

## Curriculum Vitae

Edward Francis Durner, Ph.D.  
Associate Research Professor  
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### Education :

Ph.D. in Horticulture Minor	North Carolina State University Raleigh, December, 1985 Statistics
M.S. in Horticulture Minor	Virginia Polytechnic Institute and State University, Blacksburg, December 1982 Plant Physiology
B. S. in Horticulture Minor	University of Maryland, College Park, December, 1980 Agronomy

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### Professional Experience :

#### Director.

The Student Sustainable Farm at Rutgers  
January 1, 2010 to December 31, 2015

The Cook Student Organic Farm  
January 1, 2006 to December 31, 2009  
Department of Plant Biology and Pathology, Cook College, Rutgers University

#### Associate Research Professor.

July 1 1995 to present.  
Department of Plant Biology and Pathology, Cook College, Rutgers University

July 1, 1992 to July 1, 1995.  
Rutgers Fruit Research Center, Cook College, Rutgers University.

Assistant Research Professor.

January 1986 June 30, 1992.

Rutgers Fruit Research Center, Cook College, Rutgers University.

Graduate Research Assistant.

January 1983 to December 1985.

Department of Horticultural Science, North Carolina State University.

Instructor of Biology and Chemistry.

August 1982 to December 1982.

Saint Mary High School, Annapolis, MD.

Graduate Research Assistant.

January 1981 to August 1982.

Department of Horticulture, Virginia Polytechnic Institute and State University.

***Publications***

**Books :**

Durner, E.F. (2013) Principles of Horticultural Physiology. CAB International, Wallingford, Oxfordshire, UK (417 pp).

**Book chapters :**

Durner, E.F. (2017) Mathematical modeling of horticultural crops. In: Horticultural Compendium. CAB International, Wallingford, Oxfordshire, UK.

Durner, E.F. (2017) Rootstocks. In: Horticultural Compendium. CAB International, Wallingford, Oxfordshire, UK.

Gianfagna, T.J., E.F. Durner and A. Idriss. 1992. Mode of action and use of PGRs in reducing the effects of environmental stress on horticultural crops. In: Current Plant Science & Biotechnology in Agriculture. 1992. v.13 p.778-787. Dordrecht : Kluwer Academic Publishers.

**Refereed Journal Articles :**

*In preparation:*

Durner, E.F., 2017. Using the ART (Aligned Rank Transformation) to analyze non-normal data in agricultural research. In preparation.

Durner, E.F., 2017. An L-Systems model of flowering architecture in the long day strawberries (*Fragaria X ananassa* Duch.) 'Albion', 'Elan', 'Tarpan' and 'Gasana'. In preparation.

Durner, E.F., 2017. L-Systems modeling of floral phenology in goldenberry (*Physalis peruviana*). In preparation.

*Published:*

Durner, E.F., 2017. Conditioning alleviates reduced yield of smaller plugs of 'Albion' strawberry (*Fragaria X ananassa* Duch.) in off-season plasticulture production. Journal of Horticultural Science & Biotechnology (accepted).

Durner, E.F. 2017. Long-day and nitrogen conditioning of 'Albion' strawberry (*Fragaria X ananassa* Duch.) enhances off-season production. Journal of Horticultural Science & Biotechnology (accepted).

Durner, E.F. 2017. Fall nitrogen enhances spring nitrogen enhanced flowering in the long-day strawberry cultivar 'Elan'. AIMS Agriculture and Food 2(2):149-164.

Durner, E.F. 2017. Enhanced flowering of the F1 long-day strawberry cultivars "Tarpan" and "Gasana" with nitrogen and daylength management. AIMS Agriculture and Food 2(1):1-15.

Durner, E.F. 2016. Enhanced Flowering of The F1 Long-day Strawberry Cultivar 'Elan' via Nitrogen and Daylength Manipulation. AIMS Agriculture and Food 1:4-19.

Durner, E.F. 2016. Photoperiod and Temperature Conditioning of 'Sweet Charlie' Strawberry (*Fragaria X ananassa* Duch.) Plugs Enhances Off-Season Production. Scientia Horticulturae 201:184-189.

Durner, E.F. 2015. Photoperiod affects floral ontogeny in strawberry (*Fragaria x ananassa* Duch.) plug plants. Scientia Horticulturae 194:154-159.

Provance-Bowley, Mary C., J. R. Heckman and E.F. Durner. 2010. Calcium silicate suppresses powdery mildew and increases yield of field grown wheat. J. Soil Science Society of America 74(5): 1652-1661.

Durner, E. F., E. B. Poling and J. L. Maas. 2002. Recent Advances in Strawberry Plug Transplant Technology. HortTechnology 12:11-16.

Gottdenker, J.S., G.A. Giacomelli and E.F. Durner.2001. Supplemental lighting strategy

for greenhouse strawberry production. *Acta Hort.* 559:307-312.

Perry, R., G. Reighard, D. Ferree, T. Beckman, G. Brown, J. Cummins, E. Durner, G. Greene, and S. Johnson. 2000. Performance of the 1984 NC-140 cooperative peach rootstock planting. *Journal of the American Pomological Society.* 54:6-10.

Durner, E. F. 1999. Winter greenhouse strawberry production using conditioned plug plants. *HortScience* 34:615-616.

Aneja, M., T.J. Gianfagna, S.A. Garrison, and E.F. Durner. 1999. Rapid sex-typing of asparagus for male hybrid seed production using n-propyl N-(3,4-dichlorophenyl)carbamate (NPC). *HortScience* 34:1090-1094.

Durner, E. F. and E. B. Poling. 1998. Phytotron research investigations with conditioned 'Sweet Charlie' and 'Camarosa' plugs. *Acta Hort.* 513:403-408.

Gianfagna, T. J., L. Logendra, E. F. Durner and H. W. Janes. 1998. Controlling crop height and side shoot production in tomato with plant bioregulators. *Life Support and Biosphere Science.*

Durner, E. F. 1995. Dormant pruning and fall ethephon application influence on peach pistil hardiness. *J. Amer. Soc. Hort. Sci.* 120:823-829.

Polk, D.F., E.F. Durner, and E.F. Rizio. 1994. Arthropod pest pressure among several disease-resistant apple cultivars. *Fruit Varieties Journal* 48:44-45.

Durner, E.F. and T.J. Gianfagna. 1992. Interactions of ethephon, whitewashing, and dormant oil on pistil growth, hardiness, bloom date and yield in peach. *HortScience* 27:104-105.

Durner, E.F. and J.C Goffreda. 1992. Rootstock induced differences in flower bud phenology in peach. *J. Amer. Soc. Hort. Sci.* 117:690-697.

Durner, E.F., D.F. Polk and J.C. Goffreda. 1992. Low input apple production systems : consumer acceptance of disease resistant cultivars. *HortScience* 27:177-179.

Durner, E.F., and T.J. Gianfagna. 1991. Ethephon prolongs dormancy and enhances supercooling in peach flower buds. *J. Amer. Soc. Hort. Sci.* 116:500-506.

Durner, E.F., and T.J. Gianfagna. 1991. Peach pistil carbohydrate and moisture contents and growth during controlled deacclimation following ethephon application.

J. Amer. Soc. Hort. Sci. 116:507-511.

Durner, E.F. 1990. Rootstock influence on flower bud hardiness and yield of 'Redhaven' peach in New Jersey. HortScience 25:172-173.

Durner, E.F. 1990. Dormant pruning reduces rehardening of peach pistils after dehardening. HortScience 25:980.

Durner, E.F. and T.J. Gianfagna. 1990. Peach pistil growth inhibition and subsequent bloom delay by mid-winter bud whitewashing. HortScience 25:1222-1224.

Durner, E.F., T.J. Gianfagna, F.X. Rooney, G.S. Teiger, M.J. Seiler, and M.J. Cantarella. 1990. Harvest date and size distribution of peach fruit are altered with fall applied ethephon. HortScience 25:911-913.

NC140. 1990. Early performance of 'Starkspur Supreme Delicious' on 16 rootstocks in the NC-140 Cooperative Planting. Fruit Var. J. 44:225-235.

Durner, E.F. 1989. OPS: A computer program for estimating optimum plot size for field research. HortScience 24:1040.

Durner, E.F. 1989. Cryoprotection of deacclimating peach flower buds by ethephon alteration of pistil carbohydrate content. Cryobiology : The International Journal of Low Temperature Biology and Medicine 26:290-296.

Durner, E. F. and T. J. Gianfagna. 1989. Ethephon alters dormant peach flower bud carbohydrate and water content. Acta Hort. 254:297-301.

Gianfagna, T. J., E. F. Durner, and S. Q. Salas. 1989. Evaluation of plant growth regulators as possible replacement compounds for alar in apple production. Acta Hort. 239.

Gianfagna, T. J., E. F. Durner and G. S. Teiger. 1989. Reducing low temperature injury to peach flower buds with ethephon. Acta Hort. 239:203-206.

Durner, E.F. and T.J. Gianfagna. 1988. Fall ethephon application increases peach flower bud resistance to low-temperature stress. J. Amer. Soc. Hort. Sci. 113:404-406.

Durner, E.F. and E.B. Poling. 1988. Strawberry developmental responses to photoperiod and temperature : a review. Adv. in Strawberry Prod. 7:6-15.

Durner, E.F., and F.X. Rooney. 1988. 'Rio Oso Gem' and 'Loring' peach flower bud and wood hardiness as affected by different rootstocks. Fruit Varieties Journal 42:134-138.

Durner, E.F. and E.B. Poling. 1987. Flower bud induction, initiation, differentiation and development in the 'Earliglow' strawberry. *Scientia Hort.* 31:61-69.

Durner, E.F., E.B. Poling and E.A. Albrechts. 1987. Early season yield responses of 'Douglas', 'Tufts', 'Pajaro' and 'Chandler' strawberries to photoperiod and chilling in a Florida winter production system. *J. Amer. Soc. Hort. Sci.* 112:53-56.

Durner, E.F. and E.B. Poling. 1986. Ribbon row production of six strawberry cultivars at six spacings on raised and flat beds in southeastern North Carolina. *Adv. in Strawberry Prod.* 5:1-6.

Poling, E.B. and E.F. Durner. 1986. Annual strawberry hill cultural system in southeastern North Carolina. *HortScience* 21:240-242.

Durner, E.F., J.A. Barden and D.G. Himelrick. 1985. Net photosynthesis growth and development of three photoperiodic types of strawberry as affected by photoperiod. *Adv. in Strawberry Prod.* 4:28-31.

Durner, E.F. and E.B. Poling. 1985. Comparison of three methods for determining the floral or vegetative status of strawberry plants. *J. Amer. Soc. Hort. Sci.* 110:808-811.

Durner, E.F., J.A. Barden, D.G. Himelrick and E.B. Poling. 1984. Photoperiod and temperature effects on flower and runner development in day-neutral, Junebearing and everbearing strawberries. *J. Amer. Soc. Hort. Sci.* 109:396-400.

Swartz, H.J., S.E. Gray, L.W. Douglass, E.F. Durner, C.S. Walsh, and G.J. Galletta. 1984. The effect of a divided canopy trellis design on thornless blackberry. *HortScience* 19:533-535.

**Published Abstracts :**

Durner, E. F. and E. B. Poling. 1998. Phytotron research investigations with conditioned 'Sweet Charlie' and 'Camarosa' plugs. Abstracts of the 25<sup>th</sup> International Horticultural Congress, Brussels, Belgium, August 2-7, 1998.

Durner, E. F. 1993. Peach pistil response to multiple fall ethephon applications. *HortScience* 28:589.

Durner, E. F. 1992. Dormant Pruning influence on peach pistil hardness. *HortScience* 27:638.

Durner, E. F. 1991. Rootstock induced differences in flower bud growth of peach.

HortScience 26:760.

Durner, E. F. and T. J. Gianfagna. 1990. Ethephon reduces peach flower bud dehardening. HortScience 25:1167.

Durner, E. F. 1989. Harvest date and size distribution of peach fruit are altered with fall applied ethephon. HortScience 24:71.

Durner, E. F. 1988. OPS : A basic computer program for estimating the optimum plot size for horticultural and agronomic research. HortScience 23:78.

Durner, E. F. 1988. Increasing peach hardness with ethephon. Abstracts of the International Peach Symposium, June 20 - 22, Clemson SC, p. 63.

Durner, E. F. 1987. Rootstock affects cold hardness of peach flower buds and woody tissue. HortScience 22:1148.

Poling, E. B. and E. F. Durner. 1986. The effect of bed height and spunbonded row covers on overwintering of strawberries in southeastern North Carolina. HortScience 21:937.

Durner, E. F., E. B. Poling, and E. A. Albrechts. 1985. Field response of freshly dug 'Douglas' strawberry plants to digging date, photoperiod and chilling. HortScience 20:563-564.

Durner, E. F. and E. B. Poling. 1984. A comparison of microscopic and macroscopic determination of flower bud differentiation in Fragaria X ananassa Duch. and the time of its occurrence in eastern North Carolina. HortScience 19:539.

Durner, E. F. and D. G. Himelrick. 1982. Effect of photoperiod and temperature on Junebearing, everbearing and day-neutral strawberries. HortScience 17:501.

**Non-refereed articles :**

Polk, D. F., E. F. Durner, and G. Rizio. 1994. Reduced spray trials for scab resistant apples in New Jersey. Northeast Sustainable Apple Production Newsletter. Univ. Mass., D. Cooley ed. 5(1):4-6.

Durner, E. F. 1994. The 1994 NC-140 peach rootstock planting. Cream Ridge Fruit Research and Development Center 1993 Annual Report, NJAES Publication # P-12004-1-94, p. 1.

Durner, E. F. 1994. Hardy kiwifruit. Cream Ridge Fruit Research and Development

Center 1993 Annual Report, NJAES Publication # P-12004-1-94, pp. 49-50.

Durner, E. F. 1993. Fruit Research Summary : 1992. Rutgers Fruit Research Center, Cream Ridge. Compiler and Editor.

Durner, E. F. 1992. Peach bloom delay with ethephon. Pennsylvania Fruit News 72 (4):20-22.

Durner, E. F. 1992. Peach bloom delay with ethephon. Virginia Fruit 80 (6):3.

Polk, D. F., E. F. Durner, J. C. Goffreda, and G. F. Rizio. 1992. Consumer acceptance trials with named and numbered disease resistant cultivars in 1991. Northeast LISA Apple Production Newsletter. Univ. Mass., D. Cooley ed. 3(1):3, 11.

Durner, E. F. 1991. Fruit Research Summary : 1990. Rutgers Fruit Research Center, Cream Ridge. Compiler and Editor.

Durner, E. F. 1991. Rootstock influence on peach flower bud development. Compact Fruit Tree, Volume 24, Proceedings of the 34th Annual Conference of the International Dwarf Fruit Tree Association.

Durner, E. F. 1991. Delaying peach bloom to avoid frost injury. Proceedings of the 98th Annual Meeting of the West Virginia State Horticultural Society.

Durner, E. F. 1991. Peach rootstock research : 1986 - 1990. Proceedings of the 98th Annual Meeting of the West Virginia State Horticultural Society.

Polk, D. F., G. Rizio, and E. F. Durner. 1991. Pest incidence in disease resistant cultivars grown under organic methods compared to standard cultivars grown under a traditional IPM program. Proc. Cumberland-Shenandoah Fruit Workers Conf., Harpers Ferry, WV, p. 67.

Durner, E. F. 1990. Fruit Research Summary : 1989. Rutgers Fruit Research Center, Cream Ridge. Compiler and Editor.

Gianfagna, T. J. and E. F. Durner. 1990. Delaying bloom and increasing cold hardiness of peach flower buds with ethephon. Hort. News 70:4-8.

Polk, D. F. and E. F. Durner. 1990. Consumer acceptance of disease resistant apples in New Jersey. Northeast LISA Apple Production Newsletter. Univ. Mass., D. Cooley ed. 1(2):17.

Polk, D. F. and E. F. Durner. 1990. Insect management in a disease resistant orchard.



Northeast LISA Apple Production Newsletter. Univ. Mass., D. Cooley ed. 1(2):6-7.

Polk, D. F. and E. F. Durner. 1990. Pest management and consumer acceptance of disease resistant apples. Hort. News 70:11-13.

Durner, E. F. 1989. Supercooling in ethephon treated peach pistils. Proceedings of the 1989 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F. 1989. The appropriate use of mean separation techniques. Proceedings of the 1989 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F. 1989. Cultural practices that influence cold hardiness of peach. Pennsylvania Fruit News 69:55-56.

Polk, D. F. and E. F. Durner. 1989. A comparison of standard and novel pest management, tasting disease resistant apples. Northeast LISA Apple Production Newsletter. Univ. Mass., D. Cooley ed. 1(1):9-10.

Durner, E. F. 1988. Efficient research by optimizing plot size with experimental data. Proceedings of the 1988 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F. 1988. Ethephon : bloom delay and bud hardiness in peach. Proceedings of the 1988 Regional Extension Fruit School.

Durner, E. F. 1988. Rootstock effects on cold hardiness of peach. Compact Fruit Tree 21:106-112.

Durner, E. F. 1988. Can rootstock affect peach flower bud hardiness? New Jersey Hort Society News, Fall / Winter 1989.

Durner, E. F. 1987. Flower bud and wood hardiness of peach as affected by rootstock. Proceedings of the 1987 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F. and T. J. Gianfagna. 1987. Alar replacement update. Proceedings of the 1987 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F., T. Gianfagna and J. A. Hopfinger. 1986. PPG-1721 Effects on color, maturity and abscission of 'Rome', 'Red Delicious' and 'Empire' apples. Proceedings of The 1986 Cumberland Shenandoah Fruit Workers Conference.

Durner, E. F. 1984. Strawberry ribbon row culture. Proceedings of the 13th Annual N.C. Roadside Market and Pick Your Own Operators Conference. p. 33.

Durner, E. F. 1983. Planting year ribbon row yields of six strawberry cultivars at six spacings. Summary of Strawberry Research and On Farm Tests 1981-1983. Horticultural Science Department, NCSU, p.7.

Poling, E. B. and E. F. Durner. 1982. Photoperiod responses of strawberry cultivars. Report 1982 Phytotron, NCSU p. 11.

### **Invited Papers**

Durner, E.F. 2015. Challenges and Opportunities of Organic and Non-Organic Vegetable Production. Department of Horticulture and Crop Science. California Polytechnic Institute, January 26, 2015. San Luis Obispo, CA.

Durner, E.F. 2015. Developing a Programmable Off-season Strawberry Production System Using F1-Seed Propagated Hybrids. Department of Horticulture and Crop Science. California Polytechnic Institute, January 27, 2015. San Luis Obispo, CA.

Durner, E. F. and E. B. Poling. 1998. Phytotron research investigations with conditioned 'Sweet Charlie' and 'Camarosa' plugs. Special Evening Symposium, 'Recent Advances in Strawberry Plug Transplant Technology', 25<sup>th</sup> International Horticultural Congress, Brussels, Belgium, August 3, 1998.

Durner, E. F. 1997. Using ethephon to enhance peach production. Department of Botany, Trinity College, Dublin. 29 May 1997. Dublin, Ireland.

Durner, E. F. 1996. Strawberries : Plug plants for greenhouse production. Greenhouse Vegetable Growers Association, Annual Meeting. April 1996. Atlantic City, NJ.

Durner, E. F. 1995. Adventures in fruit science. Horticultural Science Department, North Carolina State University. 24 January 1995. Raleigh, NC.

Durner, E. F. 1995. Adventures in fruit science. Vernon G. James Research Center, North Carolina State University. 25 January 1995. Plymouth, NC.

Durner, E. F. 1995. Winter injury of stone fruits: facts & fallacies. 1995 State Horticultural Association of Pennsylvania Annual Winter Meeting. 31 January 1995, Hershey, PA.

Durner, E. F. 1992. Use of ethephon on peaches : an update. Rutgers 49th Annual Pest Control Conference. 17 December, New Brunswick, NJ.

Durner, E. F. 1992. Chemicals to Delay Bloom. The 133rd Annual Meeting and Trade

Show of the State Horticultural Association of Pennsylvania, January 28 - 30, Hershey, PA.

Durner, E. F. 1992. Delaying Bloom In Peach. Virginia State Horticultural Society Meeting, January 13-15, Richmond VA.

Durner, E. F. 1991. Physiology of Cold Hardiness. Grape Expectations - a Viticultural and Enological Symposium, March 9, Jamesburg, NJ.

Durner, E. F. 1991. Rootstock Influence on Peach Flower Bud Development. 34th Annual Conference of the International Dwarf Fruit Tree Association, February 24-27, Grand Rapids, MI.

Durner, E. F. 1991. Delaying peach bloom to avoid frost injury. 98th Annual Meeting of the West Virginia State Horticultural Society, February 5-6, Martinsburg, WV.

Durner, E. F. 1991. Peach Rootstocks - Five Year Research. 98th Annual Meeting of the West Virginia State Horticultural Society, February 5-6, Martinsburg, WV.

Durner, E. F. 1989. What's New in PGR's : Ethylene Releasing Agents. 86th Annual Meeting of the American Society for Horticultural Science, July 29 - August 3, Tulsa, OK.

Durner, E. F. 1989. Cultural practices which influence cold hardiness of peach. 130th Annual Meeting State Horticultural Association of Pennsylvania, Inc., January 31 - February 2, Hershey, PA.

Durner, E. F. 1988. Ethephon, bloom delay and bud hardiness in peaches. Invited speaker for 'The Cutting Edge', Multistate Inservice Program, October 18-19, Winchester, VA.

Durner, E. F. 1988. Rootstock effects on cold hardiness of peach. Invited speaker, 31st Annual International Dwarf Fruit Tree Association, March 21, Hershey Park, PA.

### **Professional Scientific Presentations**

Durner, E.F. 2015. Challenges and Opportunities of Organic and Non-Organic Vegetable Production. Department of Horticulture and Crop Science. California Polytechnic Institute, January 26, 2015. San Luis Obispo, CA.

Durner, E.F. 2015. Developing a Programmable Off-season Strawberry Production System Using F1-Seed Propagated Hybrids. Department of Horticulture and Crop Science. California Polytechnic Institute, January 27, 2015. San Luis Obispo, CA.

Durner, E. F. and E. B. Poling. 1998. Phytotron research investigations with conditioned 'Sweet Charlie' and 'Camarosa' plugs. Special Evening Symposium, 'Recent Advances in Strawberry Plug Transplant Technology', 25<sup>th</sup> International Horticultural Congress, Brussels, Belgium, August 3, 1998.

Durner, E. F. 1993. Peach pistil response to multiple fall ethephon applications. 90th Annual Meeting of the American Society for Horticultural Science, 22 - 29 July, Nashville, TN.

Durner, E. F. 1992. Dormant pruning influence on peach pistil hardiness. 89th Annual Meeting of the American Society for Horticultural Science, 31 July - 6 August, Honolulu, HA.

Durner, E. F. 1991. Rootstock induced differences in flower bud growth of peach. 88th Annual Meeting of the American Society for Horticultural Science, July 19-25, University Park, PA.

Durner, E. F. and T. J. Gianfagna. 1990. Ethephon reduces peach flower bud dehardening. 87th Annual Meeting of the American Society for Horticultural Science, November 4-8, Tucson, AZ.

NC140. 1990. Early performance of 'Starkspur Supreme Delicious' on 16 rootstocks in the NC-140 Cooperative Planting. 23<sup>rd</sup> International Horticultural Congress, Florence, Italy.

Gianfagna, T.J. and E. F. Durner. 1990. Ethephon prolongs dormancy and increases cold hardiness in peach. 23<sup>rd</sup> International Horticultural Congress, Florence, Italy.

Durner, E. F. 1989. Supercooling in ethephon-treated peach pistils. 1989 Cumberland Shenandoah Fruit Workers Conference, Nov 16-17, Harpers Ferry, WV.

Durner, E. F. 1989. The appropriate use of mean separation techniques. 1989 Cumberland Shenandoah Fruit Workers Conference, Nov 16-17, Harpers Ferry, WV.

Durner, E. F. 1989. Harvest date and size distribution of peach fruit are altered with fall applied ethephon. 86th Annual Meeting of the American Society for Horticultural Science, July 29 - August 3, Tulsa, OK.

Durner, E. F. and Thomas J. Gianfagna. 1989. Reducing low temperature injury to peach flower buds with ethephon. Temperature Stress Gordon Conference, January 2 - 6, 1989, Oxnard, CA

Durner, E. F. 1989. Hardiness of tree fruit crops. Temperature Stress Gordon Conference, January 2 - 6, 1989, Oxnard, CA.

Durner, E. F. 1988. OPS : A basic computer program for estimating the optimum plot size for horticultural and agronomic research. 85th Annual Meeting of the American Society for Horticultural Science, August 6-11, East Lansing, MI.

Durner, E. F. 1988. Ethephon alters dormant peach flower bud carbohydrate and water content. International Peach Symposium, June 20 - 22, Clemson SC.

Durner, E. F. 1988. Efficient research by optimizing plot size with experimental data. 1988 Cumberland Shenandoah Fruit Workers Conference, Nov. 17-18, Harpers Ferry, WV.

Gianfagna, T. J., E. F. Durner, and S. Q. Salas. 1988. Evaluation of plant growth regulators as possible replacement compounds for alar in apple production. Sixth International Symposium on Growth Regulators in Fruit Production, July 25-29, 1988, Penticton, British Columbia, Canada.

Gianfagna, T. J., E. F. Durner and G. S. Teiger. 1988. Reducing low temperature injury to peach flower buds with ethephon. Sixth International Symposium on Growth Regulators in Fruit Production, July 25-29, 1988, Penticton, British Columbia, Canada.

Durner, E. F. 1987. Rootstock affects cold hardiness of peach buds and woody tissue. 84th Annual Meeting of the American Society for Horticultural Science, Nov. 6-14, Orlando, FL.

Durner, E. F. 1987. Alar replacement update. 1987 Cumberland Shenandoah Fruit Workers' Conference, Nov. 19-20, Harpers Ferry, WV.

Durner, E. F. 1987. Flower bud and wood hardiness of peach as affected by rootstock. Cumberland Shenandoah Fruit Workers' Conference, Nov. 19-20, Harpers Ferry, WV.

Durner, E. F., T. Gianfagna, and T. Hopfinger. 1986. PPg 1721 effects on color, maturity and abscission of 'Rome', 'Red Delicious' and 'Empire' apples. Cumberland Shenandoah Fruit Workers' Conference, Nov. 20-21, Harpers Ferry, WV.

Poling, E. B. and E. F. Durner. 1986. The effect of bed height and spunbonded row covers on overwintering of strawberries in southeastern North Carolina. 83rd Annual Meeting of the American Society for Horticultural Science, August 11-20, Davis, CA.

Durner, E. F., E. B. Poling, and E. A. Albregts. 1985. Field response of freshly dug

'Douglas' strawberry plants to digging date, photoperiod and chilling. 82nd Annual Meeting of the American Society for Horticultural Science, July 28-August 2, Blacksburg, VA.

Durner, E. F. and E. B. Poling. 1984. A comparison of microscopic and macroscopic determination of flower bud differentiation in *Fragaria X ananassa* Duch. and the time of its occurrence in eastern North Carolina. 81st Annual Meeting of the American Society for Horticultural Science, August 3-9, Vancouver, BC.

Durner, E. F. and D. G. Himelrick. 1982. Effect of photoperiod and temperature on Junebearing, everbearing and day-neutral strawberries. 79th Annual Meeting of the American Society for Horticultural Science, August 8-13, Ames, IA.

### **Extension Teaching / Grower Group Presentations**

Durner, E.F. 1999. Ralex™ As a Peach Thinner. Rutgers Fruit Research and Extension Center Open House, September 9, Cream Ridge, NJ.

Durner, E.F. 1994. The 1994 NC-140 Peach Rootstock Planting. The 5th Annual Cream Ridge Twilight Meeting, June 1, 1994, Cream Ridge, NJ.

Durner, E. F. 1994. Winter injury and frost protection of fruit crops. Gloucester / Salem County Twilight Fruit Meeting, April 6, 1994, Clayton, NJ.

Durner, E.F. 1994. A review of cold hardiness in tree fruit crops. North Jersey Fruit Meeting, March 9, 1994, Snyder Research and Extension Farm, Pittstown, NJ.

Durner, E. F. 1993. Peach response to multiple ethephon application. The 4th Annual Cream Ridge Twilight Fruit Meeting, June 2, 1993, Cream Ridge, NJ.

Durner, E. F. 1992. Effect of dormant pruning on peach flower bud hardiness. Southern New Jersey Tree Fruit Meeting, February 27, 1992, Berlin, NJ.

Durner, E.F. 1992. What's new in peach rootstocks for New Jersey. North Jersey Fruit Meeting, March 4, 1992, Basking Ridge, NJ.

Durner, E. F. 1992. Supercooling in peach. The 3rd Annual Cream Ridge Twilight Fruit Meeting, June 3, 1992, Cream Ridge, NJ.

Durner, E. F. 1992. Use of ethephon on peaches : an update. Rutgers University Forty-

Ninth Annual Peat Control Conference, 17 December 1992, New Brunswick, NJ.

Durner, E. F. 1991. Rootstock induced bloom delay in peach. The 2nd Annual Cream Ridge Twilight Fruit Meeting, June 5, 1991, Cream Ridge, NJ.

Durner, E. F. 1991. Peach bloom delay with ethephon. 1st Annual Twilight Fruit Meeting, April 15, 1991, Snyder Research Farm, Pittstown, NJ.

Durner, E. F. 1991. Protecting peach trees from low temperatures. Gloucester / Salem County Twilight Fruit Meeting, April 2, 1991, Clayton, NJ.

Durner, E. F. 1991. Orchard frost protection working group update - panel discussion, Southern New Jersey Tree Fruit Meeting, February 28, 1991, Clementon, NJ.

Durner, E.F. 1990. LISA test orchards / disease resistant apple taste test results. North Jersey Fruit Meeting, 1 March, Basking Ridge, NJ.

Durner, E. F. 1990. Consumer acceptance of disease resistant apple varieties. Southern New Jersey Tree Fruit Meeting, 28 February, Clementon, NJ.

Durner, E. F. 1989. Tree fruit physiology. New Jersey Office of Management and Budget Tour of Rutgers Fruit Research Center, August 8, Cream Ridge, NJ.

Durner, E. F. 1989. Increasing cold hardiness in peach / the effect of rootstock on peach and apple tree growth. Rutgers Fruit Research Center Open House / Field Day, June 13, Cream Ridge, NJ.

Durner, E. F. 1989. Tour of Rutgers Fruit Research Center, Monmouth County Agricultural Tour for Teachers, May 25, Cream Ridge, NJ.

Durner, E. F. 1989. Tour of Rutgers Fruit Research Center, National Association of County Agricultural Agents, April 2, Cream Ridge, NJ.

Durner, E. F. 1989. How to get young apple trees to bear earlier. North Jersey Fruit Meeting, 15 March, Basking Ridge, NJ.

Durner, E. F. 1989. Effects of ethephon on flowering and cold hardiness of peach. North Jersey Fruit Meeting, 15 March, Basking Ridge, NJ.

Durner, E. F. 1989. Harvest dates and fruit size distribution of ethephon treated peaches. Southern New Jersey Tree Fruit Meeting, 23 February, Clementon, NJ.

Durner, E. F. 1988. Tour of Rutgers Fruit Research Center, Crop Production Tour,

EPA/IR-4, July 13, Cream Ridge, NJ.

Durner, E. F. 1988. Ethephon enhances peach flower hardiness. Southern New Jersey Tree Fruit Meeting, Feb. 9, Atlantic City, NJ.

Durner, E. F. 1987. General aspects of cold hardiness in peaches. Southern New Jersey Tree Fruit Meeting, Feb. 26, Clementon, NJ.

Durner, E. F. 1987. Tree fruit research tour. Twilight Fruit Meeting, July 2, Cream Ridge, NJ.

**Teaching Assignments and Activity:**

July 1, 2009 to December 31, 2015: Director, The Student Sustainable Farm at Rutgers

January 2006 to June 2009: Director of The Cook Student Organic Farm

July 1995 to June 1998: Plant Science Undergraduate Curriculum Coordinator

**Courses (all 100% responsibility unless otherwise noted)**

Fall	2017	11 776 202	Applied Physiology of Hort Crops
Spring	2017	11 776 323	Fruit Production
Fall	2016	11 776 202 11 776 211	Applied Physiology of Hort Crops Into to Horticulture (1 lecture)
Fall	2015	11 776 202 11 776 211 11 776 350	Applied Physiology of Hort Crops Into to Horticulture (1 lecture) Agroecology Practicum
Spring	2015	11 776 323 11 776 350	Fruit Production Agroecology Practicum
Fall	2014	11 776 202 11 776 211 11 776 221	Applied Physiology of Hort Crops Into to Horticulture (1 lecture) Principles of Organic Crop Production (1 lecture)
Fall	2013	16 778 508 11 776 202 11 776 211	Applied Plant Science Statistics Applied Physiology of Hort Crops Into to Horticulture (1 lecture)



		11 776 221	Principles of Organic Crop Production (1 lecture)
Spring	2013	11 776 323 11 776 350	Fruit Production Agroecology Practicum
Fall	2012	11 776 202 11 776 211 11 776 221	Applied Physiology of Hort Crops Intro to Horticulture (1 lecture) Principles of Organic Crop Production (1 lecture)
Spring	2012	11 776 350	Agroecology Practicum
Fall	2011	16 778 508 11 776 202 11 776 221	Applied Plant Science Statistics Applied Physiology of Hort Crops Principles of Organic Crop Production (1 lecture)
Spring	2011	11 776 323	Fruit Production
Fall	2010	11 776 202 11 776 221	Applied Physiology of Hort Crops Principles of Organic Crop Production (1 lecture)
Spring	2010	11 776 350	Agroecology Practicum
Fall	2009	16 778 508 11 776 323	Applied Plant Science Statistics Applied Physiology of Hort Crops
Spring	2009	11 776 323	Fruit Production
Fall	2008	16 778 508 11 776 323	Applied Plant Science Statistics Applied Physiology of Hort Crops
Fall	2007	16 778 508 11 776 323	Applied Plant Science Statistics Applied Physiology of Hort Crops
Spring	2007	11 776 341	Fruit Production
Fall	2006	11 776 323	Applied Physiology of Hort Crops
Fall	2005	16 778 508 11 776 323	Applied Plant Science Statistics Applied Physiology of Hort Crops
Spring	2005	11 776 341	Fruit Production
Fall	2004	11 776 323	Applied Physiology of Hort Crops

Spring	2004	11 776 341	Fruit Production
Fall	2003	16 778 508 11 776 323 11 778 615	Applied Plant Science Statistics Applied Physiology of Hort Crops Special Problems in plant Science (1 guest lecture)
Fall	2002	11 776 323 11 778 615	Applied Physiology of Hort Crops Special Problems in plant Science (1 guest lecture)
Spring	2002	11 776 341	Fruit Production
Fall	2001	16 778 508 11 776 323 11 778 615	Applied Plant Science Statistics Applied Physiology of Hort Crops Special Problems in plant Science (1 guest lecture)
Spring	2001	11 776 341	Fruit Production
Fall	2000	11 530 323 11 530 615	Applied Physiology of Hort Crops Special Problems in plant Science (1 guest lecture)
Fall	1999	16 778 508 11 776 202 11 530 615	Applied Plant Science Statistics Applied Physiology of Horticultural Crops Special Problems in Plant Science (1 guest lecture)
Spring	1999	11 530 341	Small Fruit Production
Fall	1998	11 776 202 16 765 601 11 776 211	Applied Physiology of Horticultural Crops Intro to Plant Biology (1 guest lecture) Intro to Horticulture (1 guest lecture)
Fall	1997	16 778 508 11 776 202 11 530 615	Applied Plant Science Statistics Applied Physiology of Horticultural Crops Special Problems in Plant Science (1 guest lecture)
Spring	1997	11 530 341	Small Fruit Production
Fall	1996	11 776 202 11 776 141	Applied Physiology of Horticultural Crops Intro to Plant Science (1 guest lecture)
Fall	1995	16 778 508 11 530 323	Applied Plant Science Statistics Applied Physiology of Horticultural Crops

Fall	1994	16 778 508 11 530 323	Applied Plant Science Statistics Applied Physiology of Horticultural Crops
Spring	1993	11 530 341	Small Fruit Production
Fall	1992	11 530 323	Applied Physiology of Horticultural Crops
Spring	1992	11 530 341 16 530 615	Small Fruit Production Special Problems in Horticulture Applied Plant Science Statistics
Fall	1991	11 530 323	Applied Physiology of Horticultural Crops
Fall	1990	11 530 323 16 530 615	Applied Physiology of Horticultural Crops Seminar in Horticulture
Spring	1990	16 530 614	Seminar in Horticulture
Fall	1989	16 530 616  16 530 615	Special Problems in Horticulture Applied Plant Science Statistics  Seminar in Horticulture
Spring	1989	16 530 614 11 530 496	Seminar in Horticulture Special Problems in Horticulture Horticultural Production Systems
Fall	1988	16 530 615 16 530 616	Seminar in Horticulture Special Problems in Horticulture Applied Plant Science Statistics
Spring	1988	16 530 614	Seminar in Horticulture
Fall	1987	16 530 615 11 530 340	Seminar in Horticulture Principles & Practices in Fruit Production
Spring	1987	16 530 614 11 015 101	Seminar in Horticulture Perspectives on Ag & The Environment
Fall	1986	11 015 101	Perspectives on Ag & The Environment

**Undergraduate Student Supervision:**

**2015**

*Practicum In Agroecology*

Elaine Erlenbach, Felysse Goldman, Sarah Laffend, Milan Martin, David Perrotti,  
Amanda Rodriguez-Mammas

**Undergraduate Student Supervision – All Interns at The Student Sustainable Farm at Rutgers :**

**2015** Angela Polites, Amanda Rodriguez-Mammas

**2014** Angela Polites, Peter Canavan, David Perrotti

**2013** Angela Polites, Peter Canavan, Brianda Messina, Angelica Malaspina, Victor Pineda-Vasquez, Gabby Aaron, Sara Koznecki

**2012** Liam Clifford, Scott Wardenski, Brianda Messina, Angelica Malaspina, Jessica Chamoun, Kimmy Dalton, Tatiana Quiroz

**2011** Liam Clifford, David Wallace, Kimberly Dalton , Tatiana Quiroz, Michael Conley, John Sommer, Shyam Sheth

**2010** Jordan Bard, Costa Boutsikaris, Liam Clifford, Erin Gassner, Adam Mahon, Sam Orr, Barbara Vilchez, Kimberly Dalton, Shyam Sheth

**2009** Kathleen Barbour, Kristina Centore, Drew E. Hart, Kira McDonald, Andrew M. Glaser, Kats Nakamura

**2008** Charlton Herczegh, Marley Skinner, Vincent Orazi, Christine Rhatigan, Kristina Centore, Adam Grbic, Lora Botwinick

**2007** Charlton Herczegh, Marley Skinner, Stefanie Zaitz, Aaron Michael Pincus, Jesse M. DeBrosse, Christine Rhatigan, Lora Botwinick, Vinnie Orazi

**2006** Jennifer Oliphant, Adam Grbic, Charlton Herczegh, Marley Skinner, Christine Rhatigan, Lora Botwinick

**Graduate Student Advising :**

Masters Thesis Co-advisor for Russell Blair (with Tom Gianfagna)  
Thesis Topic : Release and Wilthin as Thinning Agents for Peach

Masters Thesis Advisor for Helen Atthowe (completed).

Thesis Title : Evaluation of European Red Mite (Panonychus ulmi Koch.) Resistance in Apple (Malus domestica Borkh.)

Masters Thesis Advisor for Linda Vorsa (completed).

Thesis Title : The Influence of Rootstock on Supercooling and Winter Hardiness in Peach

Ph.D. Committee member for :

Mary Provence-Bowley, Plant Biology and Pathology  
Art DeGeatano, Department of Meteorology & Physical Oceanography  
Van Starner, Department of Entomology  
Douglas Eberhart, Department of Horticulture

Masters Thesis Committee member for :

Asma Idriss, Department of Horticulture

### **External Grants**

Abbott Laboratories

Use of Release<sup>TM</sup> on Peaches in NJ  
with Tom Gianfagna  
(1 July 1995 to 30 June 1998) \$ 5000

USDA Competitive Grant, #88-COOP-1 3524, Individual Project # 88-23

Development of a Low Input Apple Production System To Enhance Farm Profitability and Abate Environmental and Health Risks.  
Co-principal investigator with Mr. D. Polk  
Department of Agriculture and Resource Management  
(1 July 1988 to 30 June 1996) \$ 302,156

BASF Corporation

Growth Control of Apples With BAS9054  
(1991) \$ 5,400

Growth Control of Peaches With BAS111  
(1990) \$ 8,000

Rhone Poulenc Corporation

Studies of Ice Nucleation in Peach  
(1990 - 1991) \$ 6,000

International Dwarf Fruit Tree Association

Rapid Assessment of Peach Rootstock Germplasm for Scion Bloom Delaying Potential  
(1996 - 1997) \$ 1,000

Patterns of Supercooling of 'Redhaven' Peach on Different Rootstocks.  
(1988 - 1990) \$ 2,800

New Jersey Peach Promotion Council

High Density Peach Production for New Jersey  
(1988) \$ 500

New Jersey Horticultural Society

Patterns of Supercooling and Wood Hardiness of Redhaven on Different Rootstocks  
(1988) \$ 500

Rootstock Effect on Fruiting Wood Distribution in Peach  
(1988) \$ 500

Patterns of Supercooling In Peach  
(1987) \$ 1,000

New Jersey Apple Institute

Alar Replacement Search  
(1988) \$ 500

PPG Industries

PPG 1721 Affects on Apple Abscission and Peach Fruiting  
(1986-1987) \$4,600

**Internal Competitive Grants**

NJAES Rapid Response Grants

Comparison of Organic and Inorganic Fertility Management of Strawberry In Winter Greenhouse Production

(March 2002 – March 2003)	\$ 5000
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#### NJAES Tree Fruit Initiative Competitive Grants

Effects of Release<sup>TM</sup>, Wilthin<sup>TM</sup>, and Ethephon on Fruit Thinning and Cold Hardiness in Peach.

with Tom Gianfagna

(1 July 1995 to 30 June 1996)	\$ 8500
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(1 July 1996 to 30 June 1997)	\$ 8500
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(1 July 1997 to 30 June 1998)	\$ 8500
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Rapid Assessment of Peach Rootstock Germplasm for Scion Bloom Delaying Potential.

with Joe Goffreda

(1 July 1995 to 30 June 1996)	\$ 4000
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(1 July 1996 to 30 June 1997)	\$ 4200
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#### Rutgers Sustainable Agriculture Research and Extension Grant Program

Development of a Low Input Apple Production System for the Northeast.

Co-principal investigator with Mr. Dean Polk, Department of Agriculture and Resource Management, Cook College, Rutgers University.

(1 July 1991 to 30 June 1995)	\$ 36,500
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#### NJAES Competitive Grant # 288541

The Physiology, Genetics, and Evolution of Winter Hardiness :Diploid Blueberries as a Model System

(1 July 1990 to 30 June 1991)	\$ 32,000
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#### **Internally Generated Funds**

2006	The Cook Student Organic Farm	\$ 35,000
2007	The Cook Student Organic Farm	\$ 55,000
2008	The Cook Student Organic Farm	\$ 74,375
2009	The Cook Student Organic Farm	\$ 100,220
2010	The Student Sustainable Farm at Rutgers	\$ 65,500
2011	The Student Sustainable Farm at Rutgers	\$ 77,150
2012	The Student Sustainable Farm at Rutgers	\$ 71,000
2013	The Student Sustainable Farm at Rutgers	\$ 52,500
2014	The Student Sustainable Farm at Rutgers	\$ 29,500
2015	The Student Sustainable Farm at Rutgers	\$ 16,200

Total \$ 576,445

**Awards :**

Rutgers University ***Faculty Academic Service Increment***, July, 2017, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2012, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2010, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2008, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2007, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2006, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2002, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 2000, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 1999, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, July, 1997, in recognition of the quality of service to the University.

Rutgers University ***Faculty Academic Service Increment***, December, 1990, in recognition of the quality of service to the University.

The ***Paul Howe Shepard Award*** from the American Pomological Society for the paper "'Rio Oso Gem' and 'Loring' peach flower bud and wood hardiness as affected by different rootstocks." as the best paper appearing in Fruit Varieties Journal in 1988.

The ***A. H. Krezdorn Ward For Excellence In Doctoral Research*** from the American Society for Horticultural Science in 1986.



Inducted into ***Gamma Sigma Delta***, the honor society of agriculture, in recognition of high scholarship, outstanding achievement and service to Agricultural Science, April, 1984.

**Service.**

Horticulture Editorial Advisory Board, CAB International 2015 to present

Editorial Board, AIMS Agriculture and Food journal. 2015 to present.

Scholastic Standing Committee, SEBS, 2011 to September 2016.

Reviewer, HortScience.

Reviewer, Scientia Horticulturae.

Reviewer, Sustainability.

Reviewer, Horticultural Compendium, CABI.

Reviewer, Open Agriculture.