

# Peter M. Hirst

## Education

PhD                   The Ohio State University, 1994  
B.Hort.Sci.         Massey University, New Zealand, 1984

## Employment

2002-present       Associate Professor, Department of Horticulture and Landscape  
                          Architecture, Purdue University  
1997-2002         Assistant Professor, Department of Horticulture and Landscape  
                          Architecture, Purdue University  
1994 - 1996        Scientist, Horticultural Research Institute, New Zealand  
1990 - 1994        Graduate Research Associate, The Ohio State University  
1984 - 1990        Technical Officer, Department of Scientific and Industrial Research  
                          (DSIR), New Zealand

## Membership in scientific organizations

- American Pomological Society (APS) – member, executive board (1999-2002), advisory committee (2000-2005), Wilder medal committee, Hedrick award committee
- American Society for Horticultural Science (ASHS), pomology working group chair 2000, fruit publication award committee 2003-05 (chair 2005),
- International Society for Horticultural Science (ISHS)
- International Dwarf Fruit Tree Association (IDFTA)
- Midwest Fruit Specialists
- NC-140 regional research committee – “Rootstock and interstem effects on pome and stone fruit trees”, secretary 2003, vice-chair 2004, chair 2005
- NE-183 regional research committee – “Multi-disciplinary evaluation of new apple cultivars”, secretary 2000, chair 2001

## Awards and honors (last 5 years)

2006.       Junior Extension Award. Purdue University Cooperative Extension Specialists Association.  
2005       Shepard Award, American Pomological Society, co-author of paper “Eight year performance of 19 peach rootstocks at 20 locations in North America”

## Extension

Editor of Facts for Fancy Fruit newsletter ([www.hort.purdue.edu/fff](http://www.hort.purdue.edu/fff))  
Chair, Indiana Horticultural Congress ([www.inhortcongress.org](http://www.inhortcongress.org))

## Teaching

Hort 413 – Tree Fruit Production (<http://www.hort.purdue.edu/hort/courses/HORT413>)

## Publications

### Refereed Papers (last 5 years)

Marini, R.P., J.L. Andersen, W.R. Autio, B.H. Barritt, J.A. Cline, W.P. Cowgill, R.M. Crassweller, J.M. Garner, A. Gaus, R. Godin, G.M. Greene, C.R. Hampson, P.M. Hirst, M.M. Kushad, J. Masabni, E. Meilke, R. Moran, C.A. Mullins, M.L. Parker, R.L. Perry, J.P. Privé, G.L. Reighard, T.L. Robinson, C.R. Rom, T. Roper, J.R. Schupp, E. Stover. 2006. Performance of ‘Gala’ trees on 18 dwarfing rootstocks: ten-year summary of the 1994 NC-140 rootstock trial. *J. Amer. Pom. Soc.* 60(2): 69-83.

Marini, R.P., B.H. Barritt, G.R. Brown, J.A. Cline, W.P. Cowgill, R.M. Crassweller, P.A. Domoto, D.C. Ferree, J.M. Garner, G.M. Greene, C.R. Hampson, P.M. Hirst, M.M. Kushad, J. Masabni, E. Meilke, R. Moran, C.A. Mullins, M.L. Parker, R.L. Perry, J.P. Privé, G.L. Reighard, T.L. Robinson, C.R. Rom, T. Roper, J.R. Schupp, E. Stover. 2006. Performance of ‘Gala’ apple on four semi-dwarf rootstocks: a ten-year summary of the 1994 NC-140 rootstock trial. *J. Amer. Pom. Soc.* 60(2): 58-68.

Reighard, G.L., R. Andersen, J. Anderson, W. Autio, T. Beckman, T. Baker, R. Belding, G. Brown, P. Byers, W. Cowgill, D. Deyton, E. Durner, A. Erb, D. Ferree, A. Gaus, R. Godin, R. Hayden, P. Hirst, S. Kadir, M. Kaps, H. Larsen, T. Lindstrom, N. Miles, F. Morrison, S. Myers, D. Ouellette, C. Rom, W. Shane, B. Taylor, K. Taylor, C. Walsh, and M. Warmund. 2004. Eight-year performance of 19 peach rootstocks at 20 locations in North America. *J. Amer. Pom. Soc.* 58(4):174-202.

Robinson, T.L., L. Andersen, A. Azarenko, B.H. Barritt, G.R. Brown, J.A. Cline, R.M. Crassweller, P.A. Domoto, C. Embree, A. Fennell, D.C. Ferree, E. Garcia, A. Gaus, G.M. Greene, C.R. Hampson, P.M. Hirst, E. Hoover, S. Johnson, M.M. Kushad, R. Marini, R. Moran, C.A. Mullins, M.L. Parker, R.L. Perry, J.P. Privé, G.L. Reighard, C.R. Rom, T. Roper, J.R. Schupp, E. Stover. 2004. Performance of Cornell-Geneva rootstocks across North America in multi-location NC-140 rootstock trials. *Acta Hort* 658(1) : 241-245.

Shupert, D., A.P. Smith, J. Janick, P.B. Goldsbrough and P.M. Hirst. 2004. Segregation of scab resistance in three apple populations: molecular marker and phenotypic analysis. *HortScience* 39(6): 1183-1184.

Hoover, E., N. De Silva, S. McCartney and P. Hirst. 2004. Bud development and floral morphogenesis in four apple cultivars. *J. Hortic. Sci and Biotech.* 79: 981-984.

Hirst, P.M. 2002. Frost damage does not predispose apple fruitlets to the effects of chemical thinners. *Hort Technology* 12(1): 1-3.

Autio, W.R., J.L. Anderson, J.A. Barden, G.R. Brown, R.M. Crassweller, P.A. Domoto, W.A. Erb, D.C. Ferree, A. Gaus, P.M. Hirst, C.A. Mullins, and J.R. Schupp. 2001. Performance of 'Golden Delicious', 'Jonagold', 'Empire', and 'Rome Beauty' apple trees on five rootstocks over ten years in the 1990 NC-140 apple cultivar/rootstock trial. *J. Amer. Pom. Soc.* 55(3):131-137.

Autio, W. R., J. L. Anderson, J. A. Barden, G. R. Brown, R. M. Crassweller, P. A. Domoto, A. Erb, D. C. Ferree, A. Gaus, P. M. Hirst, C. A. Mullins, and J. R. Schupp. 2001. Location affects performance of 'Golden Delicious', 'Jonagold', 'Empire', and 'Rome Beauty' apple trees on five rootstocks over ten years in the 1990 NC-140 cultivar/rootstock trial. *J. Amer. Pom. Soc.* 55(3):138-145.

Domoto, P.A., W.R. Autio, G.R. Brown, D.C. Ferree, P.M. Hirst, C.A. Mullins and J.R. Schupp. 2001. Blackheart injury in 'Golden Delicious', 'Jonagold', 'Empire', and 'Rome Beauty' apple trees on five rootstocks over ten years in the 1990 NC-140 cultivar/rootstock trial. *J. Amer. Pom. Soc.* 55(3):146-153.

Hirst, P.M., W.R. Autio, J.A. Barden, G.R. Brown, R.M. Crassweller, P.A. Domoto and J.R. Schupp. 2001. Performance of trees in the 1990 NC-140 cultivar/rootstock planting: additional cultivars and rootstocks. *J. Amer. Pom. Soc.* 55(3):178-184.

McArtney, S.J., E.M. Hoover, P.M. Hirst and I.R. Brooking. 2001. Seasonal variation in the onset and duration of flower development within apple buds cv. 'Royal Gala'. *J. Hort Sci and Biotech.* 76(4): 536-540.

Rieghard, G.L., J.L. Anderson, R. Anderson, W. Autio, T. Beckman, R. Belding, G. Brown, W. Cowgill, D. Deyton, E. Durner, A. Erb, A. Gaus, P. Hirst, M. Kaps, N. Miles, F. Morrison, S. Myers, R. Perry, C.R. Rom, W. Shane, B. Taylor, K. Taylor, C. Walsh, and M. Warmund. 2001. Five-year performance of 19 peach rootstocks at 20 sites in North America. *Acta Hort.* 557: 97-102.

Hirst, P.M. and NC-140 cooperators. 2001. Early performance of 'Gala' on 18 dwarf and 4 semi-dwarf rootstocks growing at 24 sites in North America. *Acta Hort.* 557: 199-205.

Autio, W.R., J.L. Anderson, J.A. Barden, G.R. Brown, R.M. Crassweller, L.D. Tukey, P.A. Domoto, W.A. Erb, F. Morrison, D.C. Ferree, A. Gaus, P.M. Hirst, R.A. Hayden, C.A. Mullins, J.R. Schupp. 2001. Rootstock and scion interact to affect apple tree performance: results from the 1990 NC-140 cultivar/rootstock trial. *Acta Hort.* 557: 41-46.

### **Book Chapter**

Hirst, P.M. 2003. Flower bud formation, pollination and fruit set. *In: Concise Encyclopedia of Temperate Zone Tree Fruits.* Eds: T.A. Baugher and S. Singha. Hawthorn Press, New York.

*Non-refereed papers and reports (last 5 years)*

Robinson, T.L., L. Andersen, A. Azarenko, B.H. Barritt, G.R. Brown, J.A. Cline, R.M. Crassweller, P.A. Domoto, C. Embree, A. Fennell, D.C. Ferree, E. Garcia, A. Gaus, G.M. Greene, C.R. Hampson, P.M. Hirst, E. Hoover, S. Johnson, M.M. Kushad, R. Marini, R. Moran, C.A. Mullins, M.L. Parker, R.L. Perry, J.P. Privé, G.L. Reighard, C.R. Rom, T. Roper, J.R. Schupp, E. Stover. 2002. Performance of Cornell-Geneva rootstocks in the North American NC-140 rootstock trials. *Compact fruit Tree* 35(4): 99-102.

Perry, R., P. Hirst, W. Cowgill and J. Clements. 2002. New apple rootstocks promising for commercial growers. *The Fruit Growers News*. May 2002: 6-8.

Foster, R.E., P.C. Pecknold, B. Bordelon and P.M. Hirst. 2001. Managing pests in home fruit plantings. *Purdue extension bulletin*. 23p.