

PROCEEDINGS OF



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2010**

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Special thanks are extended to the sponsors of the 2010 SNA Research Conference, Bennett's Creek Nursery, Lancaster Farms, and the Horticultural Research Institute. Without the financial contributions of these sponsors, the conference could not be held. We would also like to thank the Gulf States Horticultural Expo for providing the venue for the 2010 SNA Research Conference.

We extend our gratitude to all the researchers and nurserymen who attended the 55th Annual SNA Research Conference and/or contributed to these Proceedings. You make this annual event a success.

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Using Research Data Safely and Effectively

Good research is conducted under an exact set of controlled conditions, varying only the specific treatments which are to be evaluated. Results from the specific treatments are directly applicable to your operations only if all the conditions in your operation are controlled the same as in the research. Unfortunately, this seldom happens. However, this does not mean that you cannot benefit from the research. What it does mean is that you should use the research information on a trial basis if your plant species, soil type, watering method, size and age of plant, climatic region, etc. is different than that described by the researcher.

What an alert grower should expect to gain from these research reports is ideas – ideas as to the best control for insects, disease, nematodes and weeds – labor saving ideas such as chemical pruning and using growth regulators to minimize maintenance. Also, ideas on water management, nutrition, alternative growing media, new plants for landscaping and guides for improving profits and marketing skills can also be found.

Should you desire additional information on any report, please contact the author.

THE PORTER HENEGAR MEMORIAL AWARD
for
HORTICULTURAL RESEARCH



The Southern Nursery Association (SNA) has honored Dr. Gary W. Knox, a faculty member at the University of Florida with the Porter Henegar Memorial Award during the 55th Annual SNA Research Conference. Dr. John Ruter, a past winner of the award, made the presentation during the SNA Research Conference.

Originally known as the Research Award of Merit, the recognition was created in 1968 to honor those individuals who have made outstanding contributions to ornamental horticulture research and specifically to members of the association. In 1972, the award was renamed the Porter Henegar Memorial Award in honor of one of SNA's

former Executive Secretaries. Nominations are made each year by the SNA's Director of Research and past award winners.

Dr. Knox is a Professor of Environmental Horticulture at the North Florida Research and Extension Center, University of Florida. A native of New Castle, PA, he received his B.S. degree from the Pennsylvania State University in 1974; his M.S. degree from Purdue University in 1981; and his Ph.D. from Purdue University in 1984.

Gary's interests and responsibilities include research, demonstrations and Extension activities to inform and educate members of the nursery and landscape industries (the Green Industry), residents and county Extension faculty about selection, production and use of nursery and landscape crops. His program emphasizes plant evaluation, and overall goals are to identify, evaluate and distribute taxa of new, underused or improved landscape plants to benefit the Green Industry, minimize potential impacts from pests and invasive plants, and improve the quality and diversity of plant material for the Green Industry and Florida gardeners.

Dr. Knox is well published in peer reviewed journals as well as Extension Bulletins. He was named the Outstanding Educator, by the Florida Nursery and Landscape Association in 2005; and was awarded the Commercial Horticulture Extension Programming Award by the American Society of Horticultural Science in 2001.

**The Bryson L. James
Student Research Competition
2010 Awards**

This long-standing program was renamed in August 1989, in honor of Dr. Bryson L. James, longtime Director of Horticultural Research for the Southern Nursery Association. As Dr. James has been an active participant and leader in the annual Research Conference for more than 50 years, the award, named in his honor, is a tribute to his tireless efforts on behalf of the researchers, the association and the industry. Listed below are guidelines for the Student Competition as well as this year's winners:

1. Any student of a university or a college having researchers that participate in the Southern Nursery Association Research Conference, are not more than one (1) academic year removed from graduation and whose research was completed prior to graduation are eligible to compete.
2. Research is to be that of the presenter and a part of his/her educational studies. Contract work, unless a part of a thesis or classroom report (credit given), is not acceptable, as it may provide unlimited funding and an unfair advantage.
3. The number of student papers from a single university or college may be limited, should time restraints dictate.
4. The student must have submitted a title to the SNA Conference Editor by the deadline specified in the Call For Titles. The paper should then be submitted both to the Section Editor for the Student Competition and to the appropriate "topic" Section Editor no later than the specified deadline.
5. The paper must follow the guidelines for format and subject matter as stated in the Call For Titles for the SNA Research Conference.
6. Student and advisor should be listed as co-authors.
7. Oral presentation must be limited to seven (7) minutes. An additional three (3) minutes will be allotted for questions. A penalty of two (2) points per minute or part thereof for every minute over seven (7) minutes will be assessed.
8. Judging shall be based on preparation of the paper (50 points) and oral presentation (100 points) for a total of 150 points.

2010 Bryson L. James Student Competition Award Winners

M.S. Candidates

1st Place Whitney N. Griffin
2nd Place Cody W. Kiefer
3rd Place Zachariah Starr

Auburn University
Auburn University
Kansas State University

Ph.D. Candidates

1st Place J. Kevin Parris
2nd Place Michael Martin
3rd Place Jongyun Kim

Clemson University
University of Georgia
University of Georgia

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TN	11-16	Screening to assess woody and perennial ornamental plant safety to select postemergent herbicide applications. R. M. Koepke-Hill, G. A. Armel, J. J. Vargas, P. C. Flanagan, W. E. Klingeman, J. E. Beeler, and M. A. Halcomb.
AL	16-20	Evaluation of Tower (Dimethenamid-P) for Potential Greenhouse Use. Albert Van Hoogmoed and Charles Gilliam
AL	21-23	Early Post-emergent Control of <i>Phyllanthus tenellus</i> (Longstalked Phyllanthus). Cody W. Kiefer, Charles H. Gilliam, Jeff L. Sibley, Stephen C. Marble
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SC	30-35	Optimizing in vitro Growth Conditions for Magnolia 'Ann'. J. Kevin Parris, Darren H. Touchell, and Thomas G. Ranney
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MS	40-45	DNA Fingerprinting Eastern Redbud Cultivars (<i>Cercis canadensis</i>) using SSR Markers. Timothy Rinehart, Brian Scheffler, Bob Trigiano, and Margaret Pooler
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