

Dedication

Dedication to Dr. Jules Janick
Jules Janick—Mr. Horticulture



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I can think of no one more deserving nor anyone who has touched more lives in the discipline of horticulture than Jules Janick. His name evokes a legacy of productivity, ingenuity, and writing that spans a lifetime and broadened the study of horticulture throughout numerous forays into art, history, and international realms.

Seldom, if ever, has anyone made the breadth and depth of contributions to the field of horticulture as Jules has done. Whether a person is a professional horticulturist or hobbyist, in academia or business, breeder or physiologist, author, or reader, you likely will have heard about and benefited from Jules's multiple interests. In addition to his numerous contributions to teaching and extended education in the

academic setting, he is a teacher in the broadest sense by virtue of his tireless efforts to expound and promote horticulture through research, scientific publications, and wonderful oral/visual presentations.

Many of his subject colleagues have tossed out the adjective “renaissance” man to describe Jules. While this may be overused in many circles, I cannot think of a better descriptor. Throughout his career, he has reinvented himself as a horticultural scientist. From his contributions to sex determination, to his forays into somatic embryogenesis with an eye toward the mass production of “synthetic” seeds, to the consistency of focus in fruit breeding and genetics, Jules has always been at the forefront of horticultural science. His friends and students know that his passion for horticulture is brought to life through his art, poetry, and music. He is a student, and teacher, of the history of horticulture. Jules was one of the first faculty members at Purdue to deliver his course via distance education technology, bringing his thoughtful analysis of horticulture through the ages to students around the globe. This is one amazing human being!

Jules’s professional vitae and list of accomplishments constitute a book in itself and would be a worthy model for a rising young professional to emulate. They would need to be passionate about plants, committed to service, a tireless worker, willing to learn about the history of horticulture, excellent with words and a copy editor, and be able to get people to contribute when they do not believe they should. They must be educated in genetics and plant breeding, capable in the field and laboratory, and appreciate the applied as well as basic nature of horticultural problems and solutions. Along with that will be longevity and the ability to serve in many capacities within an organization and to be a worldwide ambassador for horticulture. Those qualities represent a snapshot of the breadth of his contributions—the details and depth are best gained from a review of his professional vitae and accomplishments.

Seminal Accomplishments

Jules Janick, James Troop Distinguished Professor at Purdue University (BS, Cornell University, 1951; MS, 1952, and PhD, 1954, Purdue University), has and continues to have a long and distinguished career devoted to horticulture in all its facets. He has become one of the best-known personalities in horticultural science. In horticultural research, he and his students have made important advances in the genetics of sex determination, including the synthesis of heteromorphic sex chromosomes, fire blight resistance, cleistogamy, cucurbitacins, artemisinin production, and anthocyanin pigmentation, as well as *in vitro* metabolite production from somatic embryos and the production of synthetic seed. In crop improvement, he has been associated with the release of 21 scab-resistant apple cultivars, three pear cultivars with tolerance to fire blight, delayed-bolting arugula, crack-resistant tomato for Brazil, and the first release of a cultivar (pelargonium) from somaclonal variation. He has received 6 utility patents, 23 plant patents, and 1 plant variety patent.

Professor Janick has made significant contributions to the historical aspects of horticulture and explored the relation of art and horticultural technology. He has been actively involved in studies on the iconography of *Rubus*, Cucurbitaceae, and Solanaceae and opening up new approaches to the study of crop origins, diversity, and evolution. He is a popular lecturer in this field around the world. The scab-resistant

apples cooperative program with the University of Illinois and Rutgers (PRI) has made a significant contribution to world pomology and has been a boon to orchards and gardens in America and the world.

Janick has been a prolific author and editor in horticulture. So far in his career, he has written or edited 159 volumes, a truly prodigious achievement. He has authored 61 book chapters, and 427 papers, of which half are in refereed journals.

Long-Term Service to Horticulture

Some of the positives that he stimulated in his students were a desire to contribute and an eagerness to share via writing and publication. Jules certainly epitomizes someone who has implemented his own advice. He has been both a prolific writer and an exemplary editor. Dr. Janick was the editor of *HortScience* from 1970 to 1983 (14 volumes) and transformed it into one of the major journals in horticulture and was the editor of the *Journal of the American Society for Horticultural Science* from 1976 to 1983 (8 volumes). He is the founder and continues as the editor of both *Horticultural Reviews* (44 volumes since 1979) and *Plant Breeding Reviews* (40 volumes since 1983). From 2002 to 2011, he was the science editor of *Chronica Horticulturae* (9 volumes) and has transformed this publication from a sleepy house organ into a significant magazine of world horticulture.

Janick has been a leader in new crops and edited seven volumes of proceedings of new crop conferences since 1990 that have had a deep impact on new crop information. The development of New Crop, a website on world crops (www.hort.purdue.edu/newcrop), has become a major world resource that annually receives about 30 million hits and has 11 million pages downloaded. He has edited 11 volumes of *Acta Horticulturae* for the International Society of Horticultural Science (ISHS) and three volumes of *Scripta Horticulturae*. He served as editor-in-chief for the American Society of Horticulture Science (ASHS) Press. Professor Janick is the author of *Horticultural Science* (4 editions), an influential textbook that has been translated into Spanish, Portuguese, Arabic, and Hindi. Another text *Crop Science: An Introduction to World Crops* has gone through three editions. He has organized a number of monographs on fruit breeding, including *Advances in Fruit Breeding* (translated into Chinese, Russian, and Spanish), *Methods in Fruit Breeding*, and a three-volume update of *Advances* entitled *Fruit Breeding*. Dr. Janick has served on the editorial board of the award-winning three-volume *Food and Culture* (2003) and coedited the CABI *Encyclopedia of Fruit and Nuts* (2006).

Academic Teaching and Training

In his academic career, Janick has taught numerous courses in genetics, plant breeding, and horticulture. He lectured in Portuguese during a 2-year appointment at the Rural University of Minas Gerais, Brazil, and has taught at the Scuola Superiore Sant'Anna, University of Pisa as a Fulbright Distinguished Lecturer and, at the same time, collected arugula germplasm at the U.S. National Germplasm Repository. He has been a leader in distance education and his two courses *History of Horticulture* and *Tropical Horticulture* can be accessed online (www.hort.purdue).

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edu/newcrop go to Current Projects). He now teaches 500 students per year. He has mentored 12 MS and 18 PhD students.

Jules Janick is also a synthesizer and collector of useful information. He has developed courses in the history of horticulture, for example, that are the first example of which I am aware that bring together the many disparate fields that make up the science of horticulture. His point of view is unique, his analysis is sharp, and his contributions are beyond what any single individual has offered.

Recognitions and Honors

Jules 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 Cluj-Napoca, Romania (2010). He served as the president of the American Society for Horticultural Science (ASHS) in 1986–1987, is the recipient of many honors from ASHS, including Fellow in 1976, Stark Award in 1978 and 1982, Wilson Popenoe Award in 1980, Kenneth Post Award in 1981, N.F. Childers Award in 1982, Vegetable Publication Award in 1986, and Distinguished International Horticulturist Career Award in 2003, 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 recipient of the Horticultural Writing Award of the American Horticultural Society (2001), the Milo Gibson award 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, ISHS, AAAS, Horticultural Society of India, and the Portuguese and Romanian Horticultural Societies.

Leadership

Jules Janick's professional career for 62 years has contributed to progress in horticulture and plant breeding. He has been a passionate leader in world horticulture through his efforts in expanding knowledge and appreciation of horticulture in science, art, and history. Among his outstanding achievements are the founding of two review journals: *Horticultural Reviews* in 1979 and *Plant Breeding Reviews* in 1983. Professor Janick has been the sole editor of both publications since its inception. These are open-ended series, presenting long academic reviews on the state of the art of horticulture science and the genetic enhancement on a broad range of crops. At the present time, volume 44 of *Horticultural Reviews* and volume 40 of *Plant Breeding Reviews* are in press. Every year, he seeks new authors for manuscripts that bridge the gap between the specialized researcher and the broader community of plant scientists regarding various facets of horticulture and plant breeding. Each volume is dedicated to someone who has made outstanding achievements in horticulture or plant breeding. At the present time, 75 people have been honored, mostly during their lifetime. In the case of *Plant Breeding Reviews*, dedicatory chapters provide a resource for the history of modern plant breeding.

Janick has been a leader in international horticulture with an 8-year stint on the board of directors of the International Society of Horticultural Science. He has served as an advisor to and external reviewer of several capacity-building and development projects throughout the world. He has served as a consultant to the UN Food and Agricultural Organization, World Bank, Sweden, China, England, and Portugal.

The impact that Jules Janick has had on horticulture has not been confined to the United States. The list of countries that he has visited while participating in meetings, consulting, conducting research, advising, and teaching is a lengthy one and includes Argentina, Australia, Bahamas, Belgium, Brazil, Canada, Canary Islands, Columbia, Costa Rica, Crete, Ecuador, Egypt, England, Finland, France, Germany, Hungary, Indonesia, Israel, Italy, Ivory Coast, Japan, Korea, Mexico, Morocco, New Zealand, Norway, People's Republic of China, Poland, Portugal, Puerto Rico, Spain, Sweden, The Netherlands, Tanzania, and Turkey.

Service to the Profession

Jules Janick continues to devote his long career to horticulture in its many aspects both nationally and internationally. His career is based on research contributions in genetics and breeding, to undergraduate and graduate education, and to promoting the interrelationship of horticulture, art, and human culture. He is well known as a prolific author and a demanding but constructive editor of journals, review series, monographs, proceedings, encyclopedias, and websites. His lasting contribution to horticulture will be found in the achievements of his students, the germplasm of his fruit and vegetable introductions, his contributions to the horticultural literature in both science and culture, and his achievements in organizing the accomplishments of horticulturists and horticulture in an archival form.

In summary, Jules Janick is a distinguished scientist, teacher, author, and editor recognized for his devotion to horticulture in science and art for the well-being of humankind. His career exemplifies the spirit of the Morrill Acts of 1962 and 1890, which established land grant colleges devoted to education and research in the field of agriculture for both ordinary and extraordinary men and women. Professor Janick has become one of the best-known personalities of world horticulture. He believes that horticulture provides food for the body and soul. His credo has been that advances in horticulture throughout the centuries represent some of the greatest human accomplishments for the betterment of humanity.

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