

**43<sup>rd</sup> ANNUAL MEETING  
of the**

**AMERICAN PEANUT RESEARCH AND  
EDUCATION SOCIETY**



**Menger Hotel  
San Antonio, Texas  
July 11-14, 2011**



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On behalf of APRES members and guests, the Program Committee says **“THANK YOU”** to the following organizations for their generous financial and product contributions:

### **Special Activities**

Bayer CropScience/BASF – Wednesday Dinner  
Dow AgroSciences – Thursday Awards Reception

### **Ice Cream Social**

Albaugh, Inc.	Agrisel
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AMERICAN PEANUT RESEARCH AND EDUCATION SOCIETY  
San Antonio, Texas  
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**BOARD OF DIRECTORS**

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**Local Arrangements**

Peter Dotray, Chair  
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    Jason Woodward

**Spouses' Program**

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Linda Baughman  
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Lynann Simpson  
MaryLou Starr  
Jennifer Woodward

## Monday, July 11

5:00-7:00 pm Peanut Genomics Initiative ..... Cavalier Room

## Tuesday, July 12

### Committee and Other Meetings

8:00-10:00	Seed Summit .....	Cavalier Room
10:00-Noon	Crop Germplasm Committee .....	Cavalier Room
Noon-6:00	APRES Registration .....	Ballroom Foyer
1:30-2:30	Associate Editors, Peanut Science .....	Ballroom BC
1:30-2:30	Fellows Committee .....	Ballroom BC
1:30-2:30	Joe Sugg Graduate Student Award Committee .....	Ballroom BC
1:30-2:30	Membership <i>Ad hoc</i> Committee .....	Ballroom BC
1:30-2:30	Nominating Committee .....	Ballroom BC
1:30-2:30	Site Selection Committee.....	Ballroom BC
2:30-3:30	Bailey Award Committee .....	Ballroom BC
2:30-3:30	Coyt T. Wilson Distinguished Service Award Committee .....	Ballroom BC
2:30-3:30	Dow AgroSciences Awards Committee.....	Ballroom BC
2:30-3:30	Grower Advisory Committee .....	Ballroom BC
2:30-3:30	Publications and Editorials Committee.....	Ballroom BC
2:30-3:30	Public Relations Committee .....	Ballroom BC
3:30-4:30	Finance Committee.....	Ballroom BC
3:30-4:30	Program Committee (Local Arr. & Technical).....	Ballroom BC
3:30-4:30	Peanut Quality Committee .....	Ballroom BC
3:30-4:30	By-Laws <i>Ad hoc</i> Committee .....	Ballroom BC
3:00-6:00	Presentation Loading .....	Ballroom Foyer
7:00-9:00	“Welcome to San Antonio” Ice Cream Social.....	Minuet Room

## Wednesday, July 13

### Morning

8:00-4:00	APRES Registration .....	Ballroom Foyer
8:00-9:30	Spouses' Hospitality Room (Staffed) .....	Patio Room
9:30-4:00	Spouses' Hospitality Room (Open) .....	Patio Room
7:00-8:00	Poster setup .....	Pre-function area (by Ballroom Foyer)
8:00-9:15	General Session.....	Ballroom AB
9:15-9:30	<b>BREAK</b> .....	Pre-function area
9:30-Noon	Harvesting/Processing and Utilization.....	Ballroom A
9:30-Noon	Economics/Physiology/Production Technology .....	Ballroom C
10:00-Noon	Weed Science.....	Minuet Room

### Afternoon and Evening

1:30-3:15	Joe Sugg Graduate Student Competition .....	Ballroom AB
3:30-3:45	<b>BREAK</b> .....	Pre-function area
3:00-6:00	Presentation Loading .....	Ballroom Foyer
3:45-5:00	Poster Session (with authors) .....	Pre-function area
3:45-4:45	Physiology and Seed Technology .....	Salon E
5:00-6:30	Board of Directors .....	Renaissance
5:00-6:00	Peanut CRSP .....	Cavalier
7:00-9:00	Bayer CropScience/BASF- Evening Meal .....	Ballroom ABC

## Thursday, July 14

### Morning

8:00-Noon	APRES Registration .....	Ballroom Foyer
8:00-Noon	Poster Session (no authors) .....	Pre-function area
8:00-9:30	Spouses' Hospitality Room (Staffed) .....	Patio Room
9:30-4:00	Spouses' Hospitality Room (Open) .....	Patio Room
8:00-11:00	Plant Pathology, Nematology and Entomology.....	Ballroom A
8:00-10:45	Extension Techniques .....	Ballroom C
8:00-10:30	Breeding and Genetics .....	Minuet Room
9:45-10:00	<b>BREAK</b> .....	Pre-function area

### Afternoon and Evening

1:00-2:30	Wild Species Symposium .....	Ballroom AB
2:30-2:45	<b>BREAK</b> .....	Pre-function area
2:45-4:00	Wild Species Symposium Continued .....	Ballroom AB
4:30-5:30	APRES Business Meeting .....	Minuet Room
5:30-6:30	Dow AgroSciences Awards Reception .....	Minuet and Patio Rooms Dinner On Your Own

**Wednesday, July 13 – Morning**

**GENERAL SESSION**

**Moderator:** *Todd Baughman, APRES President Elect*

**Meeting Room:** *Ballroom AB*

- 8:00 Call to Order ..... **Maria Gallo**  
APRES President
- 8:05 Welcome to San Antonio! ..... **Shelly Nutt**  
Texas Peanut Producers Board
- 8:20 National Peanut Board Update ..... **Bob White**  
..... National Peanut Board
- 8:35 NPB George Washington Carver Award Presentation ..... **Bob White**  
National Peanut Board
- 8:40 Fifty Years of Change in Southern Agriculture and  
What's Over the Horizon – An Editor's Reflections ..... **Ron Smith**  
..... Southwest Farm Press
- 9:10 Announcements ..... **Michael Franke**  
Chair, Technical Program
- 9:15 **BREAK**

## Morning

**HARVESTING, CURING, SHELLING, STORING, AND HANDLING  
PROCESSING AND UTILIZATION**

**Moderator:** *Michael Franke*

**Meeting Room:** *Ballroom A*

- 9:30 (1)** The Effect of Cultivar, Maturity, and Curing Conditions on Seed and Milling Quality. C.L. BUTTS\*, W.H. FAIRCLOTH, and M.C. LAMB, USDA, ARS, National Peanut Research Laboratory, P.O. Box 509, Dawson, GA 39842.
- 9:45 (2)** Estimating the Kernel Mass Ratio in Peanuts Nondestructively Using a Low-Cost Impedance Meter. C.V. KANDALA\* and J. SUNDARAM, National Peanut Research Laboratory, USDA Dawson, GA 39842.
- 10:00 (3)** Digital Analysis System to Evaluate Peanut Maturity: Predicting Yield and Grade. D.L. ROWLAND\*, B. Colvin Agronomy Department, The University of Florida, Gainesville, FL 32611; W.H. FAIRCLOTH, USDA-ARS, National Peanut Research Lab, 1011 Forrester Dr. SE, Dawson, GA, 39842; and J.A. FERRELL, Agronomy Department, The University of Florida, Gainesville, FL 32611.
- 10:15 (4)** Measurements of Oil Density to Rapidly Segregate High Oleic Peanuts. J.P. DAVIS\*, K.M. PRICE, L.L. DEAN, and T.H. SANDERS, USDA ARS Market Quality and Handling Research, Raleigh, NC, 27695.
- 10:30 (5)** Peanut Maturity Determination: Past, Present, and Future. J.P. BEASLEY, JR.\* , Crop and Soil Sciences Department, University of Georgia, Tifton, GA 31793-5737, G. VELLIDIS, Biological and Agricultural Engineering Department, University of Georgia, Tifton, GA 31793-5737, and W.H. FAIRCLOTH, USDA-ARS, National Peanut Research Lab, Dawson, GA 39842-0509.
- 10:45 (6)** Evaluation of an adjusted growing degree day model for improved prediction of peanut maturity. W.H. FAIRCLOTH\*, C.L. BUTTS, USDA-ARS, National Peanut Research Laboratory, Dawson, GA 39842; J.P. BEASLEY, Univ. of Georgia, Tifton, GA 31793; D.L. ROWLAND, and J.A. FERRELL, Univ. of Florida, Gainesville, FL 32611.

- 11:00 (7)** Fructose as Probe for Studying Flavor Generation and Color Development in Roasting Peanut Seed. D.A. SMYTH\*, E.M. ROSSWURM, C.I. BENSLEY, Kraft Foods EHTC-103, Research & Development, 200 DeForest Ave., East Hanover, NJ 07936.
- 11:15 (8)** Bioactivity of Solvent Extracts from Peanut Skins. L. DEAN\*, J. DAVIS, T. SANDERS, Market Quality and Handling Research Unit, USDA, ARS, Raleigh, NC 27695-7624 and W. LEWIS, K. CONSTANZA, Department of Food, Bioprocessing and Nutrition Sciences, North Carolina State University, Raleigh, NC 27695-7624.
- 11:30 (9)** Antioxidant and Anti-glycation Properties of Peanut Plants Grown by Aquatic Floating Cultivation System. R. POKKAEW\*, R.Y.-Y. CHIOU, Department of Food Science, National Chiayi University, Chiayi 60051, Taiwan, ROC.
- 11:45 (10)** Antioxidant and Anti-cancer Activities of Peanut Arahypin-5 and Other Stilbenoids. F. LI, J.-C. CHANG, D.F. DIBWE, S. AWALE, S. KADOTA, R.Y.-Y. CHIOU\*, Division of Natural Products Chemistry, Institute of Natural Medicine, University of Toyama, Toyama 9301394, Japan; and Department of Food Science, National Chiayi University, Chiayi 60051, Taiwan, ROC.

### Morning

#### ECONOMICS, PHYSIOLOGY, AND PRODUCTION TECHNOLOGY

**Moderator:** *Naveen Puppala*

**Meeting Room:** *Ballroom C*

- 9:30 (11)** Economic Analysis of Inoculants and Starter Fertilizer for Peanut Under Conservation Tillage. A.R. SMITH\*, N.B. SMITH, Department of Agricultural and Applied Economics, The University of Georgia, Tifton, GA 31793-1209; and R.S. Tubbs, Department of Crop and Soil Sciences, The University of Georgia, Tifton, GA 31793-0748.
- 9:45 (12)** Peanut (*Arachis hypogaea*) seed vigor evaluation compared to field performance. T.L. GREY\*<sup>1</sup>, J.P. BEASLEY, JR.<sup>1</sup>, J.E. PAULK<sup>1</sup>, and J.W. DAVIS<sup>2</sup>. <sup>1</sup>Crop and Soil Science Department, University of Georgia, P.O. Box 748, 115 Coastal Way, Tifton, GA 31794 and <sup>2</sup>Experimental Statistics, University of Georgia, 1109 Experiment Street, Griffin, GA 30223.

- 10:00 (13)** Field Variety Assessment of Spanish Peanuts, West Texas. CALVIN L. TROSTLE\*, SEAN WALLACE, Extension Agronomy, Texas AgriLife Extension Service, Lubbock, TX 79403-6603.
- 10:15 (14)** Rapid Single Kernel Refractive Index Test that Differentiates Regular from High Oleic Peanuts. D.S. SWEIGART\*, C.A. HOMICH, D.A. STUART, Natural Product Sciences, The Hershey Company, 1025 Reese Avenue, Hershey, PA 17033.
- 10:30 (15)** Evaluating the Potential of Variable Rate Fungicide Application to control Sclerotinia blight. C.B. GODSEY\*, Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078; J.P. DAMICONE, Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK 74078; R.K. Taylor, Biosystems and Ag Engineering, Oklahoma State University, Stillwater, OK 74078.
- 10:45 (16)** Conservation Tillage Systems for Peanut Cultivars in Rotation with Pasture in Brazil. D. BOLONHEZI\*, O. GENTILIN Jr., L-A FERREIRA NETO, Experimental Station of Agronomic Institute - APTA, Ribeirao Preto; I-J GODOY, Center of Grains and Fiber, Agronomic Institute-APTA, Campinas, Brazil; A-L-M MARTINS, C-L JUSTO, R. MOLINARI, R., Experimental Station, of Agronomic Institute – APTA, Pindorama, Brazil; A-C BOLONHEZI, Sao Paulo State University, Ilha Solteira, Brazil
- 11:00 (17)** Peanut Response to Interactions of Tillage, Planting Date, and Cultivar. D.L. JORDAN\*, W.L. DRAKE, and P.D. JOHNSON, North Carolina Cooperative Extension Service, Raleigh, NC 27695.
- 11:15 (18)** Cultivar and Digging Date effects on Peanut Peg Strength and Digging Loss. R.C. NUTI\*, USDA-ARS National Peanut Research Laboratory, Dawson, GA 39842; C. HOLBROOK, USDA-ARS Crop Genetics and Breeding Research, Tifton, GA 31793; and A. CULBREATH, Department of Plant Pathology, University of Georgia, Tifton, GA 31794.
- 11:30 (19)** Peanut Response to Starter Fertilizer, Tillage, and Planting Date Interactions. R.S. TUBBS\*, University of Georgia, Tifton, GA 31793; K.S. BALKCOM, USDA-ARS NSDL, Auburn, AL 36832; G.H. HARRIS, J.P. BEASLEY, JR., University of Georgia, Tifton, GA 31793.
- 11:45 (20)** Utilization of Two Planting Dates to Evaluate the Agronomic Performance of High-Oleic Peanut Cultivars in Georgia. W.D. BRANCH\*, Dept. of Crop and Soil Sciences, University of Georgia, Coastal Plain Expt. Stn., Tifton, GA 31793-0748.

**Morning****WEED SCIENCE**

**Moderator:** *Peter Dotray*

**Meeting Room:** *Minuet Room*

- 10:00 (21)** General Summary of Interaction Trials with Multiple Components in the Mixture. G.B. CHAHAL, D.L. JORDAN\*, B.B SHEW, and R.L. BRANDENBURG. North Carolina Cooperative Extension Service, Raleigh, NC 27695.
- 10:15 (22)** Peanut Response to Ignite (Glufosinate) in Georgia – 2010. E.P. PROSTKO\* and T.L. GREY, Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA 31793; and T.M. WEBSTER, Crop Protection and Management Research Unit, USDA/ARS, Tifton, GA 31793.
- 10:30 (23)** Peanut Response to Ignite (glufosinate) in Texas - 2010. P.A. DOTRAY\*, Texas Tech University, Texas *AgriLife* Research, and Texas *AgriLife* Extension Service, Lubbock, TX 79409-2122; W.J. GRICHAR, Texas *AgriLife* Research, Beeville, TX 78102; and L.V. GILBERT, Texas *AgriLife* Research, Lubbock, TX 79403.
- 10:45 (24)** New Peanut Variety Response to Chlorimuron. R.M. MERCHANT\* and E.P. PROSTKO, Department of Crop & Soil Sciences, The University of Georgia, Tifton, GA 31793; R.C. KEMERAIT, Department of Plant Pathology, The University of Georgia, Tifton, GA 31793; and T.M. WEBSTER, Crop Protection and Management Research Unit, USDA/ARS, Tifton, GA 31793.

**Afternoon****GRADUATE STUDENT COMPETITION**

**Moderator:** *Todd Baughman*

**Meeting Room:** *Ballroom AB*

- 1:30 (25)** Cover Crop Decomposition and Nutrient Cycling in Conventional and Strip-Tillage Peanut. D.Q. WANN\*, R.S. TUBBS, G.H. HARRIS, and J.P. BEASLEY, JR., Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793.

- 1:45 (26)** Resistance of new Peanut genotypes to Rust (*Puccinia arachidis*). I.L. POWER\*, A.K. CULBREATH, Department of Plant Pathology, The University of Georgia, Tifton, GA 31793 and B.L. TILLMAN, North Florida REC, Agronomy Department, The University of Florida, Marianna, FL 32446..
- 2:15 (27)** Agronomic and Economic Evaluation of Double-Crop and Relay-Intercropping Systems of Peanut with Wheat. J.W. MOSS\*, R.S. TUBBS, and T.L. GREY, Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793; N.B. SMITH, Department of Agricultural and Applied Economics, University of Georgia, Tifton, GA 31793; J.W. JOHNSON, Department of Crop and Soil Sciences, University of Georgia, Griffin, GA 30223.
- 2:30 (28)** Screening of the U. S. Peanut Minicore Collection for Tolerance to Verticillium Wilt and Pod Rot. M. GREGORY\*, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409; K. MOORE, AgResearch Consultants Inc., Ashburn, Georgia 31714; C.C. HOLBROOK, USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA 31793; M.D. BUROW, and J. WOODWARD, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, and Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409.
- 2:45 (29)** Relationships Between Defoliation by Late Leaf Spot and Yield in New Runner-Type Peanut Cultivars. P.A. NAVIA GINE\*, A.K. CULBREATH, Dept. of Plant Pathology, Univ. of Georgia, Tifton, GA 31793-0748; B.L. TILLMAN, North Florida REC, Agronomy Dept., Univ. of Florida, Marianna, FL 32446; C.C. HOLBROOK, USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA 31793; and W.D. BRANCH, Dept. of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793; N.B. SMITH, Dept. of Agricultural and Applied Economics, Univ. of Georgia, Tifton, GA 31793.
- 3:00 (30)** Determining the Relationship between Field Emergence and Late Leaf Spot Resistance in Peanut. S. THORNTON\*, M. GALLO, Agronomy Department, The University of Florida, Gainesville, FL 32611-0300; B. TILLMAN, Agronomy Department, North Florida Research and Education Center, University of Florida, Marianna FL, 32446-8091
- 3:15 (31)** Developing an Economic Threshold for Peanut Pod Rot in the Texas South Plains. S.A. RUSSELL\*, Texas Tech University, Lubbock, TX 79416, T.A. WHEELER, Texas AgriLife Research, Lubbock, TX 79403, , M.G. ANDERSON, Texas AgriLife Extension Service, Seminole, TX, 79360 and J.E. WOODWARD, Texas Tech University, Lubbock, TX 79416

## Afternoon

## POSTER SESSIONS

**Facilitator:** James Grichar

**Meeting Room:** Pre-function area

**Wednesday 3:45-5:00, Thursday 8:00-3:00.**

**Authors Present Wednesday from 3:45-5:00.**

- (32) Role of Naturally Derived Herbicides for Weed Control in Organic Peanut Production. W.C. JOHNSON, III\*, USDA-ARS, Coastal Plain Experiment Station, Tifton, GA 31793-0748.
- (33) A Spanish Bunch Groundnut Variety Resistant to Drought, Leaf Spots and Sucking Pests Released for AP, India. A. PRASANNA RAJESH\*, K.S.S. NAIK, D. SAMPATH KUMAR, K. VEMANA, N.C. VENKATESWARLU, AND D. LOKANADHA REDDY. Acharya N.G. Ranga Agricultural University, Agricultural Research Station, Kadiri 515 591, A.P, India.
- (34) Integrated Management of Major Diseases in Groundnut (*Arachis hypogaea*). K.VEMANA\*, N.C. VENKATESWARLU, A.P. RAJESH, K.S.S. NAIK, D.SAMPATH KUMAR, S.M. BASHA, D. LOKANADHA REDDY. Acharya N.G. Ranga Agricultural University, Agricultural Research Station, Kadiri 515 591, A.P, India.
- (35) Peanut Response to Interactions of Soil pH and Gypsum Rate. D.L. JORDAN\* and P.D. JOHNSON, North Carolina Cooperative Extension Service, Raleigh, NC 27695.
- (36) Root System of Brazilian Peanut Cultivars Grown in Different Tillage Under Sugarcane Straw. D. BOLONHEZI\*, O. GENTILIN Jr., L.A. FERREIRA NETO, Experimental Station of Agronomic Institute - APTA, Ribeirao Preto; I-J GODOY, Center of Grains and Fiber, Agronomic Institute-APTA, Campinas, Brazil; A.L.M. MARTINS, C.L. JUSTO, R. MOLINARI, R., Experimental Station, of Agronomic Institute – APTA, Pindorama, Brazil; A.C. BOLONHEZI, Sao Paulo State University, Ilha Solteira, Brazil.
- (37) Influence of Sub-lethal Rates of Dicamba, Glufosinate, and 2,4-D on Peanut Yield, Quality, and Pod Maturation. J. JOHNSON\*, D.L. JORDAN, and L.R. FISHER, North Carolina State University, Raleigh, NC 27695.
- (38) Segregation of an F<sub>2</sub> Derived Population for Leafspot Resistance. M.R. BARING\* and J.N. WILSON, Soil and Crop Sciences Department, Texas AgriLife Research, College Station, TX 77843-2474; C.E. SIMPSON and J.M. CASON, Soil and Crop Sciences Department, Texas AgriLife Research Center, Stephenville, TX 76401.
- (39) Interactions of Proline with Optimize Lift and Orthene Applied in the Seed Furrow at Planting. P.D. JOHNSON\*, D.L. JORDAN, B.B. SHEW, and R.L. BRANDENBURG, North Carolina Cooperative Extension Service, Raleigh, NC 27695.

- (40) Influence of Water Source on In-furrow Inoculant Performance Under Greenhouse Conditions. P.M. EURE\*, D.L. JORDAN, G.B. CHAHAL, and V.A. JOHNSON. North Carolina State University, Raleigh, NC 27695.
- (41) Response of Rainfed Groundnut to application of Consortia of Beneficial Micro-organisms. D.SAMPATH KUMAR\*, N.C. VENKATESWARLU, K. VEMANA, K.S.S. NAIK, A.P. RAJESH and D.L. REDDY. Acharya N.G.Ranga Agricultural University, Agricultural Research Station, Kadiri-515 591, Andhra Pradesh, India.
- (42) Evaluation of LEM17 Fungicide on Foliar and Soilborne Disease of Peanut in Texas. A.J. JAKS\*<sup>1</sup>, W.J. GRICHAR<sup>1</sup>, and J.E. WOODWARD<sup>2</sup>, <sup>1</sup>Texas Agrilife Research, Beeville, TX 78102 and <sup>2</sup> Texas Agrilife Extension, Lubbock, TX 79401.
- (43) Alternatives to Temik 15G for Thrips Control in Peanut. D.A. HERBERT, JR.\* , S. MALONE, J. SAMLER, Department of Entomology, Virginia Tech Tidewater Agricultural Research and Extension Center, Suffolk, VA 23437; T.P. KUHAR, Department of Entomology, Virginia Tech, Blacksburg, VA 24060; V. MASCARENHAS, Syngenta Crop Protection, Inc., Nashville, NC 27856; and R. WILLIAMS, E.I. DuPont de Nemours and Company, Raleigh, NC 27613.
- (44) Evaluation of Peanut Rx Programs for Controlling Foliar and Soil-borne Diseases in an Irrigated Production System in Southeast Alabama. H.L. CAMPBELL\*, A.K. HAGAN, and K.L. BOWEN, Dept of Entomology and Plant Pathology, Auburn University, AL 36849; L. WELLS, Wiregrass Research and Extension Center, Headland, AL 36345
- (45) Screening of the ICRISAT Mini-Core Collection for Possible Sclerotinia Blight Resistance and Oleic Acid Composition. K.D. CHAMBERLIN\* and H.A. MELOUK, USDA-ARS, Stillwater, OK 74075.
- (46) A High Yielding Groundnut Variety With Multiple Resistances to Biotic and Abiotic Stresses Suitable for Semi-Arid Regions of India. K.S.S. NAIK\*, A. PRASANNA RAJESH, D. SAMPATH KUMAR, K. VEMANA, N.C. VENKATESWARLU, D. LOKANADHA REDDY. Acharya N.G. Ranga Agricultural University, Agricultural Research Station, Kadiri 515591, A.P, India; and SHEIKH M. BASHA, RAMESH KATAM, Plant Biotechnology Laboratory, Center for Viticulture and Small Fruit Research, Florida A&M University, 6505 Mahan Drive, Tallahassee, FL 32317, USA
- (47) Peanut Tolerance and Weed Control with Valor SX and Gramoxone Inteon Tank Mix Combinations. L.V. GILBERT\*, Texas AgriLife Research, Lubbock, TX 79403; P.A. DOTRAY, Texas Tech University, Texas AgriLife Research, and Texas AgriLife Extension Service, Lubbock, TX 79403; and W.J. GRICHAR, Texas AgriLife Research, Beeville, TX 78102
- (48) Valencia Peanut Yield to Digging Dates and Irrigation Rates. N. PUPPALA\*, New Mexico State University Agricultural Science Center, Clovis, NM 88101, and R. NUTI, USDA-ARS Russell Nuti, P.O. Box 509, USDA-ARS, Dawson, GA.

- (49) Can High Quality DNA be Extracted and Utilized from *Arachis* seeds in Long Term Storage with Zero Percent Germination? N.A. BARKLEY\*, M.L. WANG, R.N. PITTMAN, USDA-ARS Plant Genetic Resources Conservation Unit, Griffin, GA 30223.
- (50) Induction of Tetraploidy in Diploid Wild Peanut (*Arachis paraguariensis*). O-O. AINA\*, M. GALLO, K-H. QUESENBERRY, Agronomy Department, University of Florida, Gainesville, FL 32611-0300.
- (51) Next Generation Transcriptome Sequencing of the High Oleic Peanut Cultivar Olin and Identification of SNPs Between Cultivars. R. CHOPRA\*, S. SWAROOP, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409; G. BUROW, Z. XIN, USDA-ARS, Plant Germplasm Development Unit, Lubbock, TX 79415; S.M. GOMEZ, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; A. FARMER, G. MAY, National Center for Genome Resources, Santa Fe, NM 87505; C. SIMPSON, Texas AgriLife Research, Texas A&M System, Stephenville, TX 76401; N. PUPPALA, New Mexico State University, Agricultural Science Center, Clovis, NM 88001; K. CHAMBERLIN, USDA-ARS, Stillwater, OK 74075; T.A. WILKINS, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409; and M.D. BUROW, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409.
- (52) Characterization of Duplicate Genes Involved in Oil Pathways of Polyploid Peanut. Y. BRAND, F. SHILMAN, R. HOVAV\*, Department of Field Crops, Plant Science Institute, ARO, Bet-Dagan, Israel.
- (53) Genetic linkage map and QTL analysis of resistance to TSWV and leaf spots in peanut (*Arachis hypogaea* L.). S. FENG\*, B. ZHOU, T. JIANG, A. CULBREATH, Department of Plant Pathology, the University of Georgia, Tifton, GA; H. QIN, Hubei Academy of Agricultural Sciences, Cash Crop Research Institute, Wuhan; C. Chen, USDA-ARS, National Peanut Research Laboratory, Dawson, GA ; C.C. HOLBROOK, USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA; and B.Z. GUO, USDA-ARS, Crop Protection and Management Research Unit, Tifton, GA.
- (54) Preliminary Studies in Peanuts Organic Fertilization with Vermicompost. S. SANCHEZ-DOMINGUEZ<sup>1</sup> and A. CHONG-ESLAVA, Departamento de Fitotecnia, Universidad Autonoma Chapingo, Chapingo Méx. 56230.
- (55) Effects of Drought Stress and Supplemental Soil Calcium on Pre-Harvest Aflatoxin Contamination of Peanut. S. UPPALA\*, K.L. BOWEN, Department of Entomology and Plant Pathology, Auburn University, AL, 36849.
- (56) Effect of Ribose on Mature/ Immature Raw Peanut Proteins and Their Allergenic Properties. S.-Y. CHUNG\*. Southern Regional Research Center, USDA-ARS, New Orleans, LA 70124.
- (57) Planting Seed Quality among Peanut Market Types, West Texas. SEAN WALLACE\*, CALVIN L. TROSTLE, Extension Agronomy, Texas AgriLife Extension Service, Lubbock, TX 79403-6603.

- (58) Peanut Cultivar Response to S-metolachlor and Paraquat Alone and in Combination. W. JAMES GRICHAR\*, Texas AgriLife Research, 3507 Hwy 59E, Beeville, TX 78102; and PETER A. DOTRAY, Texas AgriLife Research, Texas AgriLife Extension, and Texas Tech Univ., 1102 E FM 1294, Lubbock, TX 79403.
- (59) The Peanut Information Network System: An Online Tool for Peanut Research. Y-C. HUNG\*, B. WATERS Department of Food Science and Technology, The University of Georgia, Griffin, GA 30223 1791.
- (60) An Economic Feasibility Study on Small Scale Processing of Organic Peanuts. N.B. SMITH\*, W. BLACK, J. MCKISSICK, Department of Agricultural and Applied Economics, The University of Georgia, Athens, GA 30602-7509; R.S. TUBBS, Department of Crop and Soil Science, The University of Georgia, Tifton, GA 31793-0748; and J. TESCHER, Georgia Organics, Atlanta, Georgia 30324.
- (61) An Economic Analysis of On-Farm Peanut Drying. K. KIGHTLINGER, N.B. SMITH\* Department of Agricultural and Applied Economics, The University of Georgia, Tifton, GA 31793; C.L. BUTTS, USDA/ARS, National Peanut Research Laboratory, Dawson, GA 39842; and D.S. CARLSON, Cooperative Extension, The University of Georgia, Fitzgerald, GA 31750.
- (62) Generation Means Analysis of Oil Content in Peanut. J.N. WILSON\*, M.R. BARING, Texas AgriLife Research, College Station, TX 77843; M.D. BUROW, Texas AgriLife Research, Lubbock, TX 79403; C.E. SIMPSON, Texas AgriLife Research, Stephenville, TX 76401; W.L. ROONEY, Texas AgriLife Research, College Station, TX 77843; J.L. STARR, Department of Plant Pathology, Texas A&M University, College Station, TX 77843.

**Morning****PLANT PATHOLOGY, NEMATOTOLOGY, AND ENTOMOLOGY**

**Moderator:** *Brent Besler*

**Meeting Room:** *Ballroom A*

- 8:00 (63) Response of New Medium-Maturity Runner-Type Cultivars to Fungicides for Management of Leaf Spot Diseases. A.K. CULBREATH\*, T.B. BRENNEMAN, R.C. KEMERAIT. Dept. of Plant Pathology, Univ. of Georgia, Tifton, GA 31793-0748; B.L. Tillman, Agronomy Dept., Univ. of Florida, Marianna, FL 32446-8091; C.C. HOLBROOK, USDA-ARS, Crop Genetics and Breeding Research Unit, Tifton, GA 31793; and W.D. BRANCH, Dept. of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793-0748.
- 8:15 (64) Peanut Yield and Disease Intensity as Influenced by Cultivar Selection, Seeding Rate, and Planting Date. A.K. HAGAN\*, H.C. CAMPBELL, K.L. BOWEN. Auburn University, AL 36849; and L. WELLS. Wiregrass Research and Extension Center, Headland, AL 36849.

- 8:30 (65)** Comparison of Full-Season, Weather-Based, and Prescription Fungicide Programs Using Peanut Rx for Management of Peanut Diseases in Georgia. A.M. FULMER\*<sup>1</sup>, F.H. SANDERS<sup>1</sup>, R. OLATINWO<sup>2</sup>, M. BOUDREAU<sup>2</sup>, N. SMITH<sup>3</sup>, and R.C. KEMERAIT, JR.<sup>1</sup>.  
<sup>1</sup>Department of Plant Pathology, the University of Georgia, Tifton, GA 31793,  
<sup>2</sup>Department of Biological and Agricultural Engineering, the University of Georgia, Athens, GA 30605, and <sup>3</sup>Department of Agricultural and Applied Economics, the University of Georgia, Tifton, GA 31793.
- 8:45 (66)** Can the Multiple-Disease Resistant Cultivar Bailey be Grown with Reduced Inputs? B.B. SHEW\*, Department of Plant Pathology, T.G. ISLEIB and D.L. JORDAN, Department of Crop Science, NC State University, Raleigh, NC.
- 9:00 (67)** Effect of Post-Inoculation Relative Humidity (RH) on Peanut Infection by *Sclerotinia sclerotiorum*. M.J. BROWN, H.A. MELOUK\*, R.M. HUNGER. Dept. Entomology and Plant Pathology, Oklahoma State University, Stillwater, USDA-ARS, Dept. Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK, U. S. A.
- 9:15 (68)** The Interactive Effects of Fungicide, Application Timing and Spray Nozzle on Peanut Diseases and Yield. J. AUGUSTO\*, and T.B. BRENNEMAN, Department of Plant Pathology, University of Georgia, Tifton, GA 31793-0748.
- 9:30 (69)** Improved Disease Resistance in Virginia-Type Peanuts - Developing Appropriate Management Programs for S. C. Production Conditions. J.W. CHAPIN\* and J.S. THOMAS, School of Agriculture, Forestry, and Environment, Clemson University, Edisto REC, 64 Research Road, Blackville, SC 29817.
- 9:45 Break**
- 10:00 (70)** Evaluation of Fungicide Programs, Calcium Fertility, and Peanut Genotypes for Control of Pythium Pod Rot. J.P. DAMICONE\*, Department of Entomology and Plant Pathology, and C.B. GODSEY, Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK, 74078.
- 10:15 (71)** Comparison of ELISA and Visual Rating of Disease Symptoms of Tomato spotted wilt virus in Peanut. P. DANG\*, C.Y. CHEN, R. NUTI, and M. LAMB, USDA-ARS National Peanut Research Laboratory, Dawson, GA 39842.
- 10:30 (72)** Characterization of Early and Leaf Spot Epidemics in Prescription Fungicide Programs. R.C. KEMERAIT, JR.\*<sup>1</sup>, H. SANDERS<sup>1</sup>, R. OLATINWO<sup>2</sup>, M. BOUDREAU<sup>2</sup>, J.PAZ<sup>2</sup>, and G. HOOGENBOOM<sup>2</sup>. <sup>1</sup>Department of Plant Pathology, the University of Georgia, Tifton, GA 31693 and <sup>2</sup>Department of Biological and Agricultural Engineering, the University of Georgia, Athens, GA 30605.

- 10:45 (73)** Greenhouse Evaluation of section *Arachis* wild species for Sclerotinia blight and CBR resistance. S.P. TALLURY\*, J. HOLLOWELL and T.G. ISLEIB, Department of Crop Science, N.C. State University, Raleigh, NC 27695-7629.
- 11:00 (74)** Early emergence applications of Proline and Propulse for peanut stem rot management. T.B. BRENNEMAN<sup>1</sup>\*, J. AUGUSTO<sup>1</sup>, and K. RUCKER<sup>2</sup>, Department of Plant Pathology<sup>1</sup> University of Georgia, and Bayer CropScience<sup>2</sup>, Tifton, GA 31794.

### Morning

#### BAYER EXCELLENCE IN EXTENSION

**Moderator:** *Scott Russell*

**Meeting Room:** *Ballroom C*

- 8:00 (75)** Evaluation of Day Versus Night and Early Morning Peanut Fungicide Applications to Reduce Disease Incidence and Increase Yield. D.E. MCGRIFFF\*, The University of Georgia Extension, Douglas, GA 31533; M. VON WALDNER, The University of Georgia Extension, Pearson, GA 31642; and T. BRENNEMAN, Department of Plant Pathology, The University of Georgia, Tifton, GA 31793.
- 8:15 (76)** Effect of Digger Timing on Pod Yield and Grade Factors of Virginia and Valencia Peanuts. J.E. WOODWARD\*, Texas AgriLife Extension, Lubbock, TX 79403.
- 8:30 (77)** Issues that Affect Peanut Production in West Texas: A Bailey/Parmer County Perspective. M.R. VANDIVER\*, Texas AgriLife Extension, Muleshoe, TX 79347.
- 8:45 (78)** Development of Peanut Learning Centers In Mississippi. M.S. HOWELL\*, Mississippi State University Extension Service, Poplarville, MS 39470.
- 9:00 (79)** An Overview and Summary of the Calhoun County Fungicide Evaluation Program 1999-2010. P.D. WIGLEY,\* Calhoun County Extension, University of Georgia, Morgan, GA 39866; and R.C. KEMERAIT, Department of Plant Pathology, University of Georgia, Tifton, GA 31793-0748.
- 9:15 (80)** The Role of Cooperative Extension in Peanut Educational Efforts in Irwin County, Georgia. P. EDWARDS\*, Cooperative Extension, University of Georgia, Ocilla, GA 31774
- 9:30 (81)** Assesment of Varying Spray Volumes for Management of Soilborne Disease in Peanuts. P.M. CROSBY\*, Emanuel County Extension, University of Georgia, Swainsboro, Ga. 30401; and R.C. KEMERAIT, Department of Plant Pathology, University of Georgia. Tifton, Ga. 31793-0748
- 9:45 Break**

- 10:00 (82)** The Adoption of Cultural Practices in Pitt County, North Carolina Contributing to the Increase of Peanut Yields from 2000-2009. R. MITCHELL SMITH\*, D.L. JORDAN, B.B. SHEW, and R.L. BRANDENBURG, North Carolina Cooperative Extension Service, Raleigh, NC 27695.
- 10:15 (83)** Randolph County Nighttime Peanut Fungicide Study: Year Three. V.S. HADDOCK\*, Randolph County Extension, The University of Georgia, Cuthbert, GA 39840; T. BRENNEMAN, Department of Plant Pathology, The University of Georgia, Tifton, GA 31793; and J.L. RIGSBY, Randolph County Peanut Producer, Cuthbert, GA 39840.
- 10:30 (84)** Impact of In-furrow Prothioconazole with Provost or Artisan/Initiate Fungicides Combined with Day/Night Applications on Severity of Soilborne Diseases of Peanut. W.G. TYSON\*, University of Georgia Cooperative Extension, Effingham County, Springfield, GA 31329 and R.C. KEMERAIT, University of Georgia, Department of Plant Pathology, 4604 Research Way, Tifton, GA 31794.
- 10:45 (85)** Electronic Ag News for Farmers, Agribusiness and Community Leaders. W.J. ETHREDGE, JR.\*, Seminole County Extension Agent, The University of Georgia, Donalsonville, GA 39845

## Morning

### BREEDING, BIOTECHNOLOGY, AND GENETICS

**Moderator:** *Mike Baring*

**Meeting Room:** *Minuet Room*

- 8:00 (86)** Gene Expression Profiling and Identification of Resistance Genes to *Aspergillus flavus* Infection in Peanut Through EST and Microarray Strategies. B. GUO\*, USDA-ARS, Crop Protection and Management Research Unit, Tifton, GA; N. FEDOROVA, C. WAN, W. WANG, W. NIERMAN, The J Craig Venter Institute, Rockville, MD; X. CHEN, Guangdong Academy of Agricultural Sciences, Crops Research Institute, Guangzhou, China; D. BHATNAGER, J. YU, USDA-ARS, Southern Regional Research Center, New Orleans, LA.
- 8:15 (87)** Phenotypic Variation in Total Sound Mature Kernel Percentage within the University of Florida Breeding Program. B.L. TILLMAN\* and G. PERSON, North Florida REC, Agronomy Department, University of Florida, Marianna, FL 32446.
- 8:30 (88)** Variability in Seed Dormancy within the U.S. Peanut Mini-core Collection. C.Y. CHEN\*, P. DANG, and M. LAMB, USDA-ARS National Peanut Research Laboratory, Dawson, GA 39842; M.L. WANG, D.L. PINNOW, N.A. BARKLEY, R.N. PITTMAN, and G.A. PEDERSON, USDA-ARS Plant Genetic Resources Conservation Unit, Griffin, GA 30223.

- 8:45 (89)** “Tingoora” – A High Oleic Ultra Early Maturing Variety Bred for Drought and Aflatoxin Avoidance. G.C. WRIGHT\*, G.A. BAKER, Peanut Company of Australia, Kingaroy, Queensland, Australia, 4610; and D. FLEISCHFRESSER, A. CRUICKSHANK, AgriSciences Queensland, Department of Employment, Economic Development and Innovation, Kingaroy, Queensland, Australia, 4610.
- 9:00 (90)** Germination and Emergence Effects on Peanut Seed Planted Directly from Cold Storage. J.M. CASON\*, B.D. BENNETT, C.E. SIMPSON. Texas AgriLife Research, Texas A&M System, Stephenville, TX 76401.
- 9:15 (91)** Development of High-Yielding, High-Oleic, Early-Maturing Spanish Peanuts. M.D. BUROW\* and J.L. AYERS, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, and Texas Tech University, Department of Plant and Soil Science, Lubbock, TX, 79409; A. MUITIA, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409; A.M. SCHUBERT, Y. LÓPEZ, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; C.E. SIMPSON, Texas AgriLife Research, Texas A&M System, Stephenville, TX 79403; N. PUPPALA, Agricultural Sciences Center, New Mexico State University, Clovis, NM 88001; and M.R. BARING, Texas AgriLife Research, Texas A&M System, College Station, TX 77843.
- 9:30 (92)** Evaluation of Interspecific Lines and Breeding Populations of *Arachis hypogaea* L. for Yield and Resistance to Leaf spot Diseases in Ghana and Texas. N.N. DENWAR\*, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, and Savanna Agricultural Research Institute, Tamale, Ghana; C.E. SIMPSON, Texas AgriLife Research, Texas A&M System, Stephenville, TX 76401; J.L. STARR, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843; T.A. WHEELER, J.L. AYERS, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; M.R. BARING, Texas AgriLife Research, Texas A&M University, College Station, TX 77843; S.K. NUTSUGAH, Savanna Agricultural Research Institute, Tamale, Ghana; P. SANKARA, Département de Phytopathologie, Université de Ouagadougou, Ouagadougou, Burkina Faso; and M.D. BUROW, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, and Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409.
- 9:45 Break**
- 10:00 (93)** Genetic Sources for Tolerance of Pod Wart Disease and Other Pod Quality Limiting Factors in Virginia-Type Peanuts. Y. SHEM-TOV, I. CHEDVAT, Y. BRAND, I. GINZBERG, R. HOVAV\*, Department of Field Crops, Plant Science Institute, ARO, Bet-Dagan, Israel.
- 10:15 (94)** Integrated SSR/RFLP map of tetraploid peanut. S.M. GOMEZ\*, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; C.E. SIMPSON, Texas AgriLife Research, Texas A&M University, Stephenville, TX 76401; P.B. VIKAS, H. PATEL, Masters in Biotechnology program, Center for Biotechnology and Genomics, Texas Tech University, Lubbock, TX 79409; A.H. PATERSON, Plant Genome Mapping Laboratory, University of Georgia, Athens GA 30602; and M.D. BUROW, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403; Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409.

- 10:30 (95) Segregation for Branching Pattern in Two Crosses Between Var. *Hypoqaea* and Var. *Vulgaris* Parents. L.E. HASSELL, F. VILLEGAS CHIRINOS, S.R. MILLA-LEWIS, S.C. COPELAND, and T.G. ISLEIB\*, Dept. of Crop Science, N.C. State Univ., Raleigh, NC 27695-7629.

## Afternoon

## WILD SPECIES SYMPOSIUM

**Moderator:** Charles Simpson

**Meeting Room:** Ballroom AB

- 1:30 (96) Utilizing the *Arachis* Wild Species Collection for Improving the Cultivated Peanut: Introduction and History. C.E. SIMPSON\*, M.D. BUROW, M.R. BARING, and J.L. STARR. Texas AgriLife Research, Stephenville, TX 76401; Texas AgriLife Research and Texas Tech Univ. Lubbock, TX 77403; Texas AgriLife Research and Soil and Crop Sci. Dept. and Plant Pathology and Microbiology Dept. Texas A&M Univ. College Station, TX 77843.
- 1:45 (97) The *Arachis* Species Program North Carolina. H.T. STALKER\* and S.P. TALLURY, Department of Crop Science, North Carolina State University, Raleigh, NC 27695.
- 2:15 (98) Evaluation and Use of *Arachis* species for Peanut Improvement. S.P. TALLURY\*, J. HOLLOWELL, S.C. COPELAND, T.G. ISLEIB and H.T. STALKER, Dept. of Crop Science, N.C. State University, Raleigh, NC 27695-7629.
- 2:30 (99) Marker-Assisted Breeding for Wild Species-Derived Traits in *Arachis*. Y. CHU, C. WU, P. OZIAS-AKINS\*, Department of Horticulture, The University of Georgia Tifton Campus, Tifton, GA 31793-0748; and C.C. HOLBROOK, USDA-ARS, Coastal Plain Experiment Station, Tifton, GA 31793.
- 2:45 (100) Nematode Resistance in *Arachis* Illustrates the Value of Wild Species. C.C. HOLBROOK\*, USDA-ARS, Coastal Plain Experiment Station, Tifton, GA 31793; Y. CHU, and P. OZIAS-AKINS, Department of Horticulture, The University of Georgia, Tifton, GA 31793.
- 3:00 (101) Introgression of Early Leafspot Resistance from Wild Species into the Cultivated Peanut *Arachis hypoqaea*. M.R. BARING\*, Soil and Crop Sciences Department, Texas AgriLife Research, College Station, TX 77843-2474; C.E. SIMPSON, Soil and Crop Sciences Department, Texas AgriLife REC, Stephenville, TX 76401; M.D. BUROW, Soil and Crop Sciences Department, Texas AgriLife REC, Lubbock, TX 79403.

- 3:15 (102)** Identification of Domestication-Associated QTLs Introgressed into Cultivated Peanut, (*Arachis hypogaea* L.) M.D. Burow, Texas AgriLife Research, Texas A&M System, Lubbock, TX 79403, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, and Plant Genome Mapping Laboratory, University of Georgia, Athens, GA 30602; C.E. SIMPSON, Texas AgriLife Research, Texas A&M System, Stephenville, TX 76401; J.L. STARR, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843; C.-H. PARK, National Institute of Crop Science, Seodun-Dong, Suwon Republic of Korea; and A.H. PATERSON, Plant Genome Mapping Laboratory, University of Georgia, Athens, GA 30602.
- 3:30 (103)** Utilization of Wild *Arachis* species for Peanut Improvement. H.D. UPADHYAYA\*, S. SHARMA, N. MALLIKARJUNA, and S. SINGH, Grain Legumes Program, International Crops Research Institute for the Semi Arid Tropics (ICRISAT), Patancheru 502 324, Andhra Pradesh, India.

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