance to replant diseases. 2020. SR-ASHS Annual Meeting. Louisville, KY. Jan. 31-Feb. 2, 2020.

Gasic, K., S. Miller, C. Saski, G.L. Reighard, and J. Adelberg. 2020. Solutions to Armillaria root rot in Prunus: What we know and where do we go from here. Southeast Regional Fruit & Vegetable Conference. Savannah, GA. Jan. 11, 2020.

Reighard, G.L. 2020. Identification of root-knot nematode *Meloidogyne floridensis* in South Carolina: What to expect. Southeast Regional Fruit & Vegetable Conference. Savannah, GA. Jan. 10, 2020.

Reighard, G.L. 2020. Prosper Berckmans & Sons legacy to southeastern peaches and the Masters Golf Course. American Society of Hort. Sci. Annual Meeting. August 10-13, 2020. Virtual. August 13, 2020.

Reighard, G.L. 2020. Management considerations when growing almonds and peaches under increasing warmer winters in mild temperate climates. American Society of Hort. Sci. Annual Meeting. August 10-13, 2020. Virtual. August 12, 2020.

Serra S. and Musacchi S.: "Precision crop load management: Honeycrisp in combination with several rootstocks in Washington State" (Poster presented by Serra S. at the ASHS annual virtual meeting, Orlando, August 2020).

York Z, Teh SL, Evans K (2020) Phenotypic and genetic characterization of dwarfing-related traits in bi-parental pear rootstock populations. National Association of Plant Breeders 2020 Annual Meeting. August 18, 2020 (poster – virtual).

Outreach Oral Presentations

Coneva, E. 2020. First Season Yield of 'Cresthaven' Peach on Semi-Dwarf, Pest Resistant Rootstocks. Beginning Farmer webinar series of the Commercial Horticulture Team, Alabama Cooperative Extension System, February 24, 2020.

Elina D. Coneva. 2020. Preliminary Results: Evaluation of Size-Controlling Peach Rootstocks for High Density Orchards in Alabama. Chilton Area Peach Production Meeting, Clanton, AL, January 28.

Elkins, R. Rootstocks and orchard systems for European pears. 2020 Sacramento River District Pear Research Meeting, February 4, 2020, Walnut Grove and 2020 North Coast Pear Research Meeting, February 6, 2020, Lakeport.

Tweedy, Carolina E. Developing rooting protocol on non-P. communis pears and promising wild pear germplasm: a prerequisite study for in vitro screening Armillaria resistance. 2020 Sacramento River District Pear Research Meeting, February 4, 2020, Walnut Grove and 2020 North Coast Pear Research Meeting, February 6, 2020, Lakeport.

Minas IS. 2020. The peach industry in USA: challenges & opportunities for CO peaches, Western Colorado Horticultural Society Annual Conference, Jan 2020, Grand Junction, CO.

Minas IS. 2020. Tree pruning, training & cropping systems", Lecture within the frame of the 2nd Principles of Tree-Fruit Production: beginner growers' edition workshop (30 tree fruit growers participants), Organized under the

frame of Eastern Colorado Horticulture Society (WCHS) Annual meeting, WCRC-OM, Colorado State University, January 20, 2020, Grand Junction, CO

Minas IS. Climate & Tree Fruits-Cultivars & Rootstocks selection-Orchard establishment, Lecture within the frame of the 2nd Principles of Tree-Fruit Production: beginner growers' edition workshop (30 tree fruit growers participants), Organized under the frame of Western Colorado Horticulture Society (WCHS) Annual meeting, WCRC-OM, Colorado State University, January 20, 2020, Grand Junction, CO.

Minas IS. Pruning & training sweet cherry trees on TSA, Super Slender Axe (SSA), Kym Green Bush (KGB), Bi-axe and Bi-UFO for high density plantings", Demonstration in the field within the frame of the 1st Pruning & Training: Peaches & Cherries under different training systems workshop (30 tree fruit growers participants), Organized under the frame of Western Colorado Horticulture Society (WCHS) Annual meeting, WCRC-OM, Colorado State University, January 14, 2019, Grand Junction, CO.

Minas IS. "Pruning & training peach trees on Perpendicular-V, Bi-axe (V in the row) as well as tall spindle axe (TSA) for high density plantings", Demonstration in the field within the frame of the 1st Pruning & Training: Peaches & Cherries under different training systems workshop (30 tree fruit growers participants), Organized under the frame of Western Colorado Horticulture Society (WCHS) Annual meeting, WCRC-OM, Colorado State University, January 14, 2019, Grand Junction, CO

Fallahi, E. 2020. Rootstock performance for 'Fuji' and 'Honeycrisp' apples. ID State Hort. Soc. Summer meeting. July 10, 2020.

Fallahi, E. 2020. Apple grower tour of the research trials at Parma, ID. Sept. 4, 2020.

Clements, J. 2020. Growing Honeycrisp: the good, the bad, and the ugly? Great Plains Growers Conference, January 2020, St. Joseph, MO. 45 attendees.

Einhorn, T.C. 2020. Advances in precision orchard development for pears. International Fruit Tree Association annual conference, Grand Rapids, Michigan; Feb 10.

Einhorn, T.C. 2020. Optimizing establishment of new orchards: pros and cons of planting potted nursery trees. International Fruit Tree Association annual conference, Grand Rapids, Michigan; Feb 10.

Lang, G. 2020. Advances in precision orchard development for sweet cherries. International Fruit Tree Association annual conference, Grand Rapids, Michigan; Feb 10.

R. Beaudry, T. Einhorn, C. Hollender, A. Irish-Brown, and P. Schwallier. 2020. Daylong tours of assorted research and commercial orchards for the International Fruit Tree Association annual conference, Grand Rapids, Michigan; Feb 11 and 13-14.

Einhorn, T., Musacchi, S., Schmidt, T. 2020. New Quince Rootstocks for High-density pear plantings. Live Webinar; August 14.

Einhorn, T. 2020. Solving the High-Density Pear Puzzle –It is simple, We Have All the Pieces. Empire State Producers Expo. Syracuse, NY; January 14.

Einhorn, T. and Schwallier, P. 2020. Application of New Technologies to Midwestern and Eastern Apple Systems: Containerized Nursery Trees, PGRs, and Crop Load Management Tools. Empire State Producers Expo. Syracuse, NY; January 14.

Einhorn, T., Musacchi, S., Sera, S., and Elsysy, M. 2020. The potential use of insect exclusion/anti-hail nets to reduce or eliminate apple thinning. Syracuse, NY, January 15.

Warmund, M. 2020. Tree fruit pests that plague us. Great Plants Growers Conference. St. Joseph, MO Jan. 10, 2019.

Warmund, M. Commercial peach production. Extension webinar on July 2, 2020.

Warmund, M. Commercial apple production. Extension webinar on July 6, 2020.

Parker, M.L. January 2020. Southeastern Apple Growers Meeting, Asheville, NC. Commercial grower audience. Attendance 80.

Parker, M.L. January 2020. Sandhills Research Station Peach Demonstration, Jackson Springs, NC. Commercial grower audience. Attendance 30.

Parker, M.L. January 2020. North Carolina Peach Growers Society. Carthage, NC. Commercial grower audience. Attendance 50.

Parker, M.L. February 2020. Western District Apple School, Hendersonville, NC. Commercial grower audience. Attendance 110.

Parker, M.L. March 2020. Brushy Mt. Fruit School, Wilkesboro, NC. Commercial grower audience. Attendance 50.

Shengrui Yao. 2020. Fruit pruning demonstration on Feb 27, 2020 (with 2015 organic apple rootstock trial included).

Blatt, S. 2020. Modi and Buckeye Gala NC140 plantings. NSFGA Virtual Orchard Tour, August.

Robinson, T.L. 2020. Using physiological principles to design your next orchard. NY Fruit and Vegetable Expo, Syracuse, NY. Jan 15, 2020. (250 people)

Robinson, T.L. 2020. A vision for future apple orchards. Nova Scotia Fruit Growers Annual Meeting, NY Jan 28, 2020. (150 people)

Robinson, T.L., L. Cheng, M. Miranda Sazo, S. Henning, M. Wiltberger, C. Kahlke, C. Watkins. 2020. A Multi-pronged Strategy for Managing Honeycrisp in 2020. Lake Ontario Fruit School. Feb. 3 and 4, 2020. (150 people)

Robinson, T.L. 2020. Using physiological principles to design your next orchard. International Fruit Tree Association Annual Conference, Grand Rapids, MI. Feb 11, 2020. (400 people)

Robinson, T.L. 2020. Precision crop load management in apple. Cornell Cooperative Extension Webinars. 10 Webinars in May 2020. (Total of 500 people)

Robinson, T.L. 2020. Managing Irrigation in 2020. Cornell Cooperative Extension Webinar. July 2, 2020. (100 people)

Robinson, T.L., L. Cheng, M. Miranda Sazo, S. Henning, M. Wiltberger, C. Kahlke, C. Watkins. 2020. A Multi-pronged Strategy for Managing Honeycrisp in 2020. Cornell Cooperative Extension Webinar. July 13, 2020. (100 people)

Crassweller, R., D. Smith. 2020. 2019 Apple Rootstock Evaluations at Rock Springs. Mid-Atlantic Fruit and Vegetable Conference. Hershey, PA. January 28-30.

Crassweller, R., D. Smith. 2020. Third Generation Apple System Trials –BiaxialTrees. Mid-Atlantic Fruit and Vegetable Conference. Hershey, PA. January 28-30.

Black, B. “NC-140 stone fruit rootstock trials, and high density tart cherry research.” Kaysville Fruit and Vegetable Field Day (virtual) meeting. Three pre-recorded segments along with live question and answer. (31 participants) 30 June 2020

Sherif, S. 2020. Performance of Apple and Peach Rootstocks in Virginia and Other Mid-Atlantic States. Presented at 5 Fruit Schools: Winchester Regional Commercial Tree Fruit School, Rappahannock-Madison Area Fruit School, Central Virginia Commercial Tree Fruit Production School, Roanoke commercial tree Fruit Production School, and Southern Virginia tree fruit school.

York Z, Teh SL, Evans K (2019) Advancing genetic resources for pear rootstock breeding. Washington State Tree Fruit Association Fruit Meeting. December 9, 2019 (oral presentation).

York Z, Teh SL, Evans K (2019) Next generation network: Fruit breeding 101. WSU Columbia View. October 24, 2019 (public field tour).

Casagrande-Biasuz E, Fazio G, Kalcsits L. (2019) Developing rootstock recommendations for WA38 in Washington State. Washington State Tree Fruit Association Fruit Meeting. December 9, 2019 (oral presentation).

Kalcsits L. 2019. Unravelling factors that elevate bitter pit risk and the implications for its management in apple. December 4, 2019. Summerland, BC.

Kalcsits L. 2020. Calcium Absorption and Movement in Honeycrisp. January 28, 2020. Hershey, Pennsylvania. Mid-Atlantic Fruit and Vegetable Convention. George Goodling Memorial Lecture.

Kalcsits L. 2020. Bitter pit management in Honeycrisp. February 6, 2020. Wilbur-Ellis Annual Meeting. Yakima, WA

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Videos

Youtube video: <https://www.youtube.com/watch?v=N47sGkVgeqA&t=6s>