

HORTICULTURAL RESEARCH INSTITUTE

Progress Through Industry Supported Research



Since 1963, the Horticultural Research Institute has directed more than \$4 million of industry funds to some 600-research projects covering the full range of production, environmental and business issues important to the trade.

The HRI Endowment Fund is the primary source of project funding. Created in 1975 as HRI's philanthropic arm, the endowment fund now stands at over \$8.2 million committed by 160 individuals, associations and corporations. The HRI Endowment Fund's principal remains invested and untouched; only the interest is tapped to fund research.

The HRI Executive Committee considered more than 100 applications for funding and granted \$335,000 to 22 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 to obtain and guide federal research dollars to critical industry research through the Floriculture and Nursery Research Initiative (FNRI). FNRI research funding now totals \$6.25 million. By leveraging federal and other sources of research funding, HRI is able to fulfill its mission to become the national clearinghouse for research and development for the nursery and landscape industry.

The following is a listing of HRI supported research for 2006. The principal investigator(s), total award amount, and the HRI endowment fund(s) selected to support the project are listed.

Crop Production

Auburn University

(Drs. Gene K. Blythe, Charles H. Gilliam,
and Jeff L. Sibley)

*Sodium Cellulose Glycolate as an Adjuvant
for Liquid Rooting Hormones in Cutting
Propagation*

\$3,000: Southern Region IPPS Fund•Martin
W. Usrey Memorial Fund

Iowa State University and Florida State University

(Drs. William R. Graves and Jyotsna
Sharma)

*A Better Auxin for Propagating Trees and
Shrubs*

\$17,500: Ed Brown Fund•Eastern Region
IPPS Fund•Florida Nurserymen & Growers
Association Fund•Hudson
Hartmann/Western Region IPPS Fund•Iowa
Nursery & Landscape Research Corporation
Fund•Hugh A. Steavenson/Forrest Keeling
Nursery Fund•Western Nursery &
Landscape Association Fund

North Carolina State University

(Dr. Thomas G. Ranney)

Breeding New Nursery Crops

\$8,000: Arie F. den Boer Memorial
Fund•Garden Council Marketing
Endowment Fund•Ray and Jane Oglesby
Fund•Spring Meadow New Plants Fund

Landscape Plant Development Center

(Dr. Harold Pellett)

Developing the Landscape Potential of Native Plants

\$3,000: Landscape Plant Development Center Fund•Esther M. Lawyer Memorial Fund•Oregon Nursery Industry Endowment Fund

Landscape Plant Development Center

(Dr. Harold Pellett)

Development of New Landscape Plants for all Regions of North America

\$28,000: Associated Landscape Contractors of America Fund•Albert and Olga Bachman Fund•Campbell & Ferrara Fund•Dundee Nursery & Landscape Fund•GCA Retail and Consumer Research Endowment Fund•Minnesota Nursery & Landscape Association Fund•Ray and Jane Oglesby Fund•Emanuel Shemin Fund•Sherman Nursery Co. Fund•Wiegand's Nursery Endowment Fund•Wholesale Nursery Growers of America Fund•Wisconsin Nursery Association Inc Fund

The Ohio State University

(Dr. Hannah Mathers)

The Influence of DNA Herbicides on Root and Shoot Hardiness During Nursery Field Overwintering

\$14,000: Fairview Evergreen Nurseries/F.C. Hetz Fund•Illinois Nurserymen's Association Fund•Ohio Research Endowment Fund

University of Georgia

(Dr. John M. Ruter)

Nickel Nutrition for River Birch and other Ornamentals

\$10,000: Johnny & Ninkie Brailsford Memorial Fund•Hans Nelson Family Trust Fund•Harold R. and Rebecca A. Nickel Fund•Sherman Nursery Co. Fund•Melvin, Dona, Richard & Debra Surface Fund•John B. and Elizabeth Wight Fund

Cornell University

(Dr. Nina Bassuk)

Root Hardiness of Woody Plants Suitable for Container Growing in Nursery and Urban Environments

\$15,000: Bruce A. and Doris Briggs Fund•Illinois Nurserymen's Association Fund•Massachusetts Nursery and Landscape Association Fund•New England Nursery Association Fund•Pennsylvania Landscape and Nursery Association Fund•Rhode Island Nursery and Landscape Association Inc Fund•Sheridan Nurseries Fund•Robert W. Turnbull Memorial Research Endowment Fund

Cornell University

(Dr. Nina Bassuk)

Evaluation and Asexual Propagation of Oak Hybrids for Environmental Stress Tolerance

\$15,000: John Flemer Memorial Fund•William Flemer Jr. Fund•Harold Harned Fund•Hoffman & McNamara Endowment Fund•Oliver A., Fred R. and Harry W. Hobbs Fund•Merten E. Natorp Fund•New York State Endowment Fund•John Pinney Fund•Thomas S. and Joyce O. Pinney, Sr. Fund•Richard Schlick Research Endowment Fund•Hugh A. Steavenson/Forrest Keeling Nursery Fund•Alma and Robert Taylor/Concord Nurseries Inc. Fund

Oregon State University

(Drs. James Altland and John Luna)

Cover Cropping and Conservation Tillage Systems for Field Grown Ornamental Production

\$27,000: Bailey Nurseries Inc. Fund•The Robert W. Baker Companies Fund•Oregon Nursery Industry Endowment Fund•J. Frank Schmidt Family Fund

North Carolina State University

(Drs. Ted E. Bilderback and Stuart Warren)

Finding the Minimum for Maximum Growth: Can Phosphorus and Potassium Inputs be Eliminated?

\$11,000: Ed and Betty Rosenthal Florikan Endowment Fund•Imperial Nurseries for Ernst Bietenholz Fund•Sylvan Nursery-Sylvia and Neil Van Sloun Fund

Colorado State University

(Drs. Yaling Qian and James E. Klett)
*Impacts of Recycled Wastewater Irrigation
on Landscape Soils and Plants*

\$16,000: American

Plantsman/Environmental Improvement
Fund•Otto Damgaard Research Endowment
Fund•Dwight Hughes Family Fund•Illinois
Landscape Contractors Association
Endowment Fund•Maschmeyer Family
Grant Fund•National Landscape Association
Fund•Sylvan Nursery-Sylvia and Neil Van
Sloun Fund

**Rutgers, The State University of New
Jersey**

(Dr. Albrecht M. Koppenhofer)
*Granular Sex Pheromone Formulations For
Oriental Beetle Mating Disruption*
\$16,000: Hess Family Fund•HRI Golf
Classic Fund•Indiana Association of
Nurserymen Endowment Fund•Siebenthaler
Patent Fund•SNA/HRI Golf Classic Fund

Pest Management

University of Minnesota

(Drs. Neil O. Anderson, Thomas Michaels
and Alan Smith)
*Development of Sterile Non-invasive
Cultivars of *Euonymus alatus* and *Buddleja
davidii**
\$7,000: Edmund V. Mezitt Fund

The Ohio State University

(Dr. Parwinder Grewal)
*Development of a New Biological Product
for Slug Control*
\$20,000: Michigan Nursery & Landscape
Association Fund•Ohio Research
Endowment Fund•William N. and Jane N.
Scarff Fund•Spring Meadow New Plants
Fund•Syngenta Professional Products
Fund•Martin W. Usrey Memorial

University of Tennessee

(Dr. Yonghao Li)
*Development of a New Technique for
Evaluating Resistance to Powdery Mildew
in Dogwood*

\$4,000: Ray Brush Fund•Hoskins, Minnie
Lee & Bonnie Shadow/Tennessee Valley
Nursery Fund•Tennessee Nursery &
Landscape Association Fund

**Virginia Polytechnic Institute & State
University and North Carolina State
University**

(Drs. Jeffrey F. Derr and Joseph C. Neal)
*Controlling New Weeds in Nurseries
and Landscapes*
\$5,000: John E. Wilde Propagation
Fund•Keiding, Inc. Fund

North Carolina State University

(Dr. Colleen Y. Warfield)
*Development of a PCR-based Detection
Assay for Foliar Nematodes in Ornamental
Host Plant Tissues*
\$13,000: Florists Mutual Insurance
Fund•Hines Nurseries, Inc. Fund•The Kraft
Family Fund•Michigan Nursery &
Landscape Association Fund•North
Carolina Association of Nurserymen
Endowment Fund•The Lydia & Palle H.
Orum Research Fund•Prides Corner Farms
Fund•Ollie and Verona Weeks Fund

University of Tennessee

(Drs. Jason B. Oliver, J. Patrick Parkman,
Tahir Rashid, and Karen Vail)
*Susceptibility of Imported Fire Ants,
Solenopsis spp., to Insecticides Applied to
Nursery Root Balls Through a Drip
Irrigation System*
\$14,000: Carolina Nurseries Research
Endowment Fund•Elma E. and John R.
Collier Memorial Trust Fund•The
Flowerwood Nursery-Plant Development
Services, Inc. Fund•Hoskins, Minnie Lee &
Bonnie Shadow/Tennessee Valley Nursery
Fund•Southern Nurserymen's Association
Fund•Tennessee Nursery & Landscape
Association Fund•Texas Nursery &
Landscape Association Fund

Resource Management

Virginia Polytechnic Institute & State University

(Dr. Robert D. Wright)

*Development of a New Container Substrate
Derived from Ground Pine Wood Chips*

\$15,000: Bailey Nurseries Inc.

Fund•Theodore and Emily

Guarriello/Nursery Supplies Inc. Fund•The

Lerio Corporation Fund•Dick and Lou

Marshall Family Fund•West Virginia

Nurserymen's Association Fund

Water Management

*Research Consortium: Identifying Nursery
Industry Priority Water Issues*

(Investigators to be determined)

\$15,000: Susan and Bob Dolibois Key

Award Fund•Frank G. Kearney Fund•Bob

and Ramona Lederer Memorial Fund•Very

Important Partners Fund•Marian T. and

Richard P. White Fund

Water Management Research

Investigations: Focused Research

Investigations on Priority Water Issues

(Investigators to be determined)

\$50,000: Bill and Gusta Adams

Fund•ANLA Centennial Fund•ANLA

Industry Honor Roll Fund•ANLA Past

Presidents Fund•Lewis

Bookwalter/Berryhill Nursery Fund•

Ed Brown Fund•Clayton A. Bunting

Fund•CANERS Fund•Harold Crawford

Fund•The Conard-Pyle Co Fund•Edwin H.

Costich Fund•Alice Crocker Horticultural

Research Fund•Flower Carpet Research

Endowment Fund•Gold Star Wholesale

Nursery Inc. Fund•William and Kathryn

Heard Fund•Allen M. Helmich Fund•John

Henry Company Fund•Betsy Boggs

Hillenmeyer Fund•Louis and Martha

Hillenmeyer Fund•Hoogendoorn Nurseries

Inc. Fund•Karl Junginger Fund•Frank S.

and Hilda P. Labar Fund•The Legacy Club

Fund•Mechanization Fund•Memorial

Fund•National Association Plant Patent

Owners Fund•Otten Bros. Nursery &

Landscaping, Inc. Fund•John and Gladys

Powell Fund•Hoskins, Minnie Lee &
Bonnie Shadow/Tennessee Valley Nursery

Fund•Sylvan Nursery-Sylvia and Neil Van

Sloun Fund•Siebenthaler Family

Fund•Avery H. Steinmetz Fund•Ernie

Tosovsky Fund•Valent Nurture

Fund•Weyerhaeuser Company Foundation

Fund•Wight Nurseries Centennial Fund

Scholarships

\$2,000: Carville M. Akehurst Memorial
Scholarship Fund

\$2,500: Timothy S. and Palmer W. "Bill"
Bigelow, Jr. Scholarships

\$2,000: Spring Meadow Nursery
Scholarship

\$2,000: The Usrey Family Scholarship



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