

Research Report Day to the GPC Board of Directors

Wednesday, February 8, 2023 @ 9:00 a.m.

NESPAL Seminar Room, UGA Tifton Campus

9:00 a.m.	Call to Order, Welcoming Comments	
9:10 a.m.	The Georgia Peanut Evaluation Program	Bill Branch
9:20 a.m.	Long-term Germplasm Enhancement and Development of DNA Molecular Marker Resources for Peanut	Nino Brown
9:30 a.m.	Start-up & Robot (Evaluation and Development of High-Throughput Phenotyping Technologies for Peanut)	Nino Brown
9:40 a.m.	Transcriptional Responses in Wild Peanut Genotypes in Comparison with GA-06G Following Thrips-Mediated TSWV Transmission	Babu Srinivasan
9:50 a.m.	Investigating and Implementing Precision Ag Practices for Site-Specific Nutrient Management in Peanuts	Simer Virk
10:00 a.m.	Investigating Spray Parameters and Precision Technologies to Improve Fungicide Applications in Peanuts	Simer Virk
10:10 a.m.	BREAK	
10:20 a.m.	Precision Peanut Planter Kit to Improve Seed Metering and Placement	Wes Porter/Glen Rains
10:30 a.m.	Adjusting In-Season Trigger Levels for Maximizing Peanut Growth and Yield	Wes Porter
10:40 a.m.	Continuance of a long term Sustainability Program for Peanut Production in Georgia Utilizing the Field to Market Field Print Calculator 2022	Wes Porter
10:50 a.m.	Incorporating Volumetric Water Content (Capacitance) Sensors into the Irrigator Pro-Based Irrigation Scheduling Tool	George Vellidis
11:00 a.m.	Development and Evaluation of Cultivars with Improved Disease Resistances to Increase On-Farm Profitability	Corley Holbrook
11:10 a.m.	Adaptation of New Fungicides and Application Strategies for Control of Early & Late Leaf Spot of Peanut	Albert Culbreath
11:20 a.m.	Effect of In-Furrow Seed and Foliar Insecticide Treatments on Tomato Spotted Wilt and Yield in New TSWV Resistant Cultivars	Albert Culbreath
11:30 a.m.	Fine Mapping and Candidate Gene Analysis of Novel QTLs for Resistance to TSWV and Leaf Spots in Peanuts	Baozhu Guo/Albert Culbreath
11:40 a.m.	Fungicide Sensitivity of <i>Sclerotium Rolfsii</i> (Causing White Mold) From Peanut in Georgia	Tim Brenneman
11:50 a.m.	Compare High Oleic Cultivars for Physiological Trait Relationships for Seed Germination and Vigor with Respect to Harvest Timing: Year 2	Tim Grey
12:00 noon	LUNCH	
12:30 p.m.	Physiological seed quality: Impact of drought at flowering and fruiting.	Cristiane Pilon

12:40 p.m.	Nonchemical-based Sprays for Triggering Host Resistance: A New Strategy to Manage Spotted Wilt Virus	Sudeep Bag
12:50 p.m.	To Investigate the Re-emergence of Tomato Spotted Wilt Orthotospovirus and its Role in Increasing Yield Loss on Peanuts Using Next-Generation Sequencing and Genomic Surveillance in GA	Sudeep Bag
1:00 p.m.	Precision Breeding for Multiple Disease Resistance	Peggy Ozias-Akins
1:10 p.m.	Biology and Management of Peanut Burrower Bug in Georgia	Mark Abney
1:20 p.m.	Rootworm Population Dynamics and Management	Mark Abney
1:30 p.m.	Impact of Seed Rate on Peanut Water-Use Efficiency and Yield: 3rd Year	Monique Leclerc
1:40 p.m.	Introgression of disease and pest resistance traits from wild species for sustainable peanut improvement	David Bertioli
1:50 p.m.	Selection of <i>A. stenosperma</i> -derived Advanced Lines with Strong Resistance to LLS Using Association Analyses	Soraya Bertioli
2:00 p.m.	Identification and utilization of new sources of resistance to White Mold in wild tetraploid <i>Arachis</i> for peanut improvement	Soraya Bertioli
2:10 p.m.	New Sources of Root Knot Nematode resistance from the Wild Species <i>A. stenosperma</i> into Elite Peanut Lines	David Bertioli
2:20 p.m.	Test the Combined Effect of High Calcium and Biocontrol in Reducing Aflatoxin: Year 2	Li Yang
2:30 p.m.	Utilizing Peanut Volatile Organic Compounds (VOCs) to Detect <i>Aspergillus</i> in Peanut Plants, Pods, and Kernels	Dan Sabo (*SPRI project)
2:40 p.m.	Analysis of Crop Insurance as a Risk Management Strategy for Georgia Peanut Producers Utilizing the Representative Peanut Farm Database	Audrey Luke-Morgan
2:50 p.m.	The Peanut Research Foundation Sustainable US Peanuts Initiative	Steve Brown /Eric Coronel
3:00 p.m.	University of Georgia Cooperative Extension County Agent Programs	Scott Monfort
3:10 p.m.	University of Georgia Agronomic Research & Extension Programs to Address Economic Sustainability of Peanut Production	Scott Monfort
3:20 p.m.	Georgia Peanut Achievement Club for Recognizing Whole-Farm Peanut Yields	Scott Monfort
3:30 p.m.	Peanut Storage Conditions Effect on Seed Respiration and Germination	Scott Monfort
3:40 p.m.	Predicting Harvest Maturity and Enhancing Yield and Quality of Peanuts Using Sensor-based System and Economic Appraisal	Ajit Mahapatra
3:50 p.m.	Adjourn	Scott Monfort