

A Life in Horticulture and Plant Breeding: The Extraordinary Contributions of Jules Janick

Irwin Goldman

Department of Horticulture, University of Wisconsin-Madison,
Madison, WI

Rodomiro Ortiz

Swedish University of Agricultural Sciences, Department of Plant
Breeding, Sweden

ABSTRACT

This chapter discusses Jules Janick, whose career has been intertwined with enormous changes in horticultural science and plant breeding. More than any other person in the U.S. in the last 60 years, Jules Janick has doggedly brought horticulture into the scientific realm. Jules Janick was the editor of fourteen volumes of *HortScience* from 1970 to 1983, and eight volumes of the *Journal of the American Society for Horticultural Science* from 1976 to 1983. He has edited ten volumes of *Acta Horticulturae* for the International Science of Horticultural Science (ISHS), and two volumes of *Scripta Horticulturae*. He also founded and single-handedly edited forty volumes of *Plant Breeding Reviews* and 43 volumes of *Horticultural Reviews*, which stand as an extraordinary accomplishment in twentieth century horticulture. Many of his texts still form the foundation for introductory horticulture and crop science courses offered around the world. Janick is also the co-editor, with James Moore, of a number of volumes on fruit breeding, including *Advances in Fruit Breeding and Methods in Fruit Breeding*. Janick holds six utility patents and 23 plant patents, and one Plant Variety Protection (PVP) certificate. Professor Janick has been a faculty member at Purdue University for over sixty years.

KEYWORDS: *Acta Horticulturae*; *Advances in Fruit Breeding*; crop science; *HortScience*; Jules Janick; *Methods in Fruit Breeding*; plant breeding

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ABBREVIATIONS

- ASHS American Society for Horticultural Science
 ISHS International Society for Horticultural Science
 PRI Purdue- Rutgers-Illinois Disease Resistant Apple Breeding Program
 PVP Plant Variety Protection

I. INTRODUCTION

The famous industrialist Francis Cabot Lowell (1775–1817) said, ‘One lifetime is never enough to accomplish one’s horticultural goals. If a garden is a site for the imagination, how can we be very far from the beginning?’ Lowell could have easily been speaking about Jules Janick, whose career has been intertwined with enormous changes in horticultural science and plant breeding.

At age 85, Janick seems driven to continue pursuing his goals nonetheless, leaving us with an embarrassment of riches, for which the disciplines of horticulture and plant breeding owe him an enormous debt. After 40 years of serving as the editor of *Plant Breeding Reviews* and *Horticultural Reviews*, Jules has turned over the editorship of these extraordinary publications, providing a perfect opportunity to reflect on his life and career, and on the work that is encompassed by

a prodigious intellectual output which is unlikely ever again to be equalled by a single individual.

Geneticist Chad Finn, in a letter of recommendation for Professor Jules Janick for a Morrill award at Purdue University, commented that the visionary 1862 Morrill act compelled 'education in agriculture, without excluding classical studies'. This landmark piece of legislation signed by President Abraham Lincoln, which laid the groundwork for US land grant universities, could not have found a more adept practitioner than Jules Janick who, for more than 60 years, has exemplified the best spirit of the land grant university and its tripartite mission of teaching, research and service. Janick has combined his passion for agricultural science with history, fine arts, anthropology, geography, language and letters, to become, without question, among the most well-known horticulturists and plant breeders of modern times.

More than any other person in the last 60 years, Jules Janick has doggedly brought horticulture into the scientific realm. Through his own research and teaching but, even more significantly, through his voluminous editing, writing, speaking, and organizing, he has almost single-handedly collected and produced a repository for horticultural and plant breeding research, practice, and impacts. For many years, Janick served as the editor for both major US horticultural journals, *Journal of the American Society for Horticultural Science* and *HortScience*, as well as founding and editing *Horticulture Reviews* and *Plant Breeding Reviews*. Through these publications, and many others, Janick helped US horticulturists communicate and articulate the scientific advances that have come to define the field today.

Known for his demanding, yet inspiring, editorial style, Janick was able to coax, cajole, and motivate scientists from a wide variety of backgrounds, perspectives, and specialties to articulate their expertise in writing. His efforts leave our disciplines with a treasure trove of insight, and with information that would have otherwise been lost or simply never documented.

In addition to these pursuits, Janick has a deep interest in iconography, art and history, with special reference to fruits and vegetables, crop domestication and crop origins. Janick's writings have explored Caravaggio's fruits, the festoons by Giovanni Martini da Udine that decorate the residence of Agostino Chigi (now known as the Farnesina Palace in Rome), the Cupid and Psyche ceiling paintings of Raphael Sanzio and the vegetables and fruits of Juan Sánchez Cotán, the strange 16th century manuscript *Histoire Naturelle des Indes* (The Drake Manuscript), the unicorn tapestries, and the herbals based on Pedanius Dioscorides. Janick and colleague Arthur O. Tucker are in the process of unravelling the famous Voynich manuscript.

Though critically important to the development of the USA, horticulture was considered both a necessity and a hobby, but was not necessarily recognized as a scientific enterprise. US horticulture was not formally constituted in a professional society until 1903, but strong biases about the role of horticultural science in the context of modern scientific inquiry persisted (Janick and Goldman, 2003).

The renowned educator, plant breeder, and visionary Liberty Hyde Bailey said, upon the 50th year of the founding of the American Society for Horticultural Science: *'This society was formed of necessity. There was no meeting ground within the framework of state or local horticultural societies for the scientists – no place for him and his colleagues to meet. That's why the Society for Horticultural Science was born. To many botanists I was not a scientist. I didn't talk just about the influence of light on plant growth. I talked about its influence on beans. I didn't talk about factors involving plant breeding, I talked about the problems and results of breeding squashes. I talked about the need for scientific work on horticultural problems. But it was not considered a science. The botanist spoke of pure science as if some science was impure. Fifty years ago knowledge from the applied studies was not acceptable to the botanists because it was not botany. And in a sense they were right. It was horticulture, the opening of a door to a new dawn'* (Howlett, 1953; cited in Janick and Goldman, 2003).

Janick became an active, professional horticulturist 51 years into the society's formal founding, and has played a major role in its development ever since. Bailey, also a prodigious writer, speaker, and educator, would no doubt have been extremely proud of Janick, had the former had the chance to know the latter's contributions. Interestingly, Janick listened to Bailey speak to his horticulture class while an undergraduate at Cornell. Bailey – who was born in 1851 and died in 1954 – and Janick, whose career as a faculty member began in 1954 and continues today at full steam, remarkably span the entire breadth of scientific horticulture and plant breeding in the US. They should be considered among the greatest educators and synthesizers of the modern era.

One of us (IG) has a personal connection with Jules Janick through an early horticultural experience. Long a fan of upper Midwestern US apples, IG have always sought an apple cultivar known as 'Co-op 22' or 'Jonafree.' This thick-skinned, tart, juicy, and crisp apple resulted from a pedigree that included Jonathan, Red Spy, Rome Beauty and Golden Delicious. It was developed in the 1960s at the University of Illinois Agricultural Experiment Station in Urbana, Illinois, through the co-operative apple breeding program at Purdue University, Rutgers University, and the University of Illinois. Jules Janick was the Purdue member of this apple breeding consortium.

IG first learned about this project while an undergraduate student at Illinois, taking an introductory horticulture course from Robert M. Skirvin, who had been a graduate student with Jules at Purdue. He first tasted the cultivar from orchards in Wisconsin, and loved it ever since; IG still picks a bushel of this cultivar every October in Wisconsin. Although IG didn't fully appreciate it then, the variety is immune to apple scab and can, therefore, be sustainably grown in the upper Midwestern USA. Many years later, he met Jules Janick and was amazed by the sheer scope of his horticultural output, his encyclopaedic knowledge of the field, and the way he was able to effortlessly and captivatingly weave the arts and humanities into horticultural science. IG learned then that apple breeding was one of only many directions his career has taken.

Jules Janick (Figures 7.1, 7.2, 7.3) was born in 1931 in New York City and obtained his B.S. degree in agriculture from Cornell University in 1951. He married Shirley Reisner in 1952. Moving to Purdue University, Jules obtained his M.S. and Ph.D. degrees in 1952 and 1954, respectively,



Figure 7.1. Professor Jules Janick.



Figure 7.2. Jules Janick in 1945 at Victory Farm Corps, obtaining agricultural training to enter Cornell University.



Figure 7.3. Jules Janick with 'GoldRush' apple.

in genetics and breeding. He was an assistant professor of horticulture at Purdue from 1956–1959, an associate professor from 1959–1963, and a professor since 1963. In 1988, he became the James Troop Distinguished Professor of Horticulture, a title he holds to this day. Jules completed sabbatical leaves at University College, London in 1962 and in 1985–1986, University of Hawaii in 1969, and University of Pisa, Italy in 1985. He is among the most decorated horticulturists in the US, receiving numerous commendations, honours, and awards from a range of organizations.

II. HONORS AND COMMENDATIONS

Janick has received four honorary degrees: University of Bologna (1990), the Technical University of Lisbon (1994), the Hebrew University of Jerusalem (2007), and University of Agricultural Science and Veterinary Medicine Cruj-Napoca, Romania (2010) (Table 7.1). He served as the President of the American Society for Horticultural Science (ASHS) in 1986–87 and was inducted in the ASHS Hall of Fame in 2009. He is the recipient of the Wilder medal from the American Pomological Society (1996), the Milo Gibson award of the of the North American Fruit Explorers (2004), the career award from the American Association of Industrial Crops (2006), and the lifetime award of the National Association of Plant Breeders (2011). He is a Corresponding Member of the Italian Academy of Agriculture, and a Fellow of ASHS, International Society for Horticultural Science, the American Association for the Advancement of Science, and the Portuguese and Romanian Horticultural Societies.

III. STUDENTS AND TEACHING

In addition to teaching horticulture and fruit breeding to thousands of undergraduate and graduate students, Jules Janick's textbooks on horticulture have had an enormous impact on the development of horticulture around the world. Janick has been on the faculty of the Department of Horticulture at Purdue since 1954, making him the longest-serving academic horticulturist in the modern era. Over 63 years, Janick has taught courses in Science and Communication, History of Horticulture, Literature of Horticulture, Genetics, Plant Breeding, Pomology, Tropical Horticulture, and Plant Propagation at Purdue University. In conjunction with his long-time colleague Anna L. Whipkey, Janick has developed two distance education courses, *History of Horticulture* and *Tropical Horticulture*, which now reach more than 500 students per year.

Table 7.1. Honours and Commendations of Professor Jules Janick.**Honorary Degrees**

- D.S. Agr (Hon) University of Bologna - Agricultural Science, 1990
- Doctor Honoris Causa, Technical University of Lisbon, 1994
- Doctor Philosophiae, Honoris Causa, Hebrew University of Jerusalem, 2007
- Doctor Honoris Causa, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania, 2010

Honours, Awards, Commendations

- Sigma Xi – 1954
- Paul Howe Shepard Award, American Pomological Society, 1960 and 1970
- Marion Meadows Award, American Society for Horticultural Science, 1971
- Gamma Sigma Delta, 1973
- Fellow of the American Society for Horticultural Science, 1976
- Stark Award, American Society for Horticultural Science, 1978
- Wilson Popenoe Award, American Society for Horticultural Science, 1980
- Kenneth Post Award, American Society for Horticultural Science, 1981
- Fellow, Portuguese Horticultural Association (Horticologio de Honra, Associacao Portuguesa de Horticultura), 1981
- Stark Award, American Society for Horticultural Science, 1982
- N. F. Childers Award (graduate teaching), American Society for Horticultural Science, 1982
- Wilder Certificate of Recognition, American Pomological Society, 1984
- Vegetable Publication Award, American Society for Horticultural Science, 1986
- President, American Society for Horticultural Science, 1986-1987
- Fellow, American Association for the Advancement of Science, 1988
- James Troop Distinguished Professorship in Horticulture, 1988
- Phi Kappa Phi, 1994
- Wilder Silver Medal, American Pomological Society, 1996
- Indiana Horticultural Society Recognition Award (Golden Apple), 1996
- B.Y. Morrison Lecturer, United States Department of Agriculture, 1997
- Commendation resolution, American Pomological Society, 1998
- Spencer A. Beach Lecturer, Iowa State University, Ames, Iowa, 2000
- Horticultural Writing Award, American Horticultural Society, Alexandria, Virginia, 2001
- Group Honor Award for Excellence, USDA, 2001
- Certificate of Appreciation, CSREES, 2001
- Fruit Cultivar Award (Prima), American Society for Horticultural Science, 2002
- Outstanding Service Award, American Pomological Society, 2002
- ASHS Distinguished International Horticulturist, Career Award, 2003
- ASHS Tex Frazier Lecturer, 100th Anniversary of ASHS, 2004
- Fulbright Distinguished Lecturer, University of Pisa, 2004
- Corresponding Member, Academia Nazionale di Agricoltura (Italian National Academy of Agriculture), 2004
- Milo Gibson Award, North American Fruit Explorers, 2004
- Distinguished Service Award, Indiana Horticultural Society, 2005
- Kermit A. Olson Memorial Lecturer, Department of Horticultural Science, University of Minnesota, St. Paul, March 23, 2005
- Dermot Coyne Memorial Lecturer, Lincoln, Nebraska, Sept. 29 and 30, 2005
- Fellow, International Society for Horticultural Science, 2006

Table 7.1. (Continued)

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- Certificate of Appreciation, International Horticultural Congress, Seoul Korea, 2006
 - Patent Recognition: H2-169 Pear and Co-op 39 Apple, Purdue University, 2006
 - A.E. Thompson Career Award of the Association for the Advancement of Industrial Crops. San Diego, California, 2006
 - Donald N. Maynard Endowed Lecturer, University of Connecticut, Storrs, 2006
 - À titre de conférencier de prestige pour l'année 2007–2008. Centre de recherche en horticulture, Université, Laval, Quebec City, Canada, 2008
 - ASHS Horticulture Hall of Fame, 2009
 - Gold Medal, Dr.Prem Nath Agricultural Science Foundation, International Conference on Horticulture, Bangalore India, 2009
 - Patent Recognition, Purdue University, 2010
 - Recognition, Purdue-Brazil Project, 2010
 - Honorary Member, International Society for Horticultural Science. August 24, 2010
 - Outstanding Alumni Award, Cornell University, College of Agriculture and Life Sciences, 2010
 - Lifetime Achievement Award. National Association of Plant Breeders. May 23, 2011
 - Fruit Cultivar Award (GoldRush), American Society for Horticultural Science, 2011
 - Patent Recognition, 'Adagio' Arugula, Purdue University, 2011
 - Finalist. Morrill Award, Purdue University, 2012
 - H. Marc Cathey Award. American Horticulture Society, 2014
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In addition to his courses at Purdue, he lectured in Portuguese in plant breeding, advanced genetics and cytogenetics, and seed production during a two-year appointment at the Rural University of Minas Gerais, Brazil, and has taught history of horticulture at the Scuola Superiore Sant'Anna, University of Pisa, as a Fulbright Distinguished Lecturer. Janick has mentored 17 postdoctoral associates, 12 M.S. and 18 PhD students at Purdue, many of whom have gone on to teach, conduct research, and serve the horticultural profession in a wide variety of occupations and leadership roles (Table 7.2).

IV. EDITORIAL WORK

Jules Janick was the editor of fourteen volumes of *HortScience* from 1970 to 1983, and eight volumes of the *Journal of the American Society for Horticultural Science* from 1976 to 1983 (Table 7.3). Note that, for seven years, Janick simultaneously edited *both* of these formidable journals, an accomplishment unlikely to be equalled. He is the founder and (for 40 years) editor of both *Horticultural Reviews* (43 volumes since 1979) and *Plant Breeding Reviews* (40 volumes since 1983). From 2002 to 2011 he served as the science editor for nine volumes of *Chronica Horticulturae*, and has helped make this publication into a widely recognized high-impact forum for world horticulture.

Table 7.2. Postdoctoral associates, graduate students, and theses supervision.**Postdoctoral Associates**

P. L. Pfahler (1957)	Daniel C. Wright (1979–1981)	Yong-Hwan Kim (1986–7, 1988–9)
J. Ellis (1958–1959)	Andrzej Kononowicz (1981–1983)	Hark-Bong Park (1987–1988)
S. Bose (1960)	Halina Kononowicz (1981–1983)	Jehoshua Saranga (1989–1990)
Muneo Iizuka (1960–1962)	Shankar Singh (1982–1983)	Antonio Figueira (1993)
Chi Won Lee (1977)	Sherry L. Kitto (1984)	Jorge F.S. Ferreira (1995)
Valerie Creaser Pence (1977–1980)		

Graduate Students

MS	PhD
D. L. Mahoney	L. D. Topoleski
S. S. Thompson	W. B. Sherman
Luis Mimbella Leyva	E. C. Tigchelaar
J. Pelluzio de Campos	R. L. Fery
E. C. Tigchelaar	C.W. Fowler
R. L. Bell	H. G. Hughes
Claire Sawyers	R. M. Skirvin
Rebecca Goetz	Chi Won Lee
Marcos Paiva	Catherine Lundergan
Yi-Chang Wang	R. L. Bell
James Quinn	R. L. Scorza
Christiane Cabral-Velho	Marcos Paiva
Les Frey	Sherry L. Kitto
	Hamid M. Elhag
	Yi-Chang Wang
	Antonio Figueira
	Jorge F.S. Ferreira

Theses Supervised

- Donald L. Mahoney (1958). Cytogenetics of sex determination in diploid-triploid crosses in *Spinacia oleracea* L. MS Thesis.
- Samuel S. Thompson, Jr (1961). Methods of evaluation of resistance to fireblight of pear and apple. MS Thesis
- Edward C. Tigchelaar (1962). Biochemical and genetic studies on the inheritance of color in eggplant (*Solanum melongena* L.). MS Thesis
- Leonard Daniel Topoleski (1962). Graft-induced alteration in *Solanum melongena*. PhD Thesis
- Wayne Bush Sherman (1966). Evaluation and inheritance of fruit size in strawberry. PhD Thesis
- Edward C. Tigchelaar (1966). Genetics and photocontrol of anthocyanin colorative in eggplant (*Solanum melongena* L.). PhD Thesis
- Richard L. Fery (1970). Crop response to population pressure. PhD Thesis
- Charles Wayne Fowler (1972). Feasibility studies for chromosome reduction in strawberry. PhD Thesis

Table 7.2. (Continued)

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- Harrison G. Hughes (1974). Production of polyhaploids in the cultivated strawberry. PhD Thesis
 - Robert Michael Skirvin (1975). Tissue culture variation in geranium. PhD Thesis
 - Richard L. Bell (1975). Fireblight resistance and fruit quality in pear. MS Thesis
 - Chi Won Lee (1977). Genetics and physiology of cleistogamy in *Salpiglossis sinuata* L. PhD Thesis
 - Catherine Lundergan (1978). *In vitro* propagation of apple. PhD Thesis
 - Richard L. Bell (1978). Breeding and genetic studies in pear (*Pyrus* spp.). PhD Thesis
 - Ralph Scorza (1979). *In vitro* flowering of *Passiflora suberosa* L. PhD Thesis
 - Marcos Paiva (1979). The relation in leaf pubescence and European Red Mite resistance in apple. MS Thesis
 - Yi-Chang Wang (1981). Factors affecting precocious germination in asexual embryos of *Theobroma cacao* L. MS Thesis
 - Marcos Paiva (1982). *In vivo* and *in vitro* production of alkaloids in *Theobroma cacao* L. PhD Thesis
 - Sherry L. Kitto (1984). *In vitro* production of seeds by encapsulation of asexual embryos. PhD Thesis
 - Hamid Mohamed Elhag (1985). *In vitro* studies of asexual embryogenesis in *Theobroma cacao* L. PhD Thesis
 - Yi-Chang Wang (1985). *In vitro* production of liquid wax of jojoba (*Simmondsia chinensis*) via asexual embryos. PhD Thesis
 - James Quinn (1987). Zygotic and somatic embryogenesis in *Borago officinalis* L. MS Thesis
 - Christiane Cabral-Velho (1990). Density separation of plant embryos. MS Thesis
 - Les Frey (1990). *In vitro* regulation of carnation. MS Thesis
 - Antonio Figueira (1992). Biotechnological studies in *Theobroma cacao* L.: Micropropagation, characterization of polysaccharides, and estimation of genetic diversity using molecular markers. PhD Thesis
 - Jorge F.S. Ferreira (1994). Production and detection of artemisinin in *Artemisia annua* L. PhD Thesis
-

Janick has been a leader in the field of new crops, and edited six volumes of proceedings of new crop conferences since 1990 that have helped characterize and organize a trove of information on world-wide crops. The development of NewCrop, a website on world crops (www.hort.purdue.edu/newcrop), has become a major world resource for this information, with millions of page views and thousands of downloads annually. He has edited ten volumes of *Acta Horticulturae* for the International Science of Horticultural Science (ISHS), and two volumes of *Scripta Horticulturae*. He served as editor-in-chief for ASHS Press. Janick has coedited the CABI *Encyclopaedia of Fruit and Nuts* (2006) and has served on the editorial board of the award-winning three-volume *Food and Culture* (2003).

Without question, two of Janick's greatest professional accomplishments are the founding of the two review journals mentioned above: *Horticultural Reviews* (in 1979) and *Plant Breeding Reviews* (in 1983).

Table 7.3. Journal volumes and reviews where Jules Janick has served as editor.

HortScience	Vol 17, 456 p. 1995	Vol 15, 395 p. 1997
Vol 5, 621 p. 1970	Vol 18, 379 p. 1997	Vol 16, 340 p. 1998
Vol 6, 686 p. 1971	Vol 19, 441 p. 1997	Vol 17, 338 p. 2000
Vol 7, 649 p. 1972	Vol 20, 341 p. 1997	Vol 18, 323 p. 2000
Vol 8, 576 p. 1973	Vol 21, 279 p. 1997	Vol 19, 306 p. 2000
Vol 9, 692 p. 1974	Vol 22, 324 p. 1998	Vol 20, 248 p. 2001
Vol 10, 724 p. 1975	Vol 23, 366 p. 1999	Vol 21, 326 p. 2001
Vol 11, 724 p. 1976	Vol 24, 460 p. 2000	Vol 22, 445 p. 2003
Vol 12, 721 p. 1977	Vol 25, 287 p. 2001	Vol 23, 365 p. 2004
Vol 13, 867 p. 1978	Vol 26, 348 p. 2001	Vol 24 (Part 1), 361 p. 2004
Vol 14, 935 p. 1979	Vol 27, 381 p. 2001	Vol 24 (Part 2), 290 p. 2004
Vol 15, 960 p. 1980	Vol 28, 482 p. 2003	Vol 25, 344 p. 2005
Vol 16, 947 p. 1981	Vol 29, 403 p. 2003	Vol 26, 383 p. 2006
Vol 17, 1022 p. 1982	Vol 30, 526 p. 2004	Vol 27, 374 p. 2006
Vol 18, 1058 p. 1983	Vol 31, 414 p. 2005	Vol 28, 342 p. 2007
	Vol 32, 478p. 2006	Vol 29, 446 p. 2007
Journal of the American Society for Horticultural Science	Vol 33, 450p. 2007	Vol. 30, 479p. 2008
Vol 101, 732 p. 1976	Vol 34. 522p. 2008	Vol. 31, 420p. 2009
Vol 102, 840 p. 1977	Vol 35. 529p. 2009	Vol. 32, 380p. 2009
Vol 103, 864 p. 1978	Vol 36, 371p. 2010	Vol. 33, 386p. 2010
Vol 104, 916 p. 1979	Vol 37. 399p., 2010	Vol. 34, 378p. 2011
Vol 105, 960 p. 1980	Vol 38, 429p. 2011	Vol. 35, 407p. 2012
Vol 106, 840 p. 1981	Vol 39, 457p. 2012	Vol. 36, 535p. 2012
Vol 107, 1202 p. 1982	Vol 40, 434p. 2012	Vol. 37, 379p. 2013
Vol 108, 1106 p. 1983	Vol 41, 541p. 2013	Vol. 38, 314p. 2014
	Vol 42. 487p. 2014.	Vol. 39. 461p. 2015
	Vol 43 397p. 2015	Vol. 40. 369p 2016
	Vol 44, 437p. 2016	
Horticultural Reviews	Plant Breeding Reviews	Chronica Horticulturae
Vol 1, 485 p. 1979	Vol 1, 397 p. 1983	Vol. 43, 2003
Vol 2, 544 p. 1980	Vol 2, 327 p. 1984	Vol. 44, 2004
Vol 3, 468 p. 1981	Vol 3, 442 p. 1985	Vol. 45, 2005
Vol 4, 281 p. 1982	Vol 4, 407 p. 1986	Vol. 46, 2006.
Vol 5, 410 p. 1983	Vol 5, 446 p. 1987	Vol 47, 2007
Vol 6, 427 p. 1984	Vol 6, 406 p. 1989	Vol 48, 2008
Vol 7, 570 p. 1985	Vol 7, 230 p. 1989	Vol 49, 2009
Vol 8, 392 p. 1986	Vol 8, 388 p. 1990	Vol 50, 2010
Vol 9, 445 p. 1987	Vol 9, 402 p. 1992	Vol 51, 2011
Vol 10, 446 p. 1988	Vol 10, 374 p. 1992	
Vol 11, 470 p. 1989	Vol 11, 333 p. 1993	New Crop News
Vol 12, 509 p. 1990	Vol 12, 315 p. 1994	Spring 1991, Vol 1(1), p.8
Vol 13, 452 p. 1992	Vol 13, 383 p. 1995	Spring 1992, Vol 2(1), p. 8
Vol 14, 472 p. 1992	Vol 14, 381 p. 1997	Spring 1993, Vol 3(1), p. 8
Vol 15, 469 p. 1993		Spring 1994, Vol 4(1), p. 12
Vol 16, 406 p. 1994		Fall 1994, Vol 4(2), p. 12

Forty-four volumes of *Horticultural Reviews* have been published over the past 38 years, comprising 347 review articles and 18,936 pages (Warrington and Goldman, 2016). Over 700 contributors from around the world have participated in the production of these chapters, making this resource one of the most diverse and comprehensive ever produced in horticulture. Many of the major fruit, berry, nut, vegetable and ornamental species have been covered in significant review articles. Various aspects of horticultural crop management are well covered, with details on disease and pest management, plant nutrition, plant growth regulators, the influence of environment on crop growth, and many other subjects.

Forty volumes of *Plant Breeding Reviews* have been published over the past 33 years, featuring 316 review articles and 15,392 pages (Warrington and Goldman, 2016). Several volumes focus on a particular topic, such as the US National Plant Germplasm System (Volume 7), long-term selection (Vol. 24), and raspberry breeding (Vol. 32). Like *Horticultural Reviews*, some 700 scientists from around the world have contributed to the review articles in this series. The emphasis of the series is on plant breeding methodology and techniques, a fundamental understanding of crop genetics, and specific applications to major crops. Both publications include unique dedicatory chapters comprised of descriptive biographies of key individuals involved in horticultural science, plant breeding and genetics.

Both of these *Reviews* include extensive cumulative indices which makes it easy to search for specific topics. Taken together, these two *Reviews* form one of the most valuable repositories of state-of-the-art information in modern agricultural science.

V. BOOKS AND PROCEEDINGS

Many students are first introduced to horticulture and the plant sciences through the textbooks *Horticultural Science* and *Plant Science: An Introduction to World Crops*, first published in 1963, and 1969, respectively, with Jules Janick as the senior author (Table 7.4). *Horticultural Science* has gone through four editions and has been translated into Spanish, Portuguese, Arabic, and Hindi. *Plant Science: An Introduction to World Crops*, has gone through three editions.

These texts still form the foundation for many introductory horticulture and crop science courses offered around the world. Janick is also the co-editor, with James Moore, of a number of volumes on fruit breeding, including *Advances in Fruit Breeding* and *Methods in Fruit Breeding*.

Table 7.4. Books and proceedings written and edited by Jules Janick.

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- Jules Janick (1963). *Horticultural Science*. W. H. Freeman and Co., San Francisco. 463 p.
 - Jules Janick (1965). *Horticultura, Científica E Industrial*. (Spanish Translation of *Horticultural Science* by Dr. D. Horacio Marco Moll). Acribia Zaragoza, Spain. 564 p.
 - Jules Janick (1966). *A Ciência da Horticultura*. (Portuguese translation of *Horticultural Science* prepared by Bartholomeu da Costa Ribeiro and Jurema Soares Aroeira). USAID Brazil. 485 p.
 - Jules Janick, Robert W. Schery, Frank W. Woods, and Vernon W. Ruttan (1969). *Plant Science: An Introduction To World Crops*. W. H. Freeman and Co., San Francisco. 629 p.
 - Jules Janick, Robert W. Schery, Frank W. Woods, and Vernon W. Ruttan (1970). *Plant Agriculture, Readings from Scientific American*. W. H. Freeman and Co., San Francisco.
 - Jules Janick (1972). *Horticultural Science* (2nd ed.). W. H. Freeman and Co., San Francisco. 586 p.
 - Johan Hoff and Jules Janick. (1973). *Food: Readings from Scientific American*. W.H. Freeman and Co., San Francisco.
 - Jules Janick, Robert W. Schery, Frank W. Woods, and Vernon W. Ruttan (1974). *Plant Science: An Introduction To World Crops* (2nd ed.). W. H. Freeman and Co., San Francisco. 740 p.
 - Jules Janick and James N. Moore (ed, 1975). *Advances in Fruit Breeding*. Purdue University Press, West Lafayette, Indiana. 621 (Hindustani translation). Govind Ballam Agriculture University, Pantnajan (Nanital), India.
 - Jules Janick (1979). *Horticultural Science* (3rd ed.). W. H. Freeman and Co., San Francisco. 608 p.
 - Jules Janick, Robert W. Schery, Frank W. Woods, and Vernon W. Ruttan (1981). *Plant Science: An Introduction To World Crops* (3rd ed.). W. H. Freeman and Co., San Francisco. 868 p.
 - Jules Janick and J. N. Moore (eds, 1981). *Advances In Fruit Breeding* (Russian translation). Kopic, USSR.
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Advances in Fruit Breeding has been translated into Chinese, Russian, and Spanish. *Advances* was updated with a three-volume work called *Fruit Breeding*. Janick is the editor and collector of *Classic Papers in Horticultural Science* and a volume of American Society for Horticultural Science Presidential Addresses.

VI. RESEARCH

Some of Jules Janick's early scientific work concerned the genetics of sex determination in plants, including a study of heteromorphic sex chromosomes in spinach. Janick was an early investigator into somatic embryogenesis and plant propagation that results in seeds produced asexually. His work has included investigation of secondary metabolites, such as anthocyanins cucurbitacins and artemisinin. He has also investigated and bred several fireblight resistant pear cultivars, a delayed-bolting arugula cultivar, new tomato varieties for Brazil, and a pelargonium cultivar developed via somaclonal variation. Working with others in the Purdue-Rutgers-Illinois (PRI) apple breeding consortium, Janick has been part of the release of 21 scab-resistant apple

Table 7.5. Patents, plant patents, and plant variety protection certificates of Jules Janick.

US Utility Patent	
• 4,204,366 Method of non-agricultural production of cotyledons. 1980	• 4,359 Co-op 12 apple – 1979
• 4,291,498 Method for production of mature asexual cacao embryos, and product thereof. 1981	• 4,322 Co-op 13 apple – 1979 (Redfree)
• 4,301,619 Plant tissue produced by non- agricultural proliferation of cacao embryos. 1981	• 4,379 Honeysweet pear – 1979
• 4,426,808 Method of non-agricultural production of jojoba wax. 1984	• 4,499 Co-op 16 apple – 1980
• 4,545,147 Asexual embryogenesis of callus from <i>Theobroma cacao</i> L. 1985	• 4,633 Co-op 22 apple – 1981 (Jonafree)
• 4,615,141 Process for encapsulating asexual plant embryos. 1986	• 4,724 PRI 1773-8 apple – 1981 (McShay)
	• 5,584 Co-op 21 apple – 1985 (Dayton)
	• 6,268 Co-op 23 apple – 1986 (Williams' Pride)
	• 9,193 Co-op 30 apple – 1995 (Enterprise)
	• 9,392 Co-op 38 apple – 1995 (GoldRush)
	• 9,881 Co-op 32 apple – 1997 (Pristine™)
	• 12,323 Co-op 25 apple – 2001 (Scarlett O'Hara™)
	• 13,819 Co-op 29 apple – 2003 (Sundance™)
	• 13,871 Co-op 33 apple – 2003 (Pixie Crunch™)
	• 14,034 P448-2 pear – 2003 (Green Jade™)
	• 16,759 H2-169 pear – 2006 (Ambrosia™)
	• 16,662 Co-op 39 apple – 2006 (CrimsonCrisp™)
	• 20,437 Co-op 31 apple – 2009 (Winecrisp™)
US Plant Patent	
• 2,434 Prima apple – 1975	
• 3,488 Priscilla apple – 1975	
• 3,988 Sir Prize apple – 1976	
• 4,320 Co-op 14 apple – 1978	
• 4,321 Co-op 10 apple – 1979	
	PVP
	• 200400143 arugula – 2011 (Adagio™)

cultivars. He holds 23 plant patents, a plant variety protection certificate for the new arugula cultivar, and six US patents for work on somatic embryogenesis and related technologies.

A. Patents

Janick holds six utility patents and 23 plant patents, and one Plant Variety Protection (PVP) certificate (Table 7.5).

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- Robert E. Paull and Jules Janick (2008). Ginkgoaceae, *Ginkgo biloba* ginkgo. pp. 413–414. *Encyclopaedia of Fruits & Nuts*. CABI, UK.
- Jules Janick and Robert E. Paull (2008). Cola. spp., kola nuts. pp.683–684. *Encyclopaedia of Fruits & Nuts*. CABI, UK.
- Jules Janick (2015). *Agriculture: Origins of Agriculture in Egypt*. Springer Reference <http://www.springerreference.com/index/chapterdbid/395305> 9 Aug 2014 04:37© Springer-Verlag Berlin Heidelberg, 2014. 17 pp.

VII. PUBLIC ADDRESSES, INVITED SEMINARS AND SPEECHES

- Jan. 22, 1958. Strawberry Varieties for Indiana. Indiana Horticulture Society, Indianapolis, Indiana.
- Jan. 9, 1962. The Present State of Blight Resistant Pears. Indiana Horticultural Society, West Lafayette, Indiana.
- Feb. 1966. Evaluation of Pear Varieties for Indiana. Indiana Horticultural Society.
- Feb. 1966. Horticulture Brazilian Style. Indiana Horticultural Society.
- Feb. 1967. Five Scab Resistant Apple Selections Released for Grower Testing. Indiana Horticultural Society.
- Aug. 27, 1967. Pear Breeding. Fruit Breeding Symposium. Annual Meeting. Amer. Soc. Hort. Sci. College Station Texas.
- June 21, 1967. Sex Determination in Spinach. Seminar, University of Minnesota, St. Paul, Minnesota.
- May 1968. Fruit Size in the Strawberry. Strawberry Research Workers Conference. Beltsville, Maryland.
- Feb. 7, 1968. Response of Tomato Mutants to Population Pressure. Indiana Canning Raw Products Conference.
- Mar. 1969. Brazil: Its Agriculture and its People. Hawaiian Botanical Society, Oahu, Hawaii.
- Feb. 4, 1970. Tomato Population Studies. Indiana Raw Products Conference, Lafayette.

- Jan. 27, 1970. Prima – an Early Fall Red Apple with Resistance to Apple Scab. Trans. Indiana Horticultural Society.
- Jan. 28, 1970. Fruits Around the World. Banquet Address. Indiana Horticultural Society.
- Nov. 18, 1970. Response of Tomato to Population Pressure. Indiana Cannery Association, French Lick.
- Feb. 3, 1972. Sex Determination in Spinach. Seminar. University of Florida, Gainesville, Florida.
- Feb. 4, 1972. Competition and Plant Population. Seminar. Florida State University.
- Jan. 27, 1972. Introducing Priscilla. Indiana Horticultural Society.
- Feb. 13, 1973. Horticultural Publication. Seminar. University of Florida, Gainesville, Florida.
- March 22, 1973. Publish or Perish. Seminar. University of Guelph, Guelph, Ontario, Canada.
- March 21, 1973. Distribution of Fruit Size in Strawberry. Small Fruit Workers Conference. Wooster, Ohio.
- Oct. 16, 1973. Budgeting for Earth. Address at American Association of University Women, Bloomington, Indiana.
- Jan. 7, 1975. Tissue Culture and Crop Improvement. Seminar. Michigan State University, East Lansing, Michigan.
- Jan. 8, 1975. Publish or Perish – Is It Still True? Seminar. Michigan State University, East Lansing, Michigan.
- Jan. 29, 1975. Apple Production – East to West. 114th Annual Meeting Indiana Horticultural Society.
- Jan. 29, 1975. Scab Resistant Apples – A Report. ‘Prima’ and ‘Priscilla.’ 114th Annual Meeting of the Indiana Horticultural Society.
- July 22, 1975. Fruit Quality and Fireblight Resistance in Pears. Address presented before Fruit Breeding Symposium, Beltsville, Maryland.
- May 8, 1975. Horticulture and Horticulturists in a Time of Uncertainty. Address presented at Department of Horticulture, University of Minnesota, St. Paul, Minnesota.
- Dec. 29, 1975. Tissue Culture for Crop Improvement. Seminar. Hebrew University, Rehovoth Israel.
- March 23, 1976. Tissue Culture Induced Variation in Geranium. Seminar. Oregon State University, Corvallis, Oregon.
- Mar. 24, 1976. Publication and Horticulture. Oregon State University, Corvallis, Oregon.
- Feb. 17, 1976. Honeysweet Pear. Indiana Horticultural Society.
- Oct. 6, 1977. Is Sex Really Necessary: Tissue Culture in Crop Improvement. University of Idaho, Moscow.
- Oct. 7, 1977. Publish or Perish. Washington State University, Pullman, Washington.

- Oct. 17, 1977. Tissue Culture and Crop Improvement. University of Nebraska, Lincoln.
- Oct. 18, 1977. Publications from the Point of View of an Editor. University of Nebraska, Lincoln, Nebraska.
- Feb. 14, 1978. Micropropagation of Apple Trees. Indiana Horticultural Society.
- March 7, 1978. Tissue Culture in Horticultural Research. US Vegetable Breeding Laboratory, Charleston, South Carolina.
- July 17, 1978. Horticulture's Ancient Roots. Historical Address. Annual meeting of the American Society for Horticultural Science. Boston, Massachusetts.
- Oct. 2, 1978. History of Horticulture from the Artistic Record. Seminar. University of Illinois, Urbana, Illinois.
- Oct. 4, 1978. Is Sex Necessary? – Tissue Culture in Agriculture. Alpha Zeta-Gamma Sigma Delta Invitational Lecture. Purdue University, West Lafayette, Indiana.
- Oct. 19, 1978. Publish or Perish. Graduate Seminar. Ohio State University, Columbus, Ohio.
- Oct. 20, 1978. Horticulture, History, and the Artistic Record. Seminar. Ohio State University, Columbus, Ohio.
- March 26, 1979. Embryogenics: A New Agriculture? Horticulture Seminar. University of Arizona, Tucson, Arizona.
- March 26, 1979. Plant Sciences: Publish or Perish. Plant Science Seminar. University of Arizona, Tucson, Arizona.
- March 27, 1979. Horticulture's Ancient Roots. Horticultural Club Invitational Seminar. University of Arizona, Tucson, Arizona.
- Apr. 5, 1979. Is Sex Necessary? – Genetics, Cloning, and Other Tissue Cultures. Purdue University (A Day for Women).
- May 1, 1979. Small Journal Management: Financial and Editorial Considerations. Council of Biology Editors, Charlottesville, Virginia.
- Nov. 6, 1979. Tissue Culture and Crop Improvement. Campbell Soup Symposium, Camden, New Jersey.
- Dec. 3, 1979. Embryogenics: The New Agriculture. Department of Horticulture, University of Wisconsin, Madison, Wisconsin.
- Feb. 13, 1979. Horticulture's Ancient Roots. Horticulture and Tissue Culture. Western Canadian Society for Horticulture, Winnipeg, Canada.
- May 22, 1980. Embryogenics: A New Agriculture. Department of Vegetable Crops. University of California, Davis
- Aug. 21, 1980. The Contribution of Genetics to Modern Fruit Culture. International Symposium on Les Floralties 80, Montreal, Canada.
- Oct. 28, 1980. Publication and Horticulture. Department of Horticulture, Mississippi State University, Mississippi.

- Nov. 11, 1980. Tissue Culture Research. Pioneer Research Laboratory, Campbell Institute for Agricultural Research, Cinnaminson, New Jersey.
- Feb. 19, 1981. Embryogenics. University of Florida, Gainesville, Florida.
- Aug. 6, 1981. Breeding Pears for Fireblight Resistance. North American Fruit Explorers, Purdue University, West Lafayette, Indiana.
- Sept. 17, 1981. History of Horticulture. Colegio do Espirito Santo, University of Evora, Portugal.
- Sept. 22, 1981. History of Horticulture, Genetic Improvement of Pome Fruits, Tissue Culture and Embryogenics, Instituto Universitario de Tras-os-Montes e Alto Douro, Vila Real, Portugal.
- Sept. 23, 1981. History of Horticulture, Direccao Regional de Agricultura de Entre Douro e Minho, Vila do Conde, Povoas, Vairao Portugal.
- Sept. 24, 1981. Genetic Improvement in Horticulture. Escola Superior Agraria de Coimbra, Portugal.
- Sept. 29-30, 1981. Tissue Culture and Embryogenics, History of Horticulture. Escola Superior Agraria de Santarem, Portugal.
- Oct. 6, 1981. Tissue Culture and Embryogenics. Sede da Subregiao Sotavento, Tavira, Algarve, Portugal.
- Oct. 7, 1981. Tissue Culture and Embryogenics. Colegio do Espirito Santo, University of Evora, Portugal.
- Oct. 8, 1981. History of Horticulture. University of Lisbon, Portugal.
- Nov. 16, 1981. Pest Resistance in Horticultural Crops: Tomato and Apple. Research for Small Farms Special Symposium. Beltsville Agricultural Research Center, Beltsville, Maryland.
- Nov. 16, 1981. Embryogenics. Horticulture Seminar. The University of Maryland, University Park, Maryland.
- Nov. 17, 1981 Embryogenics. Appalachian Fruit Research Station, Kearneysville, West Virginia.
- Nov. 20, 1981. History of Horticulture, Embryogenics. North Carolina State University, Raleigh.
- Jan. 12, 1982. Horticulture: The Artistic Record. Indianapolis Museum of Art Horticultural Society, Indianapolis, Indiana.
- May 6, 1982. What Does a Professional Editor Do? Workshop. Council of Biology Editors, Louisville, Kentucky.
- Aug. 12, 1982. Horticultural Writing and Editing. The Marketing of Horticultural Information Workshop. American Society for Horticultural Science, Ames, Iowa.
- Nov. 8, 1982. Horticulture and the Artistic Record. Embryogenics – A New Agriculture? Virginia Polytechnic Institute and State University. Blacksburg, Virginia.

- Nov. 9, 1982. The Opportunities in Horticultural Writing and Editing. Virginia Polytechnic Institute and State University. Blacksburg, Virginia.
- Nov. 10, 1982. Publishing in HortScience and the Journal. Horticulture and the Artistic Record. Auburn University, Alabama.
- Nov. 11, 1982. Embryogenics – A New Agriculture? Tissue Culture and Crop Improvement. Auburn University, Alabama.
- Nov. 12, 1982. Genetic Improvement in Fruit Crops. Opportunities in Plant Genetics and Breeding. Auburn University, Alabama.
- Apr. 29, 1983. Embryogenics. Monsanto Corporation, St. Louis, Missouri.
- Jun. 1, 1983. Tissue Culture. University of Evora, Portugal.
- Jun. 8, 1983. Tissue Culture and Fruit Breeding. Portuguese National Fruit Station, Alcobaca, Portugal.
- Jun. 28, 1983. *In vitro* Production of Seeds. American Seed Research Foundation. American Seed Trade Association Convention, San Francisco, California.
- Aug. 15, 1983. Tissue Culture and Asexual Embryogenesis in Jojoba. American Society of Agronomy, Washington, D.C.
- Sept. 10, 1983. Embryogenics: Utilization of Embryogenic Structures for Commercial Synthesis. DNA Plant Technology Corporation, Orlando, Florida.
- Oct. 3, 1983. Food and the Origins of Agriculture. Telelecture to Food Science Class, Oregon State University, Corvallis, Oregon.
- Mar. 1, 1984. Applications of Genetic Engineering to Food Production. Indiana Section of the Institute of Food Technologists, Muncie, Indiana.
- Sept. 7, 1984. Discussant, Cellular Genetics Emerging Technologies: Applications to Biotechnology Product Development. DNA Plant Technology Scientific Advisory Board Meeting, Sept. 6–8, 1984, Philadelphia, Pennsylvania.
- Sept. 24, 1984. Embryogenics. Horticulture Seminar, University of Illinois, Urbana, Illinois.
- Sept. 7, 1985. Asexual Embryogenesis for Metabolite Production. Emerging Technologies: Application of Biotechnology to Product Development. DNA Plant Technology Advisory Board Meeting, New York, New York.
- Aug. 9, 1985. The Future of Tissue Culture in Horticultural Research. Ball Research Conference, St. Charles, Illinois.
- Nov. 6, 1985. New Agricultural uses for Somatic Embryogenesis. Istituto Sperimentali Frutticoltura, Rome, Italy.
- Nov. 12, 1985. New Agricultural Uses for Somatic Embryogenesis. Istituto di Produzione Vegetable della Universita degli Studi di Udine, Italy.

- Nov. 15, 1985. Advances in Embryogenesis. Disease Resistant Breeding of Apple and Pear. Istituto di Coltivazioni Arboree, Universita degli Studi, Bologna, Italy.
- Nov. 19, 1985. Agricultural Uses for Asexual Embryogenesis. Istituto di Coltivazioni Arboree della Universita degli Studi, Pisa, Italy.
- Nov. 21, 1985. Agricultural Uses of Somatic Embryos. Istituto di Coltivazioni Arboree. Universita degli Studi di Firenze, Florence, Italy.
- Jan. 24, 1986. Agricultural Uses of Somatic Embryogenesis. Kew Seminar, Jodrell Laboratory, Kew Gardens, England.
- Jan. 29, 1986. Metabolite Production via Somatic Embryos. Wolfson Institute of Biotechnology, University of Sheffield, England.
- Feb. 4, 1986. New Horticultural Applications for Tissue Culture. Departmental Seminar. Department of Horticulture. Wye College (University of London), Ashford, Kent.
- July 21, 1986. Tissue Culture of Herbs and Medicinals. 1st International Herb Growing and Marketing Conference, Lafayette, Indiana.
- Aug. 1, 1986. Somatic Embryogenesis in Cacao and Jojoba. CATIE, Turrialba, Costa Rica.
- Aug. 12, 1986. Publishing Research in Sociohorticulture. 22nd International Horticultural Congress, Davis, California.
- Feb. 24, 1987. Embryogenics: A New Horticulture. Plant & Soil Science Building Dedication Seminar. Michigan State University, East Lansing, Michigan.
- March 2, 1987. Synthetic Seed. Weyerhouser Corporation, Seattle, Washington.
- April 13, 1987. Introduction to 1st International Symposium on Horticulture and Human Health. Arlington, Virginia.
- April 24, 1987. Embryogenics, Horticulture Seminar. Ohio State University, Columbus, Ohio.
- April 29, 1987. Prospects for Genetic Improvement of Apple. The Summerland Research Station Commemorative Symposium. Summerland, British Columbia, Canada.
- July 22, 1987. John Gerard's Herball. 22nd International Herb Growing and Marketing Conference. Indianapolis, Indiana.
- September 8, 1987. Darwin-Wallace. Mendel's Rediscoverers. A question of Priority or Venality in Science. Charles Darwin Society. Purdue University, West Lafayette, Indiana.
- September 23, 1987. Biotechnology Applied to Cacao. CEPLAC. Itabuna, Brazil.
- September 28, 1987. Agricultural uses of somatic embryogenesis. Bioplanta. Campinas, Brazil.

- October 15, 1987. Embryogenics: Agricultural Uses of Somatic Embryos. Wisconsin Food Research Institute (University of Wisconsin). Chicago, Illinois.
- November 3, 1987. The Future of Horticulture. Florida State Horticulture Society. Orlando, Florida.
- November 11, 1987. Presidential Address. Horticulture, Science, and Society. American Society for Horticultural Science. Orlando, Florida.
- December 2, 1987. Lorenzo da Ponte: Mozart's Librettist. Jewish Studies. Purdue University, West Lafayette, Indiana.
- December 17, 1987. Embryogenics. Department of Pomology, University of California, Davis.
- January 14, 1988. Agricultural Uses of Somatic Embryogenesis. IAV Hassan II, Complexe Agadir, Agadir, Morocco.
- January 22, 1988. Apple Breeding. IAV Hassan II, Complexe Agadir, Agadir, Morocco.
- February 5, 1988. Agricultural Uses of Somatic Embryogenesis. IAV Hassan II, Rabat, Morocco.
- February 8, 1988. Introducing Jonafree and Redfree (E.B. Williams, F.H. Emerson, and Jules Janick). Indiana Horticultural Society. Indianapolis, Indiana.
- February 17, 1988. Somatic Embryogenesis. University Cady Ayyad, Faculty of Sciences, Agadir, Morocco.
- July 6, 1988. Publishing: Integral part of Science Research. Horticultural Research Institute of Ontario, Vineland, Canada.
- July 7, 1988. History of Horticulture Through the Artistic Record. Horticultural Research Institute of Ontario, Vineland, Canada.
- July 11, 1988. Apple Breeding: Successes and Failures. Horticultural Research Institute of Ontario, University of Guelph, Guelph, Canada.
- July 13, 1988. Embryogenics of Vegetable Crops. Horticultural Research Institute of Canada, Simcoe, Canada.
- September 29, 1988. Embryogenics. New York State Experiment Station, Cornell University, Geneva, New York.
- September 29, 1988. The Future of Horticultural Science. Department of Pomology and Vegetable Crops, Cornell University, Ithaca, New York.
- October 21, 1988. Horticulture in the Next Century. Department of Horticulture Centennial Celebration, University of Wisconsin, Madison.
- November 14, 1988. Horticulture: Past, Present, Future. Stokely USA, Milwaukee, Wisconsin.
- December 19-24, 1988. Course in Tissue Culture, Shaanxi Research Institute of Pomology, Yang Ling, People's Republic of China.
- December 20, 1988. In Vitro Production of Plant Metabolites via Embryo Culture. Shaanxi Research Institute of Pomology, Yang Ling, People's Republic of China.

- December 21, 1988. Synthetic Seed. Shaanxi Research Institute of Pomology, Yang Ling, People's Republic of China.
- December 22, 1988. Apple Breeding and Tissue Culture. Shaanxi Research Institute of Pomology, Yang Ling, People's Republic of China.
- December 31, 1988. Production of Synthetic Seed. Vegetable Research Center, Beijing, People's Republic of China.
- June 13, 1989. History of Horticulture via the Artistic Record. Istituto di Coltivazioni Arboree, Università degli Studi, Bologna, Italy.
- June 15, 1989. Production of Metabolic Products and Creation of Synthetic Seeds from Somatic Embryos. Istituto di Coltivazioni Arboree, Università degli Studi, Bologna, Italy.
- July 24, 1989. Synthetic Seed Technology. The Cell Culture Revolution: New Aspects in Matrices, Media and Methods. Bioneering, Philadelphia, Pennsylvania.
- September 19, 1989. Scab Resistant Apples. Interview with Kathleen Sullivan, ABC Good Morning America.
- January 9, 1990. About all the Scab Resistant Apple Cultivars. Five New Coop Selections for Testing. Indiana Horticultural Congress, Indianapolis (with Jeff Crosby).
- January 22, 1990. Synthetic Seed Technology, Istituto di Coltivazioni Arboree, Università degli Studi, Bologna, Italy.
- January 25, 1990. Technological Change and the Future of Agriculture. Address at ceremonies for Dottore (ad honorum) Scienze Agrarie, University of Bologna, Cesena, Italy.
- January 31, 1990. Synthetic Seed Technology. Biosem, Laboratoire de Biologie, Cellulaire et Moléculaire, Campus Universitaire des Cézeaux, Aubiere, (Clermont-Ferrand) France.
- March 19, 1990. New Crops for Indiana. Agronomy Seminar, Purdue University.
- April 20, 1990. Horticulture and Human Culture. Keynote address at National Symposium: The Role of Horticulture in Human Well-Being and Social Development. Arlington, Virginia.
- July 20, 1990. Micropropagation Workshop; Concluding Summation Tissue Culture Networking/Workshop Meeting. National Research Council, BOSTID, Davis, California.
- August 13, 1990. Horticulture: Yesterday, Today and the Future. Master Gardeners of Michigan. Michigan State University, East Lansing.
- August 30, 1990. Development of an international directory of horticulture. Forum: Strategies for Horticulture Societies in the 1990s. XXIII Horticultural Congress, Florence, Italy.
- September 19, 1990. Micropropagation of cacao. First National Congress of Plant Tissue Culture, Ambato, Ecuador.

- February 18, 1991. New crops from old genes. Keynote address. Second International Symposium on Kiwifruit. Massey University, Palmerston North, New Zealand.
- February 27, 1991. History of Horticultural Science. Massey University, Palmerston North, New Zealand.
- February 28, 1991. History of Horticultural Science. DSIR, Mt. Albert, Auckland, New Zealand.
- April 9, 1991. Agricultural uses of somatic embryos. Department of Botany and Horticulture, University of Georgia, Athens.
- April 11, 1991. Agricultural uses of somatic embryos, Department of Horticulture, University of Kentucky, Lexington.
- June 12, 1991. Desiccation resistance in synthetic seed. Plant Cell and Tissue Culture: Tools for Understanding Development. Gordon Research Conference, Plymouth, New Hampshire.
- September 19, 1991. New Apples. Interview with Paula Zahn, ABC Good Morning America.
- January 21, 1992. Oriental Pears (moderator), Indiana Horticultural Society, Indianapolis, Indiana.
- March 2, 1992. New Crops Research in the United States, Ben-Gurion University, Beersheva, Israel.
- November 3, 1992. Synthetic Seed: Implications for Seed Technology, Keynote Speaker 23rd International Seed Testing Congress, Buenos Aires, Argentina.
- January 24, 1993. 'Enterprise' and 'GoldRush', Two new Disease-Resistant Cultivars. Disease Resistant Apple Cultivar Workshop, Hershey, Pennsylvania.
- January 26, 1993. Introducing GoldRush and Enterprise; A New Series of Co-op Apples – Coop 32–38. Indianapolis, Indiana.
- May 17, 1993. CO₂ Enrichment for Propagation of Cacao. INRA, Angers, France.
- May 27, 1993. Biotechnological Studies in *Theobroma cacao* L.: Micropropagation, Gum Characterization, and Estimation of Genetic Diversity using Molecular Markers; Progress in Apple Breeding for Disease Resistance. University of Bologna, Italy.
- October 20, 1993. Purdue's Apple Breeding Program. Pear and Apple Breeders Conference, Kentville, Nova Scotia.
- December 20, 1993. Disease Resistant Apple Breeding. Scab and Mildew Resistant Apple Varieties. Ahrweiler, Germany.
- January 26, 1994. Introducing Pristine, Another New Scab Resistant Apple: What the Variety Picture Looks Like in the '90s. Indiana Horticultural Society, Indianapolis, Indiana.

- January 27, 1994. Purdue's Center for New Crops and Plant Products, New Crops for the Heartland. Indiana Horticultural Congress, Indianapolis, Indiana.
- March 24, 1994. Plant Breeding. WALLA, West Lafayette, Indiana.
- July 6, 1994. Disease Resistant Apple Breeding. University of Evora, Portugal.
- July 7, 1994. The Future of Horticulture. Honoris causa address. Technical University of Lisbon.
- July 25, 1994. PRI Scab Resistant Apples. Fleming's Nurseries, Monbulk, Australia.
- July 26, 1994. Breeding Disease Resistant Apples. Knoxfield, Australia.
- July 28, 1994. Breeding to Biotechnology: Keeping the Competitive Edge. Keynote address. Annual meeting of the Australian Society for Horticultural Science, Wentworth, New South Wales, Australia.
- August 1, 1994 PRI Apple Cultivars. Lensworth Horticultural Center, South Australia.
- August 2, 1994. Apple Breeding for Disease Resistance. The Future of Apple and Pear Breeding. Apple and Pear Growers Meeting, Lensworth Horticultural Center, South Australia.
- August 4, 1994. History of Horticulture. Department of Primary Industries (DPI), Brisbane, Australia.
- August 5, 1994. The Future of Fruit Breeding. Horticultural Research Station, Maroochy, Queensland, Australia.
- August 8, 1994. The Future of Fruit Breeding. Granite Belt Horticultural Station, Stanthorpe, Queensland, Australia.
- August 9, 1994. Apple Breeding for Disease Resistance. Applethorpe, Queensland, Australia.
- August 10, 1994. Tampering with Nature. Granite Belt Horticultural Station, Stanthorpe, Queensland, Australia.
- August 12, 1994. History of Horticultural Technology. Future of Fruit Breeding. University of Western Sydney, Hawkesbury, New South Wales, Australia.
- August 23, 1994. Pomological education in North America. Workshop. Strategy for a Modern Pomology. XXIV International Horticultural Congress, Kyoto, Japan.
- November 3, 1994. New PRI apples. Midwest Fruit Workers Meeting, Indianapolis, Indiana.
- January 24, 1995. Purdue Fruit Research Update. New Apple Coops (39-44). Indiana Horticultural Society, Indianapolis.

- January 26, 1995. New developments from Purdue's New Crops Center. New Specialty Crops for the Heartland. Indiana Horticultural Society, Indianapolis.
- April 3, 1995. History of Horticultural Technology, Hebrew University, Rehovoth, Israel.
- April 19, 1995. Disease Resistant Apple Breeding. Department of Horticulture, Cukurova University, Adana, Turkey.
- April 21, 1995. History of Horticultural Technology. Department of Horticulture, Cukurova University, Adana, Turkey.
- April 25, 1995. Horticultural Education in the United States, Disease Resistant Apple Breeding. Ege University, Izmir/Bornova, Turkey.
- April 26, 1995. History of Horticultural Technology. Ege University, Izmir/Bornova, Turkey.
- May 1, 1995. Breeding Disease Resistant Apples. Atatark Horticultural Research Center, Yalova, Turkey.
- July 30, 1995. What's hot, what's not. Introduction to fads and fashions in horticultural science: Reality check. ASHS annual meeting, Montreal, Canada.
- October 25, 1995. Symposium wrap-up. Third National Symposium New Crops: New Opportunities, New Technologies, Indianapolis, Indiana.
- November 6, 1995. Evaluation of Purdue apples. Rocky Meadow Orchard & Company, New Salisbury, Indiana.
- November 16, 1995. New Crops and New Uses for Old Crops. Farming with a Future Seminar, Flanagan, Illinois.
- January 23, 1996. Impressions of Australian and Japanese Apple Industry. Indiana Horticultural Society, Indianapolis, Indiana.
- January 23, 1996. Unusual and old fruits for the Midwest. New Specialty Crops for the Heartland III. Indiana Horticultural Society, Indianapolis, Indiana.
- April 11, 1996. The Future of Fruit Breeding, Cornell University, Ithaca, New York.
- July 9, 1996. New Crops: Agronomy and Horticulture. Domestication, Production, and Utilisation of New Crops, Southampton, England.
- July 10, 1996. Conference Wrap-up. Domestication, Production, and Utilisation of New Crops, Southampton, England.
- July 16, 1996. History of Botanical Illustration. Lafayette Museum of Art.
- November 3, 1996. Heterosis in Horticultural Crops. Workshop on Heterosis. CSSA/ASHS, Indianapolis, Indiana.
- December 8, 1996. Protection of New Cultivars. Washington Fruit Testors Association, Yakima.

- December 10, 1996. Technology of Apple Improvement: Reality Check. Washington State Horticultural Association, Yakima.
- December 8, 1996. Protection of New Cultivars. Washington Fruit Testors Association, Yakima.
- December 10, 1996. Technology of Apple Improvement: Reality Check. Washington State Horticultural Association, Yakima.
- January 28, 1997. New Technology and Apple Cultivar Improvement. Indiana Horticultural Society, Indianapolis, Indiana.
- March 11, 1997. Prospects for Horticulture in the Next Century (key-note address). II Congresso Iberoamericano, III Congresso Iberico de Ciencias Horticolas. Vilamoura, Portugal.
- March 17, 1997. Fruit Breeding for a Sustainable Agriculture. Consejo Superior de Investigaciones Cientificas, Instituto de Agricultura Sostenible, Alamed del Obispo, Cordoba, Spain.
- May 16, 1997. Future of Fruit Breeding, University of Naples, Portice, Italy.
- May 19, 1997. New Crop Information System. FAO, Rome Italy.
- August 21, 1997. Exploration of Heterosis, Uniformity and Stability Considerations. The genetics and exploration of heterosis in crops. An International Symposium. CIMMYT. Mexico City, Mexico.
- September 18, 1997. Future of Fruit Breeding, Plant Breeding Program, Plant Breeding Seminar, University of Wisconsin, Madison.
- October 10, 1997. Apple Breeding and Genetics (with S. Sansarini). II Symposium International on 'State of the Art and Perspectives of World Genetic Improvement of Fruit Tree Species (apple, cherry, Japanese persimmon, chestnut)'. Faenza, Italy.
- November 3, 1997. Prospects for Horticulture in the Twenty-First Century. International Peat Conference. Amsterdam, The Netherlands.
- November 10, 1997. Fruit Breeding for the 21st Century. International Symposium on Banana in the Subtropics. Puerto de la Cruz, Canary Islands, Spain.
- January 11, 1998. New Crop Information System. Farm Bureau Showcase. Charlotte, North Carolina.
- January 27, 1998. Apples for the 21st Century. New Apple Variety Panel. 1998 Indiana Horticultural Congress, Indianapolis.
- June 19, 1998. Policy Issues in Horticultural Research Funding. World Conference on Horticultural Research. Rome, Italy.
- June 28, 1998. Methods to Obtain New Crops: The Other Horticulture's Approach. Seeley Conference. Cornell University. Ithaca, New York.
- July 14, 1998. Horticultural Illustration and the Artistic Record; Botanical and Herbal Illustration. Annual Meeting of the American Society for Horticultural Sciences. Charlotte, NC.

- July 15, 1998. New Crop Development. Annual Meeting of the American Society for Horticultural Science. Charlotte, NC.
- August 3, 1998. New Crop: A Web-Based Resource for Crop Improvement Emphasizing New and Specialty Crops. Int. Hort. Congress, Brussels, Belgium.
- September 21, 1998. Problems in National and International Research Policy – Tropical Studies. Purdue University.
- October 28, 1998. The Search for New Food Resources. 1998. Nara International Symposium, Nara, Japan.
- December 10, 1998. Is the Creation of Orphan Crops a Necessary By-Product of the Privatization of Science. Int. Agr. Seminar (with Ray Bressan and Larry Murdock).
- January 20, 1999. Introducing Scarlett O'Hara apple. 1999 Indiana Horticultural Congress. Indianapolis, Indiana.
- February 10, 1999. New releases from the PRI Breeding Program. Ohio Fruit Growers Society, Cincinnati, Ohio.
- April 6, 1999. Apple breeding. Midwest Apple Improvement Association Board meeting. New Salisbury, Indiana.
- May 27, 1999. Programs in Apple Breeding, National Horticultural Research Institute, Suwon, Korea.
- May 28, 1999. New Crops and the Search for New Food Resources, Plenary Lecture, Spring Meeting of the Korean Society for Horticultural Science, Kyung Hee University, Suwon, Korea.
- June 1, 1999. History of Horticultural Technology, Gyeon Gsang National University, Korea.
- June 2, 1999. Keynote Address, New Crops and the Search for New Food Resources, Chownam National University, Korea.
- July 6, 1999. New Crops and New Resources. Agricultural Research Center of Finland. Plant Production Research Jokionen.
- January 25, 2000. New Apple Co-ops, Photo-ops, and Flops. 2000 Indiana Horticultural Congress. Indianapolis, Indiana.
- February 10, 2000. Recent Apple Releases and Selections From the PRI Program. Ohio Fruit and Vegetable Growers Congress. Cincinnati, Ohio.
- April 24, 2000. History of Horticultural Science: Reflections from the Artistic Record. Beach Lecture. Iowa State University, Ames, Iowa.
- July 26, 2000. Asian Crops in North American Horticulture. ASHS Annual Meeting, Orlando, Florida.
- August 21, 2000. Designing New Crops and Cropping Systems for the Future (Master Class). 3rd International Crop Science Congress (ISC). Hamburg, Germany.
- August 22, 2000. New Crops for the Twenty-First Century. 3rd International Crop Science Congress (Keynote). Hamburg, Germany.

- August 24, 2000. *New Crops for the Twenty-First Century*. Szent István Egyetemi Napok. Budapest, Hungary.
- August 25, 2000. *NewCROP: A Web-Site Resource for Crop Information*. Szent István Egyetemi Napok. Budapest, Hungary.
- September 5, 2000. *The Pear in Art and Popular Culture*. VII International Pear Symposium. Ferrara-Bologna, Italy.
- September 14, 2000. *History of the PRI Apple Breeding Program*. ISHS Symposium on Apple Breeding for Scab Resistance. Trento, Italy.
- October 29, 2000. *Ancient Egyptian Agriculture and the Origins of Horticulture*. ISHS Symposium in Mediterranean Horticulture and also at the Center Laboratory for Agricultural Climate Agriculture Research Center, November 1, Cairo, Egypt.
- January 31, 2001. *Crop Map and New Crop*. 2001 Indiana Horticultural Congress, Indianapolis.
- January 31, 2001. *GoldRush: It's place in Midwest Apple Industries*. Indiana Horticultural Congress, Indiana.
- March 5, 2001. *The Potential for New Crops, Growing Global, Organic and New Crop Opportunities*. 5th Annual Western Canada Medicinal and Aromatic Plants Conference, Edmonton, Alberta, Canada.
- October 22, 2001. *Breeding apples for scab resistance*. Asprofruit Convegno. Salone Asprofruit, Lagnasco CN Italy.
- October 26, 2001. *Biodiversity in Agriculture and Research on the New Agro-industrial crops*. National Academy of Agriculture, Palazzo dell' Archigennasio, Sala Rionioni dell' Academia, Piazza Galvani I, Bologna, Italy.
- October 30, 2001. *New Crops and Agricultural Diversity*. University of Padua, Italy.
- November 8, 2001. *Update on PRI apple breeding Program*. Midwest Apple Improvement Association. Dawes Arboretum, Newark, Ohio.
- November 27, 2001. *New Crops Overview*. New Crops and Animal Products Workshop. Southern Illinois University, Carbondale, Illinois.
- January 29, 2002. *Introducing 'Sundance' and 'Pixie Crunch' Apples and 'Green Jade' Pear*. 2002 Indiana Horticultural Congress, Indianapolis, Indiana.
- January 30, 2002. *Developing New Crops: Mediterranean Crops*. 2002 Horticultural Congress, Indianapolis, Indiana.
- March 27, 2002. *Jews, Pork and History*. Jewish Studies, Purdue University.
- June 27, 2002. *Future of Fruit Breeding*. Richard L. Lower Colloquium. University of Wisconsin, Madison.
- August 15, 2002. *History of Asian Horticultural Technology*. World Horticultural Congress, Toronto, Canada.

- January 28, 2003. Arugula Productionz: Rocket Science. 2003 Indiana Horticultural Congress, Indianapolis Indiana.
- August 21, 2003. The Origins of Fruit Culture and Fruit Breeding. Hallauer Symposium on Plant Breeding, Mexico City.
- September 1, 2003. Genetic Alterations Associated with the origins of Fruit Culture. Eucarpia Symposium on Fruit Breeding and Genetics. Angers, France.
- October, 3, 2003. Horticulture, Horticultural Science, and 100 Years of ASHS. William A. 'Tex' Frazier Lecture, Centennial Meeting, American Society for Horticultural Science, Providence, Rhode Island.
- October 4, 2003. Fruit Breeders: PRI, South Dakota, Minnesota. Fruit Breeders of the Past 100 Years. Fruit Breeding Working Group Workshop. Centennial Meeting, American Society for Horticultural Science, Providence, Rhode Island.
- October 23, 2003. Caravaggio's fruits: Mirror on Baroque Horticulture. Purdue University, Horticulture and Landscape Architecture Seminar.
- November 13, 2003. Caravaggio's Fruits: Mirror on Baroque Horticulture. Purdue University, Art History Student Organization, Visual and Performing Arts.
- January 27, 2004. Introducing Adagio, A Slow-bolting Arugula. Indiana Horticultural Congress, Indianapolis, Indiana.
- January 14–15, 2004. Anna Whipkey and Jules Janick The Mint Virtual Library. Poster presented at the 7th annual meeting of the Mint Industry Research Council, Las Vegas, Nevada.
- January 31, 2004. The Case for New Crops. 2004. 2004 Young Farmer Conference, Indiana Farm Bureau, Indianapolis, Indiana.
- February 12, 2004. Art and Horticultural Technology. Art History Seminar. Purdue University.
- April 2, 2004. Horticulture and Horticultural Science: 10,000 Years of Change. National Academy of Agriculture, Bologna, Italy.
- April 21, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Scuola Superiore Sant'Anna, Pisa, Italy.
- April 29, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. University of Bari, Italy, Arugula Research Studies. CNR, University of Bari, Italy.
- May 12, 2004. The Origins of Fruits, Fruit Culture, and Fruit Breeding, Scuola Superiore Sant'Anna, Pisa, Italy.
- May 14, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. University of Naples, Frederico II, Portici, Italy.
- May 19, 2004. The Case for New Crops. Scuola Superiore Sant'Anna, Pisa, Italy.

- May 20, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Palazzo Marchesini, University of Bologna, Italy.
- May 21, 2004. The Origin of Fruit Tree Species. Facolta' di Agraria, Universita' Degli Studi di Bologna, Italy.
- August 16, 2004. Caravaggio's Fruits; Mirror on Baroque Horticulture; Origins of Fruits, Fruit Culture, and Fruit Breeding; Scab Resistant Apple Breeding: A Half Century of Progress. Combined Annual Meeting of the Northern Nut Growers Association and the North American Fruit Explorers.
- August 24, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Maroochy Research Station, Queensland, Australia.
- September 1, 2004. The Future of Horticultural Crop Breeding. Joint Regional Horticultural Conference (Harnessing the Potential of Horticulture in the Asian-Pacific Region), Coolum, Queensland, Australia.
- September 27, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Cornell University Centennial Lecture Series., Ithaca, New York.
- October 21, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. North Central Regions (NCR) 22 meeting. Indianapolis, Indiana.
- November 13, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Midwest Apple Improvement Association. Dawes Arboretum, Ohio.
- November 17, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Technical University of Lisbon, Portugal.
- December 6, 2004. Cupid and Psyche: Fables and Festoons. Purdue University North Central. Westville, Indiana.
- December 6, 2004. Caravaggio's Fruits: Mirror on Baroque Horticulture. Valparaiso University, Valparaiso, Indiana.
- January 25, 2005 The History of Herbals; Adagio: Late-Bolting Arugula; Introducing 'CrimsonCrisp' Apple and 'Ambrosia' Pear, Indiana Horticultural Congress and Trade Show. Indianapolis, Indiana.
- March 23, 2005. Cupid and Psyche: Fables and Festoons The Kermit A. Olson Memorial Lecture, Department of Horticultural Science. University of Minnesota, St. Paul.
- April 11, 2005 Cupid and Psyche: Fables and Festoons. INRA Centre de Recherches d'Avignon. Séminaire à Saint Maurice, France.
- April 14, 2005 Cupid and Psyche: Fables and Festoons Horticulture Seminar, Horticulture Building, Purdue University Art History Seminar, Krannert, Purdue University.
- May 25, 2005. Cupid and Psyche: Fables and Festoons. V Congresso Iberico de Ciencias Horticolas. Porto, Portugal.
- June 2, 2005. Caravaggio's Fruits: Mirror on Baroque Horticulture. Instituto de Agricultura Sostenible, CSIC; Escuela Superior de Ingenieros Agronomos, University of Cordoba, Cordoba, Spain.

- July 19, 2005. Genetic Alterations Associated with the Domestication of Fruits. ASHS Annual Meeting. Las Vegas, Nevada.
- July 19, 2005 Fruits of the Bible. ASHS Annual Meeting. Las Vegas, Nevada.
- July 21.2005. Fruit Exploration from Antiquity to the Eighteenth Century. ASHS Annual Meeting. Las Vegas Nevada.
- Sept. 9, 2005. Cupid and Psyche: Fables and Festoons. Keynote address, California Rare Fruit Growers (CRFG) & North American Fruit Explorers (NAFEX) annual meeting. Santa Cruz, California.
- Sept. 29. 2005. Caravaggio's Fruit: Mirror on Baroque Horticulture. Coyne Memorial Lecture, Lincoln, Nebraska.
- Oct. 18, 2005 Cupid and Psyche: Festoons and Fables, Cornell University, New York Agricultural Experiment Station, Geneva, New York.
- Oct. 19, 2005. Cupid and Psyche: Festoons and Fables, Cornell Plantations Class of 1938 endowed lecture, Cornell University, Ithaca, New York.
- Nov. 12, 2005. History of the PRI apple breeding program. NEC 1099 and MAIA (Midwest Apple Breeding Improvement Program). Indianapolis, Indiana.
- Dec. 6.2005. Plants and Health: From Ancient Egypt to the Present. Accademias dei Georgofili, Logge Uffize Corti Florence, Italy.
- Dec. 9.2005. Cupido e Psiche, Decorazioni di Festoni e Fregi in Ville Romane: Aspetti Artistici, Semiologici e Pomologici. Facolta di Agraria, University of Bologna, Viale Fanin 44, Bologna. Italy.
- Dec. 12.2005 Cupid and Psyche: Fables and Festoons. An Analysis of Genetic Diversity in the Renaissance. Facolta de Agraria, Universita di Pisa, and Scuola Superiore Sant'Anna, Pisa, Italy.
- Dec. 13. 2005. Origin of Fruit, Fruit Culture, and Fruit Breeding: Genetic Changes Associated with Fruit Domestication. Facolta de Agraria, Universita di Pisa, and Scuola Superiore Sant'Anna, Pisa, Italy.
- January 23, 2006. Introduction to the Workshop: Hoosier Botanicals, Indiana Horticultural Congress & Trade Show, Indianapolis, Indiana.
- March 7, 2006. The First Images of Maize in Europe. 42nd Annual Illinois. Corn Breeders' School. University of Illinois, Urbana-Champaign.
- April 1, 2006. Welcoming Address: An Introduction to the International Society for Horticultural Science. The Second International Symposium on Loquat. Quangzhou, China.
- April 1, 2006. Keynote Address; Genetic Changes Associated with the Domestication of Fruits. Second International Symposium on Loquat. Quangzhou, China.
- April 16, 2006. Genetic Changes Associated with the Domestication of Fruits. Second International Symposium on Loquat. Putian, China.

- April 6, 2006. Cupid and Psyche: Renaissance Art and Horticulture; Putian University, Putian, China.
- June 6, 2006. Cupid and Psyche: Fables and Festoons. The Use of Information from Renaissance Art to Provide Information on Genetic Diversity and Crop Dispersal. Plant Genetic Resources Conferences, North Central Region, Plant Introduction Station. Ames, Iowa.
- June 8, 2006. Cupid and Psyche: Fables and Festoons (An Historical Horticultural Analysis). Michigan State University, East Lansing.
- July 27, 2006. [Marie-Christine Dauny, Jules Janick, and Henri Laterrot.] Iconography of Solanaceae: Antiquity to the 17th Century. Solanaceae 2006, Madison, Wisconsin.
- August 14, 2006. Opening Colloquium Address: The Origins of Horticultural Technology and Science, 27th International Horticultural Congress, Seoul, Korea.
- August 14, 2006. Art as a Source of Information on Horticultural Technology, Workshop, Art and Horticulture; East and West. 27th International Horticultural Congress, Seoul, Korea.
- August 15, 2006. Preparing Better Manuscripts. Workshop. 27th International Horticultural Congress, Seoul, Korea.
- September 21, 2006. Old World Cucurbits in Plant Iconography of the Renaissance. Cucurbitaceae 2006, Asheville, North Carolina.
- September 21, 2006. Jonah and the 'Gourd' at Nineveh: Consequences of a Classic Mistranslation. Cucurbitaceae 2006, Raleigh, North Carolina.
- September 29, 2006. The First Images of Maize in Europe. Plenary address, International Symposium: Increasing Efficiency of Maize Breeding in the Genomic Era, Thessaloniki, Greece.
- October 4, 2006. Cupid and Psyche: Fables and Festoons. University of Athens, Greece.
- October 17, 2006. Art as a Source of Information in Genetic Diversity. Banquet Address. Sixth New Crop Symposium Creating Markets for Economic Development of New Crops and New Uses, San Diego, California.
- October 19, 2006. Cupid and Psyche: Fables and Festoons. Department of Horticulture, University of Connecticut, Storrs.
- October 20, 2006. Art as a Source of Information on Horticultural Technology. Donald N. Maynard Endowed Lecture in Plant Science. University of Connecticut, Storrs.
- November 10, 2006. The Fruits of Caravaggio: Mirror on Baroque Horticulture. Symposium: Natura Morta; Still-life Life Painting and the Medici Collections and Caravaggio Still Life with Fruit on a Stone Ledge. The College of William & Mary. Williamsburg, Virginia.

- January 8, 2007. Cupid and Psyche: Fables and Festoons. Royal Horticultural Society, Wisley, UK.
- January 11, 2007. Cupid and Psyche: Fables and Festoons. Plant Science Department, University of Oxford, UK.
- March 11, 2007. Art as a Source of Information on Horticultural Technology. Midwestern America Collegiate Horticultural Society. Purdue University, West Lafayette, Indiana.
- May 2, 2007. Cupid and Psyche: Fables and Festoons. Friends of the Library Travel Series. West Lafayette, Indiana.
- June 3, 2007. Horticultural Advances and Israel. Hebrew University, Mount Scopus, Israel.
- June 4, 2007. Cupid and Psyche: Fables and Festoons. The Volcani Center, Bet Degan, Israel.
- June 7, 2007. Art as a Source of Horticultural Information. Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel.
- June 7, 2007. Crop Diversity: The Case for New Crops. Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot, Israel.
- September 24, 2007. Jonah and the 'Gourd' at Nineveh: Consequences of a Classic Mistranslation. American Friends of the Hebrew University of Jerusalem, Chicago, Illinois.
- November 10, 2007. Fifty Years of Apple Breeding; A Perspective. Midwest, Apple Improvement Association. Dawes Arboretum, Newark, Ohio.
- February 14, 2008. What did the Emperor Tiberius Grow in his Greenhouse; Reflections on Horticulture and Art. Department of Horticulture Seminar, Purdue University.
- March 27, 2008. Looking Backward, Looking Forward: A Career in Horticulture. Centre de Recherché en Horticulture, Laval University, Quebec City, Quebec.
- May 21, 2008. What the Roman Emperor Tiberius Grew in his Greenhouses. Cucurbitaceae 2008, Avignon, France.
- June 3, 2008. Cupid and Psyche, Fables and Festoons, Master Gardeners, Tippecanoe County Master Gardener Association, Lafayette, Indiana.
- July 21, 2008. What did the Emperor Tiberius Grow in his Greenhouse. ASHS Meeting, Orlando, Florida.
- November, 1, 2008. Reflections on the Protection and Promotion of New Apple Cultivars: 'Pixie Crunch' and 'CrimsonCrisp' Midwest Apple Improvement Association Meeting, Dawes Arboretum, Heath, Ohio.
- January 9, 2009 Art as a Source of Information on Horticultural Technology. Library Dedication. University of Florida, Gainesville.
- March 11, 2009. Jonah, the whale and Gourd at Nineveh. Jewish Studies Program. Purdue University, West Lafayette.

- June 10, 2009. Lectures on Origin of Fruit Crops, Apple Breeding, Fables and Festoons. AGRY 550 Plant Breeding. Agronomy Department, Purdue University, West Lafayette.
- June 20, 2009. Fruit and Nuts: Origins, Iconography, History. (Keynote speaker) 100th Anniversary Meeting. Northern Nut Growers Association. Purdue University, West Lafayette.
- September 23, 2009. Agriculture and Culture in Pre-Columbian America. Tippecanoe County Library.
- October 9, 2009. Fruits and Nuts: Origin, History, Iconography. Unappreciated Fruits Symposium. Oregon State University, Corvallis.
- November 9, 2009. Horticulture and Health: Ancient and Medieval Views. Keynote address. International Conference on Horticulture 2009. Bangalore, India.
- November 11, 2009. Vegetable Production, Breeding, and the Seed Industry. Challenges and Opportunities in Horticulture.; Future Thrusts and Recommendations. Conference on Horticulture 2009. Bangalore, India.
- November 20, 2009. History of Pear. Keynote. European Pear Forum. Tokyo, Japan.
- February 3, 2010. Cupid and Psyche: Fables Festoon, and Genetic Diversity in the Renaissance. Texas A&M., College Station.
- March, 3, 2010. Amazon Adventure, Department of Horticulture, Purdue University, West Lafayette.
- April, 28. 2010. Taj Mahal: Gardens the Imagination. Art History Association, Purdue University, West Lafayette.
- May 3, 2010. Predictions for loquat improvement in the next decade (keynote address). II International Loquat symposium, Antakya, Turkey.
- May 4. 2010 Predictions for loquat improvement in the next decade (keynote address). II International Loquat symposium, Tarsus, Turkey.
- August 2010. Taj Mahal,: Gardens of the imagination. ASHS annual meeting, Desert Springs, California (Delivered by Paul Siciliano).
- August 24, 2010. Taj Mahal: Gardens of the Imagination. International Horticultural Congress, Lisbon, Portugal.
- August 26, 2010, Introduction to the Colloquium, Iberian Encounter with America and Asia: Exchange of Horticultural plants; Evidence for New World Plants in Europe and Asia for the Artistic Record. International Horticultural Congress, Lisbon, Portugal.
- October 29, 2010. The Artistic Record: Art as a Source of Information on Agricultural Technology. Remarks upon receiving Honoris Causa, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania.

- January 7, 2011. Fruit Breeding: Past, Present, and Future. Keynote Address Combined Congress, South African Society of Crop Production, The Soil Science Society of South Africa, The Southern African Weed Science Society, and the Southern African Society for Horticultural Science.
- January 28, 2011, Taj Mahal: Gardens of the Imagination. University of Pretoria, South Africa.
- March 20, 2011. Passage to India. Department of Horticulture. Purdue University, West Lafayette.
- May 24, 2011 Fruit Breeding: Past, Present, and Future. Northwest Agricultural University. Beibei, Chongqing, Chi.
- May 26, 2011. Keynote address. Fruit Breeding: Past, Present, and Future + The III International Loquat Symposium of Loquat, Antakya, Turkey. The Vth Chinese Loquat Symposium, Shimian, China.
- September 25, 2011. Introduction to the Workshop: History of Hawaiian Pomology. Waikoloa, Hawaii.
- September 26, 2011. The Juliana Anicia Codex: 1500 Year Anniversary (412–2012) of a Dioscoridean Recension. ASHS Annual Meeting, Waikoloa, Hawaii.
- December 14, 2011, Vicoso and UREMG, 1963–1965. Dept. of Phytotecnia, Federal University of Viçosa.
- December 15, 2011. Remarks of the 50th Anniversary of the Graduate Program at UFV, Viçosa Brazil., Federal University of Viçosa, Brazil.
- January 18, 2012. Purdue's Scab Resistant Apple Breeding Program: Progress & Potential. Indiana Horticulture Congress, Indianapolis.
- March 5, 2012. Festoons and Fables. Arnold Arboretum, Harvard University, Boston.
- March 5, 2012. Art as a Source of Information on Horticultural Technology, Arnold Arboretum, Harvard University, Boston.
- April 5, 2012. Ancient Greek Illustrated Dioscoridean Herbals: Origins and Impact of the *Juliana Anicia Codex* and the *Codex Neapolitanus*. 5th International Conference on Mediterranean Studies, Athens.
- April 18, 2012. Early Images of America: Revelations of the Drake Manuscript. Sponsored by Art History, Horticulture, & Latin American Studies, Purdue University, West Lafayette.
- August 1, 2012. Development of New World Crops by Indigenous Americans. ASHS Annual Meeting, Miami, Florida.
- August 2, 2012. Relation of the Juliana Anicia Codex and the Codex Neapolitanus: Ancient Greek Illustrated Dioscoridian Herbals. ASHS Annual Meeting, Miami, Florida.
- August 7, 2012. Origins and Future of Fruit Breeding. National Association of Plant Breeders banquet. Indianapolis, Indiana.

- August 14, 2012. Early Images of America: Revelations of the Drake Manuscript. Iowa State University, Ames.
- September 14, 2012. Early Images of America: Revelations of the Drake Manuscript. INIA, Monfavet, France.
- October 22, 2012. Melhoramento de Fruteiras: Passado, Presente e Futuro (Fruit Breeding: Past, Present, and Future). Keynote Lecture. XXII Congresso Brasileiro de Fruticultura. Bento Gonçalves, Brazil.
- January 28, 2013. (with Anna Whipkey) Distance Education in Horticulture: A Ten Year Retrospective. Department of Agronomy, Purdue University, West Lafayette.
- February 23, 2013. Art as a Source of Information on Horticultural Technology. Oklahoma Horticulture Society, Tulsa.
- February 24, 2013. Cupid and Psyche: Fables and Festoons. Oklahoma Horticulture Society, Oklahoma City.
- April 2, 2013. Apple breeding at Purdue University. INIA Field day on apple breeding, Chillan, Chile.
- April 4, 2013. Past, Present, and Future of Fruit Breeding. Manejo de pre y proscosecha en heurtos de manzano y seleccion de nuevas variedades in progfams de mejoramiento genetico de manzanosa: Casos de Exito. Santiago, Chile.
- July 22, 2013. Luther Burbank: Plant Breeding Artist and Legend. Colloquia and Workshops. ASHS Annual Meeting. Desert Springs, California.
- November 25, 2013. Iconographie du Moyen Age a la Renaissance: Contribution a l'Histoire des plantes (Solanacees, cucuritacees) (Marie-Christine Daunay, Jules Janick & Harry Paris). Entre Jardin et Table, Potager du Roi et Institut National de l'Histoire del'Art, Paris.
- January 22, 2014. Pixie Crunch: A No-Brainer for U Pick. Indiana Horticultural Congress, Indianapolis, Indiana.
- March 24, 2014. Art as a Source of Information on Horticultural Technology, WALLA, West Lafayette, Indian Plants, Art, and History, Course, Wabash Area Lifetime Learning Association (WALLA), West Lafayette, Indiana.
- March 26, 2014. What the Emperor Tiberius Grew in His Greenhouse. WALLA, West Lafayette, Indiana.
- March 31, 2014. Jonah and the Gourd at Nineveh: Consequences of a Classic Translation. WALLA, West Lafayette, Indiana.
- March 31, 2014. Fruits of the Bibles. WALLA, West Lafayette, Indiana.
- April 2, 2014. Horticulture and Health: Ancient and Medieval Views. WALLA, West Lafayette, Indiana.
- April 7, 2014. Cupid and Psyche: Fables and Festoons. WALA, West Lafayette, Indiana.

- April 9, 2014. Unicorns: Tapestry, History, Mystery, Horticulture. WALLA, West Lafayette, Indiana.
- April 9, 2014. The Taj Mahal: Gardens of the Imagination. WALLA, West Lafayette, Indiana.
- April 16, 2014. Early Images from America: Revelations of the Drake Manuscript. WALLA, West Lafayette, Indiana.
- May 8, 2014. Art as a Source of Horticultural Technology. South China Agricultural University.
- May 12, 2014. (with Zhike Zhang and Shunquant Lin). Important world cultivars of Loquat. International Symposium on Loquat. Palermo, Sicily.
- June 11, 2014. Unicorns: Tapestry, History, Mystery, Horticulture, Roads Scholars, Purdue University, West Lafayette.
- July 28 2014. Nicolai Ivanovich Vavilov: Plant Geographer, Geneticist, Martyr of Science. ASHS Annual Meeting, Orlando, Florida.
- August 19, 2014. Dioscoridean Herbs: Comparison of Images Provides a Clue to their Relationships. 20th World Horticultural Congress, Brisbane, Australia.
- October 16. 2014, (Jules Janick, Richard L Lower, and Ray Martyn.) Cucumbers in Art. Cucurbitaceae 2014, Bar Harbor, Michigan.
- December 8, 2014. (Marie-Christine Daunay, Jules Janick, H.S. Paris). Historical Sources and Plant Genetics: The Case of Eggplant. History and Plant Sciences: Interdisciplinary Approaches. Angers, France.
- December 9, 2014. (Jules Janick and Arthur O. Tucker) Deciphering the Voynich Manuscript: Plants as the Rosetta Stone. History and Plant Sciences: Interdisciplinary Approaches. Angers, France.
- February. 26, 2015. Unicorns: Tapestry, History, Mystery, Horticulture. Department of Horticulture & Landscape Architecture Seminar, Purdue University, West Lafayette, Indiana.
- August 5, 2015. Jules Janick and Arthur O. Tucker. The Voynich Manuscript as a MesoAmerican Herbal. ASHS Annual Meeting New Orleans, Louisiana.
- April 17, 2016. Mystery of the Voynich Manuscript: A Bizarre Meso-American Herbal. Southern Michigan Purdue Alumni Association. Fernwood Botanical Garden and Nature Preserve, Michigan.
- August 8, 2016. Introduction to the Symposium: Mysteries of the Voynich Codex: A Meso-American Herbal. Iconography of the Voynich Codex; Nymphs and Magic Circles. ASHS Annual Meeting, Atlanta, Georgia.
- September 21, 2016 A Kabbalah Sephirothic Tree, the New Jerusalem, and the Voynich Codex: Understanding a Bizarre 16th Century Manuscript of New Spain. Jewish Studies Noon Program, Purdue University, West Lafayette.

VIII. SERVICE CONTRIBUTIONS

- President, Lafayette Chapter, American Recorder Society (1970–1971)
Board of Directors, American Society for Horticultural Science (1970–1978; 1986–1988)
Departmental Review Committee, University of New Hampshire (1971)
President, Pear Breeders' Co-operative (1971–1973)
Consultant, World Bank Agricultural Research and Extension Development Mission to Indonesia (1973)
Contributing Editor, *Horticulture* Magazine (1976–1978; 1982–1984)
Consulting Editor, AVI Publishing Company, Westport, Connecticut (1977–1982)
Consultant, Rodale Press (1978)
Editor, Horticultural Reviews, AVI, Timber Press, Wiley (1978–present)
Active Member, Campbell Soup Research Advisory Council (1978–1982)
Member, USDA/CR Review Team for the Department of Horticulture, University of Wisconsin, December 3–7, 1979
Member, USDA/CR Review Team for the Department of Horticulture, University of Mississippi, October 27–30, 1980
Advisor (Horticulturist) Purdue University Institute Development Program, Portugal, September 10 – October 10, 1981
Member, Scientific Advisory Board, DNA Plant Technology Corporation (1981–1986)
Consultant, International Plant Research Institute (1981–1982)
Member, USDA/CR Review/Team for the Department of Horticulture, Oregon State University, April 5–8, 1982
Visiting Scholar, Virginia Polytechnic Institute and State University, November 8–9, 1982
Associate Editor (Book Reviews), *HortScience* (1983–1987)
Advisor (Horticulturist), Purdue University Institute Development Program, Portugal, May 11–June 9, 1983
Consultant, John Wiley & Sons (1983–2016)
Expert witness, IRS Proposed Tax Regulations, March 8, 1984, US Tax Court, San Francisco, *Saglia v. Commissioner*, September 22, 1986
Advisor (Horticulturist), Graduate Program in Horticultural Science, University of Guelph, May 27–29, 1986
Chief of Party/Advisor (Horticulturist), USAID/OICD Portuguese Minister of Agriculture, June 8–28, 1986
Member CSRS Review Team for the Department of Plant Sciences, University of Delaware, November 18–21, 1986

- Member, US Study Group, Science Journal Feasibility Study for Africa, American Association for the Advancement of Science, 1986–1987
- Consultant, Weyerhaeuser Corporation, 1986–1987
- Chairman, BARD panel review (Horticulture), 1986–1987
- Chief of Party/Advisor (Agricultural Research). USAID/OICD Portuguese National Institute for Agricultural Research, May 23–June 13, 1987
- Consultant, Stark's Bros. Nursery, 1987–1988
- Member, CSRS Review Team for the Fruit Science Department, University of Florida, December 7–11, 1987
- Member, Advisory Board, *CRC Handbook of Plant Science in Agriculture*, 1987
- Consultant, USAID/Moroccan Project, Agadir, Morocco, Dec. 26, 1987–Feb. 28, 1988
- Consultant, Luso-American Development Foundation, Project Assessment, April 11–15, 1988
- Participant, Workshop on International Horticulture, Rutgers University, May 29–31, 1988
- Visiting Scientist, Horticultural Research Institute of Ontario, July 4–15, 1988
- Expert Witness, B. Hare vs. Stark Nursery, Greenville, SC, August 3, 1988
- Advisory Board, Superior Farming, Bakersfield, California, 1988
- Consultant, Food and Agriculture Organization of the United Nations, Yang Ling/Xian Shaanxi Province, People's Republic of China, December 14, 1988–January 3, 1989
- Consulting Editor, Timber Press, 1989–1991
- President, Parlor Club, Lafayette, Indiana, 1990–1991
- Participant, Gordon Research Conference, Plant Cell and Tissue Culture, Plymouth, New Hampshire, 1991
- ASHS Representative to ISHS Council (International Society for Horticultural Science), 1990–2002
- International Advisory Board, Third International Symposium on *In Vitro* Culture and Crop Breeding, 1994
- Panel Member, Plant Production and Protection (Biology) of USDA Small Business Innovation Research, Feb. 16–17, 1994
- International Advisory Committee for International Centre for Underutilized Crops. Southampton, England, 1996
- Council Member of International Society for Horticultural Science (US Representative ASHS), 1994–2000
- Audio Visual Presentation for Meijer Botanical Garden, Grand Rapids, MI, 1996

Advisory Committee, American Pomological Society, 1995–1997
Chair, CAST Writing Group on New Crops, 1995/1996
Topic Manager, Plant Production and Protection (BIOLOGY), Small Business Innovation Research (SBIR) Programs, USDA, 1995/1996
Participant CAST Congressional Briefing (Diversifying US Agriculture with New Crops), Feb. 12, 1996
Advisor National Plant Breeding Study, 1995–1997
Participant, Agriculture Review Team, Portuguese University of Science & Technology, Sept. 30–Oct. 11, 1996
Associate Editor, *Elizabethan Review*, 1996–2000
Editorial Consultant, *Sunset National Garden Books*, 1996
Member, Rosati Prize Committee, ISHS, 1997
Chairman, Working Group 5, World Conference on Horticultural Research, 1997–1998
Policy member, Historic Horticulture Site, ASHS, 1997–2003
Member, Investment Committee, ISHS, 1998
Consultant, International Atomic Energy Agency, Vienna, Austria, 1998
Technical Advisor to Variety Labeling Task Force, US Apple Association, 1998
ASHS, Horticulture Landmarks, 1998–2003
ASHS Press, Editor-in-Chief, 1998–2003
Scientific Committee for ‘Fruits’, Cirad-Fehor, France
ISHS Publication Committee, 1999–2002
External PhD Examiner, University of Helsinki, Finland, 1999
Reviewer for Agricultural Research at Universities, Portuguese Minister of Science and Technology, 1999
Editorial Board, *Food Encyclopaedia*, Scribners, New York, 2000–2002
Editorial Board for Agriculture, *Encyclopaedia Britannica*, 2000, Chicago
Consultant, DelMonte Corporation, 2000
External PhD Examiner, University of Sweden, Balsgaard, 2001
Board Member, ISHS, 2002–2010
Convener, Fruit Breeding Symposium, International Horticulture Congress, 2002
Science editor, *Chronica Horticulturae* (ISHS), 2002–2011
Editorial Board, *Acta Horticulturae* 622, 2003
Member of Wolf Prize in Agriculture Selection Committee, The Wolf Foundation, Jerusalem, Israel, 2003, 2008
European Union panel evaluation (Integrated Project), 2005
Foundation of Science and Technology Review Board 2006, Lisbon, Portugal
Reviewer and Rapporteur for ISAFRUIT project of the European Union, 2008, 2009, 2010. 2016

Portfolio evaluation. Charter Oaks State College. 2008, 2011
 Swedish University Reviewer, Upsalla, Sweden, 2009
 Ager Project Examiner (Italy) 2010
 Colloquium Convener, International Horticultural Congress 2010
 University of Connecticut External PhD Examiner 2010, 2011
 Judge, Pitschel Prize 2013–2016
 Distance Education Committee, College of Agriculture 2013–2014
 Advisory Board, South African Journal of Plant and Soil 2014

IX. EPILOGUE

We are hard pressed to identify another individual who has made contributions to the fields of horticulture and plant breeding during their lifetime that equal those of Jules Janick. In the span of a 63-year career at Purdue University, he has contributed to the education and edification of generations of students, scientists, and citizens. A prolific writer, editor, speaker, and organizer, Janick's influence has been enormous, and his work continues through a prodigious output of students, cultivars, germplasm, proceedings, books, websites, review journals and symposia. As if all of this were not enough, in his spare time, Janick writes song lyrics and comic verse, draws and paints, and sculpts. It is, therefore, not surprising that the term 'renaissance man' has been used often to describe him.

Janick's most long-lasting contributions may very well be in the way he has helped to archive and explain horticulture's influence on humankind and, likewise, humankind's influence on horticulture. His efforts have opened a window on our own wellbeing and taught us how our lives are inextricably bound up with horticulture and the improvement of crops. A fitting end to this tribute to an editor extraordinaire is, in his own words, from his acceptance speech upon receiving the American Society for Horticultural Science Hall of Fame Award in 2009.

'I am deeply honored to be inducted into the ASHS Hall of Fame. I was told that I was nominated last year but was turned down because I was neither retired nor dead. Since I chose to do neither, especially the latter, I am pleased the rule was changed.'

Sixty years ago when I was a student at Cornell University, Liberty Hyde Bailey spoke to my class. He was born in 1858, 151 years ago and I still feel a powerful connection to him and our Society where he served as the first President. ASHS has been the lynchpin of my professional life.

We who labor in the Vineyard of Horticulture are fortunate. We have the joy of working with fruits vegetables and ornamentals, plants that are beloved by all and celebrated in art, poetry and song.

We horticulturists are different and we see things differently.

My former Provost, a friend of mine, would often use the expression that 'someone was too dumb to shovel rutabagas out of a truck.' My immediate thought as a horticulturist was ... hmmm ... rutabaga, Brassica napa, 38 chromosomes, an allotetraploid between cabbage and turnip.

As a Mozart enthusiast when I seen the Marriage of Figaro, I may be the only one who feels a connection to Antonio, the gardener, the sole character to tell the complete truth in the entire opera.

Finally as Americans when we look at the Great Seal of the United States, we feel a kinship with the right claw of the bald eagle, the one holding the olive branch.

On this occasion I would like to express my thanks to my good friends, Charlie Hess and Don Maynard, who proposed me, ten of my supporters who wrote letters on my behalf, the Hall of Fame Committee, and most of all to my students who did a lot of the work to make this all possible. I thank my darling wife Shirley who has put up with me for 57 years and was forced to continually explain that her husband worked with fruits and nuts. Robin my daughter is here with her husband Alan and my grandson Noah. While she chose Law rather than horticulture – she serves as Chief Deputy Clerk of the 8th Circuit Court here in Saint Louis – she has seen the error of her ways and has just started a vineyard in her new house on the cliffs of the Mississippi in Alton Illinois. My son Peter who is cycling in Ithaca New York, home of Cornell, the alma mater of us both, chose radiology as a vocation but has become an orchidist as an avocation. I was extremely gratified to know that he worked with nitrate reductase from spinach for his PhD thesis, since my thesis was on sex determination in that same plant. I am forever hopeful my four grandsons may see the light. Number one grandson Noah assures me if he can't get a job in finance, he will consider it.

It has occurred to me that there is a connection between our blood families and our professional families. Our students become our children, and their students our grandchildren. We grow to love them all and are honored by their successes. Our professional tribe is worldwide. Wherever we go throughout the world we find affection for horticultural science. We are fortunate indeed.

As Abraham Lincoln said in his second inaugural address, I am loath to close. I end with the theme I used when I served as President of Our Society 20 years ago. Our lives depend on horticulture. And the life of Horticultural Science depends on us. Thank you all very much.'

LITERATURE CITED

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