

PROCEEDINGS OF



**RESEARCH
CONFERENCE**

Forty-Second Annual Report

1997

Compiled and Edited by:
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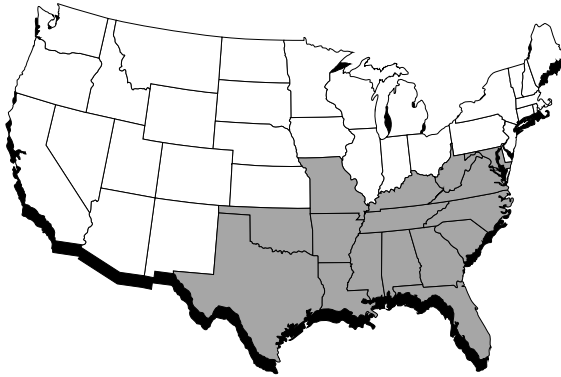
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SIXTEEN GREAT STATES AND BEYOND!



Annual SNA Research Conference

This two-day Horticultural Research Conference is held annually in Atlanta, GA in conjunction with the The World's Showcase of Horticulture® and has become world-renowned for quality research. Participants are the top horticultural research and educational leaders representing the South's top universities. All industry members are invited to attend any and all sessions. 100's of topics in twelve categories is shared in presentations approximately seven minutes each. The conference format allows you to sit in on all or only those topics of interest to you. Research presented at the conference is published in the annual publication "SNA Research Conference Proceedings" contained herein. For more information on the SNA Research Conference or the SNA Horticultural Trade Show and Convention, contact the Southern Nursery Association at:

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We would like to extend our gratitude to all the researchers and nurserymen who attended the 42nd annual conference and/or contributed to these Proceedings and continue to make this annual event an industry success.

NOTICE

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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 can not benefit from the research. What it does mean is that you should use the research information on a trial basis first, 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.

Should you desire additional information on any report, please write to the author. We would like to extend an invitation to you to attend all sessions of the SNA Research Conference held in Atlanta each year in conjunction with The World's Showcase of Horticulture®.



42nd ANNUAL
SOUTHERN NURSERY ASSOCIATION

RESEARCH CONFERENCE PROCEEDINGS
1997

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Proceedings of the SNA Research Conference is published annually by the Southern Nursery Association and one copy is provided at no charge to all SNA members, horticultural libraries and contributing authors.

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.

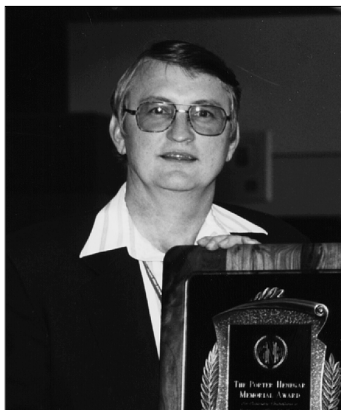
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THE PORTER HENEGAR MEMORIAL AWARD
for
HORTICULTURAL RESEARCH



Dr. Ted Whitwell
1997 Porter Henegar Memorial Award Recipient

The Southern Nursery Association honored Dr. Ted Whitwell with the Porter Henegar Award on Friday, August 2, 1997, during the 42nd Annual SNA Research Conference at SNA '97... The World's Showcase of Horticulture®. The award, originally known as the Research Award of Merit, was created in 1968 to honor those individuals who have made outstanding contributions to ornamental horticulture research and more specifically to the SNA. In 1972, the award was renamed the Porter Henegar Memorial Award to honor one of SNA's past Executive Secretaries, the late Porter Henegar. Nominations are made each year by the past four recipients and Dr. Bryson L. James, SNA Director of Research.

Whitwell received a B.S. in Agriculture at the University of Tennessee in 1972 and a M.S. in Agronomy and Ph.D. in Crop Science at Oklahoma State University in 1977. He has been recognized in *Who's Who in American Colleges and Universities*, received the Graduate Excellence Award at Oklahoma State University, won a first place award in the graduate student paper contest for the Southern Weed Society and in 1990 was awarded the Outstanding Young Scientist Award by the same society. He worked for seven years as a Researcher and an Extension Weed Scientist for Auburn University before accepting his present position at Clemson University where he is now a professor in the Departments of Horticulture and Agronomy and Soils. He has held teaching, research and extension appointments throughout his career. He has attracted over \$400,000 in grants, published 30 referred journal articles and over 92 abstracts, and has authored or been a part of over 30 papers presented at the annual SNA Research Conference.

THE
BRYSON L. JAMES STUDENT RESEARCH COMPETITION
1997 AWARDS

This long-standing program was renamed in August 1989, in honor of Dr. Bryson L. James, Director of Horticultural Research for the Southern Nursery Association. Dr. James has been an active participant and leader in the annual Research Conference for more than 30 years, and 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 the guidelines for the Student Competition as well as this year's winners:

1. Any student of a university or college having researchers can participate in the Southern Nurserymen's Association Research Workers Conference if not more than a one (1) academic year removed from graduation and whose research was completed prior to graduation.
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 since it may provide unlimited funding and an unfair advantage.
3. Previous first-place winners are not eligible.
4. The student must have submitted a title to the SNA Conference Chairman by the specified time in the Call For Titles. The paper should be submitted to the Section Chairman for the Student Paper Award no later than **July 1**. Also, a copy should be sent to the appropriate "topic" Section Editor.
5. The paper should follow the guidelines for the SNA Research Workers Conference in relation to format and subject matter.
6. The student and his 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.

1997 AWARD WINNERS

Ph.D. Candidates

1st Place	-	\$500	Laura G. Jull, North Carolina State University
2nd Place	-	\$300	Michael A. Davis, Auburn University
3rd Place	-	\$200	W.E. Klingman, University of Georgia

M.S. and B.S. Candidates

1st Place	-	\$500	Leigh Ann Klein, University of Tennessee
2nd Place	-	\$300	Mark J. Arena, University of Tennessee
3rd Place	-	\$200	Amy Fulcher, University of Kentucky

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- KY 94 - 97 The Effect of Early Radicle Pruning of Root and Shoot Development in a Red (*Quercus falcata Pogodifolia*) and White Oak (*Quercus bicolor*) Species. Tina M. Wilson, Robert Geneve and Winston Dunwell.

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