



# WEED SCIENCE SOCIETY OF NORTH CAROLINA

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Proceedings of the 35<sup>th</sup> Annual Meeting of the Weed Science Society of North Carolina  
March 16, 2017

“Weed Resistance and Herbicide Regulation”

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**Opening Remarks** – Ms. Cathy Herring, President, WSSNC

### Guest Speakers

1. *Staying Ahead of Weed Resistance and EPA Regulations*, Dr. Stanley Culpepper, University of Georgia.
2. *EPA Ins and Outs: How Business is Done*, Mr. Carlton Layne, Aquatic Ecosystem Restoration Foundation
3. *US-EPA Pesticide Registration Notices for Herbicide Resistance Management*, Dr. Craig Kleppe, BASF Corporation
4. *Utilizing Balance Bean Herbicide in Soybean Enabled with the Balance GT Trait Package*, Mr. Mark Waddington, Bayer CropScience

### Student Presentations

5. *Utilizing Hyperspectral Reflectance for Differentiation of Multiple Crop and Weed Species*, Mr. Nicholas Basinger, North Carolina State University, Department of Horticulture.
6. *Evaluation of Management Options for Glyphosate-, ALS- and PPO-resistant common ragweed in North Carolina*, Mr. Brandon Schrage, North Carolina State University, Department of Crop and Soil Sciences.
7. *Timing of Palmer Amaranth Removal on Sweetpotato Yield and Quality*, Mr. Stephen Smith, North Carolina State University, Department of Horticulture.
8. *Using Cover Crop Mulches for Weed Control in Conventional and Organic Cotton Production*, Ms. Rachel Atwell, North Carolina State University, Department of Crop and Soil Sciences.
9. *Influence of Grafting on the Critical Period for Weed Control in Watermelon*, Mr. Matthew Bertucci, North Carolina State University, Department of Horticulture.

10. *Soybean Varietal Response to Simulated Dicamba Drift*, Mr. Anthony Growe, North Carolina State University, Department of Crop and Soil Sciences.

## Panel Discussion

*Herbicide Resistance and Strategies for Management, Cooperative Extension Discussion Panel.* Led by Dr. Matthew Vann, North Carolina State University, Department of Crop and Soil Sciences.

## Guest Comments

Dr. Rich Bonanno, Associate Dean, College of Agriculture and Life Sciences, and Director, NC Cooperative Extension Service.

Dr. Alan York, North Carolina State University, Department of Crop and Soil Sciences.

## Posters

1. *Effect of Pre-Plant Nitrogen (N) Rates on Wheat Yield in Corn/Sorghum-Wheat Rotation*, Manish Bansal, North Carolina State University, Department of Crop and Soil Sciences.
2. *Utilizing Hyperspectral Reflectance for Differentiation of Multiple Crop and Weed Species*, Nicholas Basinger, North Carolina State University, Department of Horticulture.
3. *Critical Period for Weed Control in Grafted and Nongrafted Triploid Watermelon*, Matt Bertucci, North Carolina State University, Department of Horticulture.
4. *Dicamba Dose Impact on Various Maturity Group VI Soybean Cultivars*, Anthony Growe, North Carolina State University, Department of Crop and Soil Sciences.
5. *Influence of Timing of Weed Management on Weed Control and Yield of Five Agronomic Crops*, Andrew Hare, North Carolina State University, Department of Crop and Soil Sciences.
6. *Procellacor Selectively Controls Several of North Carolina's Worst Aquatic Weeds*, Erika Haug, North Carolina State University, Department of Crop and Soil Sciences.
7. *Effect of Three Different Temperatures on Dormant Monoecious Hydrilla Tuber Viability*, Amy Henry, North Carolina State University, Department of Crop and Soil Sciences.
8. *Combining Multiple Sensors to Acquire a Comprehensive Map of Lake Vegetation*, Andrew Howell, North Carolina State University, Department of Crop and Soil Sciences.
9. *Response of Dislodgeable Azoxystrobin Residue as Affected by Post-Application Irrigation Timing from Turfgrass*, Patrick Maxwell, North Carolina State University, Department of Crop and Soil Sciences.
10. *Hydrilla and Non-Target Species Monitoring*, Shannon Regan, North Carolina State University, Department of Crop and Soil Sciences.
11. *Controlling PPO-resistant Palmer amaranth using preemergence herbicides*, Theresa Reinhardt, North Carolina State University, Department of Crop and Soil Sciences.
12. *Remote Sensing Applications for Palmer Amaranth Detection*, John Sanders, North Carolina State University, Department of Crop and Soil Sciences.

13. *Confirmation of Glyphosate-, ALS- and PPO-resistant Ambrosia artemisiifolia in North Carolina*, Brandon Schrage, North Carolina State University, Department of Crop and Soil Sciences.
14. *Timing of Palmer Amaranth Removal on Sweetpotato Yield and Quality*, Cole Smith, North Carolina State University, Department of Horticulture.

### **Business Meeting**

Ms. Cathy Herring, President, WSSNC.

### **Awards and Contests**

Outstanding PhD Student – Ms. Rachel Atwell

Outstanding MS Student – Mr. Anthony Growe

First Place PhD Poster – Mr. Nicholas Basinger

Second Place PhD Poster – Mr. Matt Bertucci

Third Place PhD Poster – Mr. Brandon Schrage

First Place MS Poster – Mr. Anthony Growe

Second Place MS Poster – Mr. Cole Smith

Third Place MS Poster – Mr. John Sanders

### **Officers and Memberships**

Newly Elected Officers:

Vice President: Mr. Matt Inman, North Carolina State University, Department of Crop and Soil Science.

Executive Director (Industry): Mr. Victor Mascarenhas, Syngenta

Student Representative: Mr. Cole Smith, North Carolina State University, Department of Horticulture.

### **Distinguished Service Award**

Dr. Clyde Bogle, NC Department of Agriculture and Consumer Services, Upper Coastal Plain Research Station.

### **Adjournment**