

## Research Report Day to the GPC Board of Directors

Wednesday, February 6, 2019 @ 9:00 a.m.

NESPAL Seminar Room, UGA Tifton Campus

\*All research reports are limited to the times indicated below.

\*Researchers should **specifically note** any information not intended for public record on their one-page summary provided.

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| 9:00 a.m.         | Call to Order, Welcoming Comments  | Donald Chase, GPC Research<br>Chairman |
| 9:05 a.m.         | Dr. Scott Tubbs presiding  |  |
| 9:10 a.m.         | The Georgia Peanut Evaluation Program  | Branch                                 |
| 9:20 a.m.         | A Holistic Solution to Using Soil Moisture<br>Data for Scheduling Irrigation   | Vellidis                               |
| 9:30 a.m.         | Using Remote Sensing to Map In-Field<br>Variability of Peanut Maturity   | Vellidis                               |
| 9:40 a.m.         | A Mobile Irrigator Pro-Based Irrigation<br>Scheduling Took for Increasing Irrigation<br>Water Use Efficiency and Yield in Peanut                   | Vellidis for Porter                    |
| 9:50 a.m.         | Establishment of a Long Term Sustainability<br>Program for Peanut Production in Georgia<br>Utilizing the Field to Market Field Print<br>Calculator | Porter                                 |
| 10:00 a.m.        | Determination of Optimal Timing for<br>Peanut Irrigation Trigger Levels  | Porter                                 |
| <b>10:10 a.m.</b> | <b>Break until 10:20 a.m.</b>  |  |
| 10:20 a.m.        | Maximizing Control of Soilborne Diseases<br>and Nematodes of Peanut with Cultivars<br>and Fungicide Application Strategies                         | Brenneman                              |
| 10:30 a.m.        | Introgression and Utilization of Pest and<br>Disease Resistance Genes from Wild<br>Species for Peanut Improvement                                  | D. Gao for Jackson                     |
| 10:40 a.m.        | Development and Evaluation of Cultivars<br>with Improved Disease Resistances to<br>Increase On-Farm Profitability                                  | Holbrook                               |
| 10:50 a.m.        | Predicting Harvest Date for New Peanut<br>Varieties and Disease Control Strategies   | Holbrook for Kvien                     |
| 11:00 a.m.        | Identification of Physiological and<br>Metabolic Mechanisms as Indicators of<br>Drought Tolerance in Peanut Plants                                 | Pilon                                  |

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| 11:10 a.m.        | Anatomical Features Contributing to Higher Peanut Yield Under Drought and Heat Stress  | Pilon               |
| 11:20 a.m.        | Single and Dual Shank Subsoiling and Inoculant Rate Evaluation for Twin Row Peanut   | Tubbs               |
| 11:30 a.m.        | Compare GA-06G to Other Peanut Cultivars for Physiological Trait Relationships for Seed Germination, Vigor, Stand Establishment and Production | Tubbs for Grey      |
| 11:40 a.m.        | Identification of New Sources of Resistance to TSWV in Wild Tetraploid Arachis for Peanut Improvement  | S. Bertoli          |
| 11:50 a.m.        | Introgression of Strong Resistance to Root Knot Nematode from the Wild Species <i>A. stenosperma</i> Into Elite Peanut Lines                   | D. Bertoli          |
| <b>12:00 noon</b> | <b><i>Lunch provided for speakers and invited guests only</i></b>  |                     |
| 12:30 p.m.        | The Peanut Foundation  | Brown               |
| 12:40 p.m.        | Adaptation of New Fungicides and Application Strategies for Control of Early & Late Leaf Spot of Peanut  | Culbreath           |
| 12:50 p.m.        | Effect of In-Furrow Seed and Foliar Insecticide Treatments on Tomato Spotted Wilt and Yield in New TSWV Resistant Cultivars                    | Culbreath           |
| 1:00 p.m.         | Development and Validation of User-Friendly Markers from the Identified QTLs for Resistance to TSWV and Leaf Spots in Breeding Selection       | Guo                 |
| 1:10 p.m.         | A Reliable Method to Assess Spotted Wilt Incidence and its Contribution to Yield Loss in Peanut Production                                     | Srinivasan          |
| 1:20 p.m.         | The Influence of Planting Dates on Water Use and Yield in Peanut: A Field Scale Evaluation   | Leclerc             |
| 1:30 p.m.         | Georgia Weather Network  | Knox                |
| 1:40 p.m.         | 2018 Hot Topics on Peanuts   | Hung                |
| 1:50 p.m.         | Marker-Assisted Breeding for Late Leaf Spot Resistance: Breeding Line Selection and Phenotyping  | Chu for Ozias-Akins |

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| 2:00 p.m. | Analysis, Development and Implementation of the 2018 Farm Bill on Georgia Peanut Producers                            | Fletcher    |
| 2:10 p.m. | A Multi-Economic Analysis Program to Enhance the Sustainability of Georgia Peanut Producers                           | Fletcher    |
| 2:20 p.m. | Peanut Revenue Insurance Program  | Luke-Morgan |
| 2:30 p.m. | Determining Biocontrol Options for Peanut Pests: A Molecular Approach   | Schmidt     |
| 2:40 p.m. | Thrips Population Monitoring  | Abney       |
| 2:50 p.m. | Biology and Management of Peanut Burrower Bug in Georgia  | Abney       |
| 3:00 p.m. | University of Georgia Agronomic Research & Extension Programs to Address Economic Sustainability of Peanut Production | Monfort     |
| 3:10 p.m. | University of Georgia Cooperative Extension County Agent Programs   | Monfort     |
| 3:15 p.m. | Georgia Peanut Achievement Club for Recognizing Whole-Farm Peanut Yields  | Monfort     |
| 3:20 p.m. | Adjourn   |             |