



HORTICULTURAL RESEARCH INSTITUTE 2004 RESEARCH GRANTS

The Horticultural Research Institute Executive Committee met in November in Baltimore, Maryland, for their annual grants funding retreat. The Committee considered 120 applications for funding and granted \$205,000 to 17 high-priority projects and four scholarships. The Committee determined these projects best meet the needs of the industry and have quality scientific merit that will result in new knowledge and techniques to deal with major industry issues.

HRI is actively partnering with other associations to increase industry research. Most notably HRI has partnered with the USDA Agricultural Research Service. Scott Cameron, USDA-ARS, National Program Staff attended the Executive Committee's grant deliberations. Through these partnerships, HRI has played a direct or advisory role in investing more than \$2.5 million in industry research. These partnerships represent an extraordinary advancement of HRI's mission to be a clearinghouse for nursery and landscape research.

CROP PRODUCTION

ENVIRONMENTAL STRESS REDUCTION

Funded: \$25,000, *Development of New Landscape Plants for all Regions of North America:*

Dr. Harold Pellett and Sarah Doane—Landscape Plant Development Center, Mound, MN.

Rita Hummel—Washington State University, Puyallup, WA.

Peter Podaras—Cornell University, Ithaca, NY.

Funded: \$10,000, *Root Hardiness and Influence of DNA Herbicides in Overwintered Containers:*

Drs. Hannah Mathers and Stephen Myers—Ohio State University, Columbus, OH.

Funded: \$25,000, *Tree Liners Affected by Bareroot Production Practices:*

Dr. Donna C. Fare—USDA-ARS, US National Arboretum, McMinnville, TN.

Dr. James Altland—Oregon State University, Aurora, OR.

PROPAGATION TECHNOLOGIES

Funded: \$5,000, *A Better Auxin for Propagating Trees and Shrubs:*

Drs. William R. Graves, Jyotsna Sharma and Daniel W. Armstrong—Iowa State University, Ames, IA.

Funded: \$3,000, *Developing the Landscape Potential of Great Lakes Native Plant Species Through Plant Breeding:*

Dr. Harold Pellett—Landscape Plant Development Center, Mound, MN.

Dr. Robert E. Schutzki—Michigan State University East Lansing, MI.

Funded: \$8,500, *Development of Novel Smaller Cultivars of Ornamental Landscape Plants:*
Drs. Alan G. Smith and Carl Rosen—University of Minnesota, St. Paul, MN.

Funded: \$5,000, *The Effect of Nursery Production Practices on Tree Root Architecture and Planting Depth in the Landscape:* **Dr. Gary Watson—The Morton Arboretum, Lisle, IL.**

MARKETING/CONSUMERISM

BUSINESS MANAGEMENT

Funded: \$3,000, *ANLA's Landscape Distribution Group Operating Cost Study:*
John R. Mackay— Profit Planning Group, Boulder, CO.

BUSINESS MANAGEMENT, CONSUMER PREFERENCES, AND MARKET ANALYSIS (DOMESTIC)

Funded: \$15,000, *Structural Changes in the U.S. Nursery Industry: An Assessment of Production and Marketing Trends:* **Drs. John Brooker and Charles R. Hall—University of Tennessee, Knoxville, TN.**

PEST MANAGEMENT

GENETIC & INDUCED RESISTANCE

Funded: \$16,000, *Evaluation of Resistance and Susceptibility of Ash Species to Emerald Ash Borer:*
Drs. Daniel A. Herms and Pierluigi Bonello—Ohio State University/OARDC, Wooster, OH.
Drs. Deborah McCullough and David Smitley—Michigan State University, East Lansing, MI.

INTEGRATED PEST MANAGEMENT

Funded: \$17,000, *Adaptation of a Unique System for Efficient and Rapid Detection of Infestations of Black Vine Weevils in Container Nurseries:* **Dr. James R. Fisher— USDA-ARS, Corvallis, OR.**

Funded: \$4,000, *An Integrated Pest Management Program for Control of Viburnum Leaf Beetle in the Nursery and Landscape:* **Dr. Reeser C. Manley— University of Maine, Orono, ME.**

Funded: \$12,000, *Phytoremediation of Nursery Runoff Water Using Ornamental Plants:*
Drs. R. Thomas Fernandez, D. Bradley Rowe, and B.M Cregg, —Michigan State University, East Lansing, MI.

Funded: \$10,000, *Development of IPM Thresholds for Arthropod Pests of Woody Plants:*
Dr. Paul Weston, Cornell University, Ithaca, NY.

Funded \$15,500, *Developing Improved, Non-invasive Nursery Crops:*
Drs. Thomas G. Ranney and Sylvia Blankenship—North Carolina State University, Fletcher, NC.
Dr. Harold Pellett—Landscape Plant Development Center, Mound, MN.
Dr. Margaret Pooler— USDA, US National Arboretum, Washington, DC.

WEED CONTROL

Funded: \$15,000, *Liverwort (*Marchantia polymorpha*) Control In Container Crops:*
Dr. James Altland, —Oregon State University, Aurora, OR.
Dr. Charles Gilliam—Auburn University, Auburn University, AL.

RESOURCE MANAGEMENT – WATER

MEDIA, NUTRIENT AND WATER MANAGEMENT

Funded: \$10,000, *Finding the Balance: Calcined Clay Rate Effects in Pine Bark Substrates:*
Drs. Ted Bilderback and Stuart Warren— North Carolina State University, Raleigh, NC.

SCHOLARSHIPS

\$1,000— Carville M. Akehurst Memorial Scholarship

\$2,500— Timothy S. and Palmer W. "Bill" Bigelow, Jr. Scholarship

\$1,500— Dale and Elizabeth Deppe Scholarship

\$1,000—The Usrey Family Scholarship