

## **Richard G. Hawke**

Plant Evaluation Manager  
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My primary research is the comparative evaluation of ornamental plants, predominately herbaceous perennials, to determine the best garden plants for the Upper Midwest and areas with similar climatic conditions. I am also involved in testing the invasive potential of ornamental plants, specifically *Miscanthus* (miscanthus) and *Persicaria/Polygonum* (smartweed). In addition, a project to evaluate a variety of native and cultivated plants for use on green roofs began in 2010.

Upon completion of an evaluation trial, the results are published in *Plant Evaluation Notes*, a Chicago Botanic Garden publication that reports our findings to the green industry and home gardeners. The Plant Evaluation Program received the Award for Program Excellence from the American Public Garden Association in 2008.

### **Education**

B.S., Horticulture, 1981, University of Wisconsin-Madison.

### **Professional Employment**

*June 2000 – present.* Plant Evaluation Manager, Chicago Botanic Garden, Glencoe, Illinois. Provides leadership for the development, implementation, promotion, and administration of the Plant Evaluation Program, in addition to all ongoing tasks outlined as Coordinator (below). Oversees financial planning and budget control for the program, and participate in developing grant proposals. Develops cooperative projects with other departments within the Garden and with off-site research institutions, plant nurseries, and horticultural programs. Responsible for the evaluation of approximately 1,200 taxa of perennials, shrubs, vines, and small trees, including two green roof gardens of 16,000 square feet opened in 2009. Teaches a certificate course on Herbaceous Perennials for the School of the Botanic Garden every other year. Lectures widely on perennials, vines, and the plant evaluation program. Publishes results of trials in *Plant Evaluation Notes* as well as in horticultural industry journals and popular gardening magazines.

*March 1988 – June 2000.* Coordinator, Plant Evaluation, Chicago Botanic Garden, Glencoe, Illinois. Instrumental in developing the Plant Evaluation Program including the current evaluation scheme for data collection. Originator and primary author of *Plant Evaluation Notes*, a periodic publication to report the results of the trials. Developed cooperative projects with other evaluation programs at the government and private level, including the USDA, plant societies, nurseries, and universities. Participated in the Garden's plant exploration trips to South Korea and Siberia. Responsible for all curatorial duties including accessioning, labeling, mapping, taxonomic verification, and photographic documentation of the plant evaluation collection. Taught numerous courses for the School of the Botanic Garden and lectured widely.

*December 1985 – March 1988.* Plant Evaluator, Chicago Botanic Garden, Glencoe, Illinois. Assisted with the evaluation of plants, and the development of cooperative projects with other botanical institutions and plant societies. Taught classes at the Garden and promoted the program through lectures and tours.

*December 1984 – December 1985.* Curatorial Assistant, The Holden Arboretum, Kirtland, Ohio. Responsible for the curatorial duties related to five plant collections, including maples, specimen trees, shrubs, nut-bearing trees, and minor fruits. Duties included inventory, evaluation, taxonomic verification, mapping, maintenance, and writing an annual report.

### **Synergistic Activities**

Principle evaluator of test plants for the Chicagoland Grows™ plant introduction program, including all perennials from the Chicago Botanic Garden's breeding program, trees and shrubs from The Morton Arboretum, and other plants in the program.

Collaborator on the Perennials in Focus association for the evaluation and promotion of new and underused perennials for the greater Chicago region.

Collaborator with 10 plant introduction programs and plant breeders for the evaluation of new ornamental plants.

Recommends and expedites the transfer to the permanent plant collections at CBG all the best performing plants from the evaluation program.

Developed the data collection scheme for the plant evaluation program at Chicago Botanic Garden.

PI on Institute of Museum and Library Services funded project to develop database and website (ePlants) to reach green industry professionals, students, municipalities, and avid gardeners with performance data from Chicago Botanic Garden trials (2000-2006).

PI on Perennial Plant Association funded project to evaluate commercially available *Tradescantia* cultivars (2005-2009).

Instructor for the School of the Chicago Botanic Garden's Certificate Courses in Herbaceous Perennials and Ground Covers and Vines.

Member of the development team for Best Plants of Illinois website.

Recipient of the 2005 Academic Award for Teaching Excellence from the Perennial Plant Association.

PI on Illinois Landscape Contractors Association funded project to evaluation wild-collected germplasm from Altai Region expedition in Siberia.

Participated in the development of the Garden's Invasive Species Policy. Evaluates all plant with unknown invasive and ornamental potential resulting from international plant exploration trips by the Garden.

Member of the Garden's Plant Exploration Committee.

## Nonrefereed Publications

2010. *Stachys* spp., *NMPro*, July, Vol. 26, No. 7, p. 10.
2010. Comparative Studies of *Veronica* and *Veronicastrum*, *Perennial Plants*, Spring, pp. 6-22.
2010. American Beauties: Baptisias, *The American Gardener* 89(2):24-29.
2010. Comparative Studies of *Veronica* and *Veronicastrum*, *Plant Evaluation Notes*, Issue 33.
2009. A Comparative Study of *Platycodon grandiflorus* Cultivars, *Perennial Plants*, Fall, pp. 36-42.
2009. A Heavy-blooming Clematis, *Fine Gardening*, December, No. 130, p. 23
2009. *Platycodon grandiflorus* is a good companion to other summer-blooming perennials. *NMPro*, August, pp. 53-57.
2009. A Comparative Study of *Platycodon grandiflorus* Cultivars, *Plant Evaluation Notes*, No. 32.
2009. A Performance Appraisal of Hardy Bellflowers, *Perennial Plants*, Winter, pp. 11-23.
2008. A Performance Appraisal of Hardy Bellflowers, *Plant Evaluation Notes*, No. 31.
2008. Bold Rodgersias. *Chicagoland Gardening*, November/December, pp.12-13.
2008. Trial Rates Shasta Daisy Cultivars. *NMPro*, May 2008, pp. 34-38.
2008. 20 Great Plants Worth Knowing and Growing. *Quarterly Northwest*, Vol. 1, No. 2, pp. 54-57 and p. 123.
2008. Carefree Cranesbills. *The American Gardener*, May/June, Vol. 87, No. 3, pp. 16-21.
2008. Flowering Perennials for Sun, Midwest Regional Report, *Fine Gardening*, May/June, No. 121, p. 62.
2008. A Report on *Leucanthemum ×superbum* and Related Daisies, *Perennial Plants*, Winter, pp. 7-22.
2007. A Report on *Leucanthemum ×superbum* and Related Daisies, *Plant Evaluation Notes*, No. 30.
- 2007: Versatile Switch Grass. *Chicagoland Gardening*, November/December 2007, pp.10-11.
2007. Trial Rates Catmint Cultivars. *Nursery Management & Production*, November, pp.42-46.
- 2007 Bugbanes: Made for Shade. *Chicagoland Gardening*, September/October 2007, pp.16-17.
2007. *Thalictrum*: a study of Meadow Rue. *Perennial Plants*, Spring, pp. 9-21.
2007. Lofty Balloon Flower. *Chicagoland Gardening*, July/August, pp.16-17.
2007. A Comparative Study of Cultivated Catmints. *Plant Evaluation Notes*, No. 29.
2007. *Geranium macrorrhizum* (Bigroot Geranium). *Horticulture*, Vol. 104, No. 4, p. A8.
2007. Comparative Evaluation of Commercially Available *Tradescantia* Cultivars. *Perennial Plants*, Winter, pp. 17-25.
2007. Spiky Speedwells. *Chicagoland Gardening*, May/June, pp.24-25.
2007. Lady's Mantles are the Perfect Foil. *Chicagoland Gardening*, March/April, pp.16-17.
2007. An Evaluation Report of Meadow Rues for Full-Sun Gardens. *Plant Evaluation Notes*, No. 28.
2007. A Tale of Two Vines. *Chicagoland Gardening*, January/February, p. 11.
2006. Hardy Euphorbias. *Chicagoland Gardening*, November/December, p. 9.
2006. Autumn's Asters. *Chicagoland Gardening*, September/October, p. 15.
2006. Shasta Daisies Brighten Midsummer Gardens. *Chicagoland Gardening*, July/August, p. 16-17.
2006. A Kindle of Catmints. *Chicagoland Gardening*, May/June, p. 17-18.
2006. 'Gold Heart' Bleeding Heart. *Horticulture*, May, Volume 103, Number 4, p. A3.
2006. Evaluation of *Stachys*. *Perennial Plants*, Number 2, pp. 54-62.
2006. Extolling the Virtues of Bellflowers. *Chicagoland Gardening*, March/April, p. 18-19.
2006. Proven Perennials. *Chicagoland Gardening*, January/February, p. 10.
2005. A Comparative Study of Cultivated *Stachys*. *Plant Evaluation Notes*, No. 27.
2005. Proven Perennials. *Chicagoland Gardening*, January/February, p. 10.
2005. A Garden Study of Sundrops and Evening Primroses. *Perennial Plants*, Number 3, pp. 47-57.
2005. The Glow of Winterberry. *Chicagoland Gardening*, November/December, pp. 10-11.
2005. Sundrops and Evening Primroses. *Chicagoland Gardening*, September/October, pp. 18-19.
2005. Capable Coreopsis. *Chicagoland Gardening*, July/August, pp. 20-21.

2005. Evaluation of *Alchemilla mollis*. *Perennial Plants*, Number 2, pp. 32-38.
2005. Herbaceous Clematis. *Chicagoland Gardening*, May/June, pp.
2005. *Saruma henryi*: A fetching woodland perennial. *Fine Gardening*, May/June, No. 103, p. 18.
2005. A Look at Lady's-mantles. *Nursery Management & Production*, Vol. 21, No. 1, pp.84-86.
2005. A Wealth of Meadow Rues. *Chicagoland Gardening*, March/April, pp. 20-21.
2005. Hot Perennials. *American Nurseryman*, February 15, Issue 4, Volume 201, pp. 34-39.
2005. *Clematis* 'Evisix': a noteworthy nonvining clematis. *Fine Gardening*, January-February, p. 24.
2005. Lamium Earns Its Stripes. *Chicagoland Gardening*, January/February, p. 10.
2005. A Garden Study of Sundrops and Evening Primrose. *Plant Evaluation Notes*, No. 26.
2004. Hardy Geraniums for Northern Gardens. *Perennial Plants*, Fall, pp. 7-34.
2004. An Evaluation Study of *Alchemilla*. *Plant Evaluation Notes*, No. 24.
2004. Summersweet Clethra. *Chicagoland Gardening*, November/December, pp. 14-15.
2004. Plant Evaluations at the Chicago Botanic Garden. *Proceedings of the 2002 Perennial Plant Association Symposium*, pp. 25-26.
2004. *Leucanthemum*  $\times$  *superbum* 'Becky': 2003 Perennial Plant of the Year. *Proceedings of the 2002 Perennial Plant Association Symposium*, pp. 27-28.
2004. Fall-blooming Anemones. *Chicagoland Gardening*, September/October, pp. 14-15.
2004. Hardy Geraniums for Northern Gardens. *Plant Evaluation Notes*, No. 22.
2004. Blazing Stars Brighten the Midsummer Garden. *Chicagoland Gardening*, July/August, p. 13.
2004. *Echinacea tennesseensis*. Field Notes. *American Nurseryman*, June 1, Issue 11, Volume 199, p. 86.
2004. Hardy Geraniums. *Chicagoland Gardening*, May/June, p. 20.
2004. An Evaluation Study of Coral Bells. *Perennial Plants*, Spring, pp. 20-32.
2004. False Indigos Test True in Perennial Beds. *Chicagoland Gardening*, March/April, p. 14.
2004. Garden-Worthy Artemisias. *Chicagoland Gardening*, January/February, p. 12.
2003. An Evaluation Study of Coral Bells. *Plant Evaluation Notes*, No. 21.
2003. Lamb's Ears and Betonies (*Stachys*). *Chicagoland Gardening*, November/December, pp. 14-15.
2003. Hardy Sages. *Chicagoland Gardening*, September/October, pp. 14-15.
2003. Garden-Worthy Artemisias. *Perennial Plants*, Spring, pp.7-19.
2003. Monarda for the Summer Garden. *Chicagoland Gardening*, July/August, p. 16.
2003. What Color is Your Yarrow? *Chicagoland Gardening*, May/June, p. 20.
2003. Garden-worthy Artemisias. *Plant Evaluation Notes*, No. 19.
2003. Colorful Coral Bells. *Chicagoland Gardening*, March/April, p. 14.
2003. Spring-blooming Barrenworts for the Shade Garden. *Chicagoland Gardening*, Jan/Feb, p. 27.
2002. Blue Star Shines in Trials in the Midwest. *The American Gardener*, Vol. 81, No. 5, p. 14.
2002. An Appraisal of *Pulmonaria* for the Garden, Part 2. *Pulmonaria Newsletter*, November, pp. 12-14.
2002. Plant Evaluations at the Chicago Botanic Garden. *Perennial Plants*, Autumn, pp. 11-14.
2002. Boxwoods for Northern Gardens. *Chicagoland Gardening*, November/December, p. 12.
2002. Hardy Amsonia. *Perennial Plants*, Summer, pp. 29-41.
2002. *Pulmonaria*. *Perennial Plants*, Spring, pp. 33-42.
2002. Coneflowers: Anything but Ordinary. *Chicagoland Gardening*, September/October, p. 12.
2002. A Flock of Phlox for the Garden. *Chicagoland Gardening*, July/August, p. 13.
2002. Clematis for Northern Gardens. *Chicagoland Gardening*, May/June, p. 36.
2002. An Appraisal of *Pulmonaria* for the Garden, Part 1. *Pulmonaria Newsletter*, March, pp. 9-15.
2002. Bluestars for Northern Gardens. *Chicagoland Gardening*, March/April, p. 41.
2002. An Evaluation Study of Hardy *Amsonia*. *Plant Evaluation Notes*, Issue 18.
2002. Garden-worthy *Pulmonarias*. *Chicagoland Gardening*, January/February, p. 11.
2001. An Appraisal of *Pulmonaria* for the Garden. *Plant Evaluation Notes*, Issue 17.

2001. Addressing Powdery Mildew on Phlox. *Fine Gardening*, November-December, pp. 80-81.
2001. Autumn-blooming Toad Lilies. *Chicagoland Gardening*, November/December, p. 11.
2001. Bay Laurel. *Garden Talk*, Vol. 16, No. 6, p. 2.
2001. An Evaluation Study of *Tricyrtis*. *Plant Evaluation Notes*, Issue 16.
2001. Tops in Toad Lilies. *NMPro*, September, pp. 51-54.
2001. Goldenrods. *The Gardener*, Vol. 1, No. 3, p. 7.
2001. Great Goldenrods for the Garden. *Chicagoland Gardening*, September/October, p. 35.
2001. Which Goldenrods Rule. *NMPro*, August, pp. 59-63.
2001. Chicago Botanic Garden Evaluates Goldenrod. *Plant Propagator*, Vol. 13, No. 2, pp11-12.
2001. An Evaluation Report of Goldenrods for the Garden. *Perennial Plants*, Spring, pp. 11-24.
2001. Grading Goldenrods. *The American Gardener*, Vol. 80, No. 2, p. 13.
2001. Chicago Botanic Garden Identifies Hardy Goldenrod. *American Nurseryman*, Vol. 193, pp. 12.
2000. Breeding and Evaluation of Perennials at Chicago Botanic Garden. *Combined Proceedings International Plant Propagators' Society*, Vol. 50.
2000. An Evaluation Report of Goldenrods for the Garden. *Plant Evaluation Notes*, Issue 15.
2000. A Performance Appraisal of Hardy Sages. *Plant Evaluation Notes*, Issue 14.
1999. An Evaluation Report of Selected Phlox Species and Hybrids. *Plant Evaluation Notes*, Issue 13.
1999. Clematis: The Queen of Vines. *Flowering Vines*. Brooklyn Botanic Garden Gardening Series.
1998. Monarda and Powdery Mildew Resistance. *Plant Evaluation Notes*, Issue 12.
1997. An Evaluation Report of Shrub Roses. *Plant Evaluation Notes*, Issue 11.
1997. Clematis for Northern Gardens. *Plant Evaluation Notes*, Issue 10.
1997. Climbing to the Top. *American Nurseryman*. Volume 186, Issue 7, pp. 44-67.
1997. Pullman Evaluation Garden symbolizes history. *Garden Talk*. Volume 12, Number 6, p. 6.
1996. A Performance report of Cultivated Blazing Stars. *Plant Evaluation Notes*, Issue 9.
1995. *Rudbeckia* for Cultivated Landscapes. *Plant Evaluation Notes*, Issue 8.
1994. Boxwoods for Northern Midwest Landscapes. *Plant Evaluation Notes*, Issue 6.
1994. A Performance Report of Cultivated Yarrows (*Achillea*). *Plant Evaluation Notes*, Issue 5.
1994. Annual Vines. *Hybrid*. Volume 23, Number 2, p. 4.
1993. *Hibiscus moscheutos* Cultivars and Horticultural Hybrids. *Plant Evaluation Notes*, Issue 4.
1992. A Bamboo Performance Report. *Plant Evaluation Notes*, Issue 3.
1991. The Evaluation/Introduction of a Unique Dwarf River Birch. *Plant Evaluation Notes*, Issue 2.
1991. Performance Appraisal of Selected Small-leaved Rhododendrons. *Plant Evaluation Notes*, Issue 1.

### **Teaching Experience and Awards**

Lecturer and Lab Instructor for Herbaceous Perennials, Certificate Program, School of the Botanic Garden, 1999-2009.

Lecturer and Lab Instructor for Ground Cover and Vines, Certificate Program, School of the Botanic Garden, 2000-2004.

Instructor for numerous enrichment classes for the School of the Botanic Garden, 1986-2010.

Herbaceous plants instructor for IIT Master of Landscape Architecture course on ornamental plants, Fall 2009.

Over 200 lectures given to professional organizations, plant societies, and garden clubs since 1986.

Recipient of the 2005 Academic Award for Teaching Excellence from the Perennial Plant Association.

*Stachys officinalis* 'Pink Cotton Candy', 2010 introduction, Chicagoland Grows Plant Introduction Program. (PPAF).

The Chicago Botanic Garden's Plant Evaluation Program received the 2008 Award for Program Excellence from the American Public Gardens Association.

### **Plant Exploration Experience**

Participated on plant exploration trips to Central Siberia in 1993 and to South Korea in 1989, helped plan trips to China (1996), and Russian Far East (1997), and SE United States (1998).

### **Funded Grants**

Principle investigator, comparative evaluation of commercially available *Tradescantia* cultivars, \$3,240. Perennial Plant Association, 2005.

Principle investigator, technology needs for the Plant Evaluation Program, \$10,000. Stanley Smith Horticultural Trust, 2001.

Principle investigator, development of a plant evaluation web site, \$102,000. IMLS National Leadership Grant, 2001.

Principle investigator, publication of four issues of *Plant Evaluation Notes*, \$16,000. Stanley Smith Horticultural Trust, 2000.

Principle investigator, evaluation of plants from Siberian expedition, \$2,300. Illinois Landscape Contractors Association, 1993.

Principle investigator, publication of bamboo research in *Plant Evaluation Notes*, \$1,700. Illinois Landscape Contractors Association, 1992.

### **Collaborators and Other Affiliations**

Raymond Evison (Guernsey Clematis Nursery), Linda Jones (Royal Horticultural Society, Wisley), Dr. Laura Jull (University of Wisconsin Madison), Michael Marriott (David Austin Roses), Paul Saunders (National Boxwood Trials Program), Dr. Steven Still (Perennial Plant Association), Dr. Mark Widrlechner (USDA NC-7 Plant Introduction Program), Dr. Richard Bir, North Carolina State University, Dr. Leonard Perry (University of Vermont), Dr. Susan Hamilton (University of Tennessee), Dr. Campbell Davidson (Morden Research Station, Canada), American Boxwood Society, Holly Society of America, American Ivy Society, Dr. Jim Ault (Chicago Botanic Garden and Chicagoland Grows Program), and Dr. Kayri Havens (Chicago Botanic Garden).

Cooperative evaluation programs currently underway: Ball Horticultural/Darwin Plants (USA), Jelitto Perennial Seeds (Germany), Plants Nouveau (USA), Terra Nova Nurseries (USA), USDA NC-7 Program, David Austin Roses (England), Blooms of Bressingham (England), Intrinsic Perennial Gardens (USA), Proven Winners (USA), Walters Gardens (USA), and deVroomen Nursery (Holland).

Communications co-coordinator and plant evaluator for the Perennials in Focus plant evaluation team (<http://www.perennialsinfocus.com/>).

Committee member of the Plant Collections and Plant Nomenclature sections within the American Public Gardens Association.

Member of American Public Gardens Association, Perennial Plant Association, Garden Writers Association, and the American Horticultural Society.