

PROCEEDINGS OF



RESEARCH CONFERENCE

Sixty-Fourth Annual Report

2020

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It is the fine men and women in horticultural research that we, the Southern Nursery Association, pledge our continued support and gratitude for their tireless efforts in the pursuit of the advancement of our industry.

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Special thanks are extended to the sponsors of the 2020 SNA Research Conference, Bennett's Creek Nursery and Lancaster Farms. Without the financial contributions of these sponsors, the conference could not be held.

We extend our gratitude to all the researchers and nurserymen who attended the 64th 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

ROBERT GENEVE



The Southern Nursery Association honored Dr. Robert Geneve with the Porter Henegar Memorial Award during the 64th Annual 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.

The recipient of the 2019 Porter Henegar Memorial Award is Dr. Robert Geneve, Professor, University of Kentucky, Lexington, KY, where he teaches Woody Plant Material, Plant Propagation and Topics in Plant and Soil Science. He also coordinates the internship program for HPLS horticulture and science. In addition, he is an Academic and Horticulture Club advisor.

Robert holds a Ph.D. in Horticulture from the University of Minnesota, 1982-1985. He is editor for the International Plant Propagator's Society (2018 to present), associate editor for Seed Technology (2008 to present), science editor for the North American - Scientia Horticulturae (2001 to 2009) and serves on the Editorial Board for the Propagation of Ornamental Plants (2003 to present).

Dr. Geneve is also a Fellow of the American Society for Horticultural Sciences (2005) and a Fellow of the International Plant Propagators' Society (2003). He has authored and published numerous papers, chapters and a book title Hartmann and Kester's Plant Propagation: Principles and Practices (2018). He has given numerous presentations on nursery production, propagation, irrigation, pollinators, pollination, and seeds throughout the world.

The Bryson L. James Student Research Competition 2020 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 to the Section Editor for the Student Competition 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.

2020 Bryson L. James Student Competition Award Winners

B.S. Candidates

- | | |
|----------------------|---------------------------------|
| 1. Jake Hudgins | North Carolina State University |
| 2. J. Skylar Baldwin | Mississippi State University |

M.S. Candidates

- | | |
|-------------------|---------------------------------|
| 1. Ravi Bika | Tennessee State University |
| 2. Brian Schulker | North Carolina State University |
| 3. Milan Panth | Tennessee State University |

Ph.D. Candidates

- | | |
|-------------------|---------------------------------|
| 1. Anthony Bowden | Mississippi State University |
| 2. Mary Lewis | University of Georgia |
| 3. Paige Herring | North Carolina State University |

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FL	15-20	Update on The State of the Green Industry: 2019 National Nursery Survey Results Hayk Khachatryan, Alan Hodges, Charlie Hall, and Marco Palma
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TX	22-24	Field Comparison of Crapemyrtle Bark Scale Infestations between 'Natchez' and Non- 'Natchez' Cultivars Kyle Gilder, Mengmeng Gu, Michael Merchant and Kevin M. Heinz
TX	25-30	Whitefly Populations at the Beginning and End of Poinsettia Color Production Erfan K. Vafaie, Mengmeng Gu, Brent Pemberton, David Kerns, Micky D. Eubanks and Kevin M. Heinz
TX	31-36	Host Preference of Parasitoids Imported for Control of <i>Acanthococcus lagerstroemiae</i> Kuwana on <i>Lagerstroemia indica</i> Linnaeus Kenneth E. Masloski and Kevin M. Heinz
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