



WEED SCIENCE SOCIETY OF NORTH CAROLINA

Proceedings of the 40th Annual Meeting of the Weed Science Society of North Carolina
March 17, 2022

“Formulating Answers to Tomorrow’s Questions”

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Opening Remarks – Dr. Bridget Lassiter, WSSNC

Guest Speakers

1. *Formulation Development: What’s in the Jug?*, Dr. Matt Cottle, Syngenta.
2. *Update on the Molecular Genetics of Weedy and Invasive Species Position*, Dr. Joe Neal, North Carolina State University, Department of Horticulture.
3. *Using Manures in Times of High Fertilizer Prices*, Dr. Stephanie Kulesza, North Carolina State University, Department of Crop and Soil Sciences.

Student Presentations

4. *Confirmation of Two Novel multiple herbicide-resistant redroot pigweed (*Amaranthus retroflexus*) populations in North Carolina*, Mr. Eric Jones, North Carolina State University, Department of Crop & Soil Science.
5. *Paraquat-resistant Italian Ryegrass Confirmed in North Carolina Row Crops*, Mr. Jose Scarparo DeSanctis, North Carolina State University, Department of Crop & Soil Science.
6. *Optimization of Heterogeneous Planting Arrangements to Maximize Yield and Weed Suppression*, Ms. Sandy Ethridge, North Carolina State University, Department of Crop & Soil Science.
7. *Effect of Preemergence Herbicides in Covington Sweetpotato*, Mr. Stephen Ippolito, North Carolina State University, Department of Horticulture.

Industry Updates

Dr. Lewis Braswell, Syngenta

Dr. Todd Spivey, Corteva

Dr. Brianne Reeves, BASF Corporation

Mr. Joshua Mayfield, FMC

Dr. Eric Blinka, Bayer CropScience

Dr. Carroll Moseley, Syngenta

Guest Comments

Dr. David Monks, Associate Director, NC Agricultural Research Service, North Carolina State University, College of Agriculture and Life Sciences.

Posters

1. *Monitoring the Non-indigenous Aquatic Nuisance Species, Hydrilla, in Flowing Water Systems*, Jens Beets, North Carolina State University, Department of Crop and Soil Sciences.
2. *Impact of Fall Planted Cover Crops and Tillage on Weed Control and Yield in Four Sweetpotato Cultivars*, Colton Blankenship, North Carolina State University, Department of Horticulture.
3. *Do Spray Volume and Nozzle Effect Cotton Response to Group 15 Herbicide Combinations?*, Brock Dean, North Carolina State University, Department of Crop and Soil Sciences.
4. *Assessing Invasiveness Potential of Brassica carinata (A.) Braun in the Southeast U.S.*, April Dobbs, North Carolina State University, Department of Crop and Soil Sciences.
5. *Evaluating the Efficacy of Florpyrauxifen-benzyl on North Carolina Noxious Weeds*, Kara Foley, North Carolina State University, Department of Crop and Soil Sciences.
6. *Interference of Palmer Amaranth (Amaranthus palmeri) in Stevia (Stevia rebaudiana)*, Stephen Ippolito, North Carolina State University, Department of Horticulture.
7. *Development of an assay to rapidly detect glufosinate resistance*, Eric A. L. Jones, North Carolina State University, Department of Crop and Soil Sciences.
8. *Subsurface Lateral Movement of Trifloxysulfuron in Turfgrass Under Saturated Soil Conditions*, Mathieu LeCompte, North Carolina State University, Department of Crop and Soil Sciences.
9. *Response of Glufosinate-tolerant Soybean to Volatility of 2,4-D and Dicamba Turfgrass Formulations in Humidomes*, Estefania Gomiero Polli, North Carolina State University, Department of Crop and Soil Sciences.
10. *Buoyancy of Common Nursery Weed Seeds in Water*, Alisha O. Ray, North Carolina State University, Department of Horticulture.
11. *Effect of Metcamifen on Trifloxysulfuron Absorption, Translocation and Metabolism in St. Augustinegrass*, Ronald Rogers, North Carolina State University, Department of Crop and Soil Sciences.

12. *Paraquat-resistant Italian ryegrass (Lolium perenne L. spp. multiflorum) Confirmed in North Carolina*, Jose H S de Sanctis, North Carolina State University, Department of Crop and Soil Sciences.
13. *Integration of Halosulfuron and Anaerobic Soil Disinfestation for Weed Control in Plasticulture Tomato Production*, Gursewak Singh, Clemson University, Department of Plant and Environmental Sciences.

Business Meeting

Dr. Bridget Lassiter, President, WSSNC.

Mr. Steve Hoyle, Retired, North Carolina State University, Department of Crop and Soil Sciences.

For the main item of business, the membership with presented with a poll to determine the fate of approximately \$69,000 currently held in a Morgan Stanley investment account. The results of the poll will be used by the board to determine if the best use of this money is: 1.) stay in the current account, 2.) transfer to the endowment account, or 3.) be split between the current account and endowment account.

Awards and Contests

Outstanding PhD Student – Dr. Levi Moore

Outstanding MS Student – Mr. Andrew Blythe

First Place PhD Poster – Mr. Jose de Sanctis

Second Place PhD Poster – Ms. Estefania Gomiero Polli

Third Place PhD Poster – Mr. Eric Jones

First Place MS Poster – Mr. Stephen Ippolito

Second Place MS Poster – Mr. Brock Dean

Third Place MS Poster – Mr. Colton Blankenship

Officers and Memberships

Newly Elected Officers:

Vice President: Dr. Charlie Cahoon, North Carolina State University, Department of Crop and Soil Science.

Executive Director (Academia): Dr. Cole Smith, North Carolina State University, The IR-4 Program

Executive Director (At-Large): Mr. Thomas “Tommy” Batts, NC Cooperative Extension, Wilson County Center

Student Representative: Mr. Jose de Sanctis, North Carolina State University, Department of Crop and Soil Sciences.

Distinguished Service Award

Mr. Donnie Hinnant, BASF Corporation.

Future Dates:

March 16, 2023

Adjournment