

# AMERICAN PHYTOPATHOLOGICAL SOCIETY SOUTHERN DIVISION NEWSLETTER

# **JANUARY 2014**

## DATES TO REMEMBER

## <u>January 17, 2014</u>

C3 Last day to reserve a room for the reduced\$149/night rate at the official meeting hotel.

## February 1, 2014

C3 Early professionals meeting for graduate students and post-docs, from 6:00 to 7:00 pm in Majestic Room 1, Sheraton Dallas Hotel, Dallas, TX; social to follow.

## February 2-3, 2014

C3 91<sup>st</sup> Annual SDAPS Meeting, Sheraton Dallas Hotel, Dallas, TX.

## 91<sup>st</sup> SDAPS MEETING HOTEL

The official meeting hotel is:

Sheraton Dallas Hotel 400 Olive Street, Dallas, TX 75201 Phone: 1-888-627-8191

## **Book on-line at:**

https://www.starwoodmeeting.com/StarGroupsWeb/bookin g/reservation?id=1310098244&key=AA8A

## Group Room Rates:

Single and Double Bed Rooms - \$149/night Triple or Quad Bed Rooms - \$169 / night

(if reserved before Jan. 17th by 5:00 PM EST, otherwise prevailing rates will apply).

Call the number above and tell them that you are with the **Southern Association of Agricultural Scientists**.

Check in is 3:00 pm - Check out is 12:00 pm.

Reservations must be made by Jan. 17th, 2014.

Cancellations will be accepted up to 7 days prior to arrival date. An early check-out fee of \$50 may apply, if you do not give the hotel prior notice of an earlier departure prior to or at the time of check-in.

<u>Complimentary Services:</u> Free self-parking in parking garage, complimentary local and 800 calls, complimentary access to fitness center and health club.

<u>Airport Transportation:</u> The hotel provides limited airport shuttle service.

<u>Parking:</u> Free self-parking is available for SAAS participants; \$20/day for valet parking.

For more information about the SDAPS meetings, see: <u>http://www.apsnet.org/members/divisions/south/meetings/</u><u>Pages/default.aspx</u>. See <u>http://www.visitdallas.com/</u> for more information about Dallas and its attractions.

# MEETING REGISTRATION

The registration fee will be \$150 for regular members and post-docs and \$50 for student members. The registration fee covers coffee breaks, the meeting room and A/V equipment, and partial costs for the graduate student luncheon and Southern Division banquet. Registration can be paid online in advance (preferable) or at the meeting.

Please register for the meeting online or via fax, mail, or phone as follows:

**Online:** Please go to the Southern Division website at <a href="http://www.apsnet.org/members/divisions/south/meetings/">http://www.apsnet.org/members/divisions/south/meetings/</a> <a href="http://www.apsnet.org/members/divisions/south/meetings/">Pages/2014APSSouthernDivisionMeeting.apx</a>

**By Phone:** Call APS Headquarters at 1.800.481.2698 (toll free in U.S.) or 1.651.454.7250 (Canada, Int'l) to register by credit card. A receipt will be e-mailed to you!

**By Fax/Mail:** Please visit the Southern Division website: <u>http://www.apsnet.org/members/divisions/south/meetings/</u> <u>Documents/apssdreg2014form.pdf</u> to print a Meeting Registration Form that can be faxed or mailed to APS Headquarters. If paying by check, please make it payable to: "**APS/SD**".

Do not send your credit card information via e-mail since it is not secure. Please fax, phone, or mail your credit card information. At the meeting, you can pay by credit card, check (preferred), or cash (not preferred).

# 91st SDAPS MEETING PROGRAM

**Registration will be at the** *Grand Hall Preconvene -Conference Center.* All presentations, including the poster session, will be held in the Austin Ballroom 3 on the 2<sup>nd</sup> floor of the Sheraton Hotel (unless noted otherwise).

## Saturday, February 1, 2014

6:00 – 7:00 pm Early professionals meeting - Mary Helen Ferguson, SDAPS Graduate student representative

Majestic Room 1- Sheraton Hotel- Center Tower, 37th Floor

All students and post-docs are encouraged to attend to (a) discuss any topics that this group wishes to bring before the SDAPS executive board or at the SDAPS business meeting on Monday afternoon and (b) choose someone to be a liaison to the SDAPS executive board for the 2014-15 year. Afterwards, those who wish to will travel to a local restaurant for dinner (Dutch treat) and socializing. Remember to plan your travel so that you arrive in time to join us!

## Sunday, February 2, 2014

7:00 – 8:00 am **Registration** – *Grand Hall Preconvene* - *Conference Center* 

## Symposium: Insight to Achieving Tenure: Things They Didn't Tell You in Graduate School

- Jason Woodward, SDAPS President, presiding Austin Ballroom  $3 - 2^{nd}$  Floor Sheraton Hotel
- 8:00 8:20 What's in a PDMR: Research efforts, efficacy, and educational information.
  K. Seebold, University of Kentucky, Lexington, KY.
- 8:20 8:40 Creating an applied research program with a majority extension appointment.
  H. Young-Kelly, University of Tennessee, Jackson, TN.
- 8:40 9:00 International research collaborations: Abounding opportunities for faculty and students. **C. Garzon**, Oklahoma State University, Stillwater, OK.
- 9:00 9:20 Research collaborations: Fifteen years of collaborative research evaluating cotton seed treatments. **C. Rothrock**, University of Arkansas, Fayetteville, AR.

- 9:20 9:40 Teaching opportunities in non-Land Grant institutions: Productivity of undergraduate biology students. **B. Bextine**, University of Texas at Tyler, Tyler, TX.
- 9:40 10:00 Discussion
- 10:00 10:15 Break

## **STUDENT PRESENTATIONS (Session 1)**

- Tom Allen, SDAPS, President-elect presiding - Austin Ballroom  $3 - 2^{nd}$  Floor Sheraton Hotel
- 10:15 10:30 Alternative hosts of spring dead spotcausing fungi. **F. Flores**, S. Marek, J. Anderson, T. Mitchell, and N. Walker, Oklahoma State University, Stillwater, OK.
- 10:30 10:45 *Meloidogyne partityla*, a new root-knot species in Arkansas. **C. Khanal**, and R. Robbins, University of Arkansas, Fayetteville, AR.
- 10:45 11:00 Effect of crop rotation, location and isolation temperature on *Pythium* spp. population composition in Arkansas. K. Urrea (1), J. Rupe (1), C. Rothrock (1), S. Goeke (1), M. Chilvers (2), and A. Rojas (3), (1) University of Arkansas, Fayetteville, AR; (2) Michigan State University, East Lansing, MI; and (3) Benguet State University, La Trinidad, Philippines.
- 11:00 11:15 Early season use patterns of prothioconazole for peanut disease management. **Y. Tsai**, and T. Brenneman, University of Georgia, Tifton, GA.
- 11:15 11:30 Variation in virulence among the Sclerotium rolfsii isolates in Florida peanut. **K. Khatri**, University of Florida, Gainseville, FL.
- 11:30 11:45 Nematodes associated with edamame, *Glycine max* L. (Merr.) in Arkansas. J. Fultz, University of Arkansas, Fayetteville, AR.
- 11:45 12:00 Evaluation of methods for controlling nematodes in tomato-cucumber double cropping systems. K. Morris, and D. Langston, University of Georgia, Tifton, GA.
- 12:00 1:00 **Lunch** (on your own)

### **STUDENT PRESENTATIONS (Session 2)**

- Tom Allen, SDAPS, President-elect presiding	
- Austin Ballroom $3 - 2^{nd}$ Floor Sheraton H	Iotel

1:00 – 1:15 Response of terpene biosynthetic enzyme transcript accumulation of selected *Medicago truncatula* accessions to infestation with pea aphid, root-lesion nematodes, or *Phoma medicaginis*. S. Roberson, L. Nelson, and K. Korth, University of Arkansas, Fayetteville, AR.

1:15 – 1:30 Detection and quantification of *Cercospora janseana* by realtime PCR technique. **K. Kaur**, A. Chanda, and C. Hollier. Louisiana State University Agricultural Center, Baton Rouge, LA.

- 1:30 1:45 Frogeye leaf spot and potential resistance to azoxystrobin in Mississippi soybean production fields. J. Standish, M. Tomaso-Peterson, T. Allen, W. Moore, and S. Sabanadzovic, Mississippi State University, Starkville, MS.
- 1:45 2:00 Effect of crop rotation and of soil and plant tissue micronutrients on sour skin incidence in Vidalia onion. **A. Selph**, B. Dutta, D. Burrell, and R. Gitaitis, University of Georgia, Tifton, GA.
- 2:00 2:15 Effect of soil matric potential on infection of sorghum seedlings by *Peronosclerospora sorghi*, cause of sorghum downy mildew. D. Laughlin, and T. Isakeit, Texas A&M University, College Station, TX.
- 2:15 2:30 Effects of soil salinity on growth, reproduction, and virulence of *Pythium* spp. on soybean. **T. Stetina**, C. Rothrock, and J. Rupe, University of Arkansas, Fayetteville, AR.
- 2:30 2:45 Attempts in extracting RNA from eriophyid mites in search for Rose Rosette Virus. **A. Brake**, M. Giesbrecht, and K. Ong, Texas A&M University, College Station, TX.
- 2:45 3:00 Break

**CONTRIBUTED PAPERS (Session 1)** 

# Nicole Ward, SDAPS, Vice-President presiding Austin Ballroom 3 – 2<sup>nd</sup> Floor Sheraton Hotel

3:00 - 3:15Effect of water stress on bacterial panicle blight of rice. Y. Wamishe, C. Kelsey, S. Belmar, T. Gebremariam, and D. McCarty, University of Arkansas, Stuttgart, AR. 3:15 - 3:30Development of an assay for rapid detection and monitoring of Verticillium dahliae in woody plants by real-time polymerase chain reaction (PCR). B. Aljawasim, University of Kentucky, Lexington, KY. 3:30 - 3:45Fungicide timing for management of sugar beet diseases in Georgia. T. Brenneman, Y. Tsai, T. Webster, B. Scully, R. Davis, and T. Grey, University of Georgia, Tifton, GA. 3:45 - 4:00Challenges of standardizing molecular detection/diagnostic tests for plant disease diagnostic clinics. K. Ong (1), P. F. Harmon (2), and C. L. Harmon (2), (1) Texas A&M University, College Station, TX; and (2) University of Florida, Gainesville, FL.

### 4:00 – 4:15 Break

## WORKSHOP

- 4:00 4:15 SAAS Business Meeting Dallas Ballroom  $A1 - 2^{nd}$  Floor Sheraton Hotel
- 4:15 5:30 Speak up: Simple Rules for Effective Presentations

*Concurrent Session Dallas Ballroom A2* Students and post-docs will learn the critical components of effective communication including developing message delivery tips, professionalism, relating to and engaging the audience, slide design, and creating PowerPoint presentations.

5:30 – 10:30 SAAS Super Bowl Party – Eddie Deen's Ranch - Continuous Bus Shuttle Starting at 5 pm on side of Draft Lounge

## Monday, February 3, 2014

7:00 – 8:00 am **Registration** – *Grand Hall Preconvene* - *Conference Center* 

## **CONTRIBUTED PAPERS (Session 2)**

- Tom Allen, SDAPS, President-elect presiding - Austin Ballroom  $3 - 2^{nd}$  Floor Sheraton Hotel

- 8:00 8:15 Interactions of seed-borne bacterial pathogens with host and non-host plants in relation to seed infestation and seedling transmission. B. Dutta, R. Gitaitis, D. Langston, and S. Smith, University of Georgia, Tifton, GA.
- 8:15 8:30 Goss's wilt in Louisiana: incidence, severity and loss. C. A. Hollier, R. Singh, and R. L. Frazier, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 8:30 8:45 Copper in a copper tolerant environment: Questioning the value of copper for managing bacterial leaf spot and speck in Florida tomato production. G. E. Vallad, H. Adkison, R. Willis, S. Newman, S. Timilsina, and J. B. Jones, University of Florida, Gainesville, FL.
- 8:45 9:00 Sensitivity of *Meloidogyne incognita* and *Rotylenchulus reniformis* to fluopyram. T. Faske, and K. Hurd, University of Arkansas, Lonoke, AR.
- 9:00 9:15 A novel plasma seed treatment for a rice seedborne fungal pathogen. **Y. Jo**, D. Staack, J. Roh, and D. Shin, Texas A&M University, College Station, TX.
- 9:15 9:30 Suppression of Fusarium wilt of watermelon by selected fungicides and a plant defense activator. **H. Sanders**, E. Beasley, J. Lanier, and D. Langston, University of Georgia, Tifton, GA.
- 9:30 9:45 Prevalence and control of pathogenicity groups of *Leptosphaeria* spp. from winter canola in Oklahoma. **C. Diaz** and J. Damicone, Oklahoma State, Stillwater, OK.
- 9:45 10:00 A clinical perspective on public plant health trends in Texas. **S. McBride**, D. Appel, and K. Ong, Texas A&M University, College Station, TX.
- 10:00 10:15 Break

### **STUDENT PRESENTATIONS (Session 3)**

- Ray Schneider, SDAPS Past-President, presiding
   Austin Ballroom 3 2<sup>nd</sup> Floor Sheraton Hotel
- 10:15 10:30 An evolutionary assessment of ectotrophic root-infecting fungi isolated from ultradwarf bermudagrass roots. P. Vines, M. Tomaso-Peterson, T. Allen, F. Meyer, and F. Hoffman, Mississippi State University, Starkville, MS.
- 10:30 10:45 Influence of iron on soybean leaf infection by *Cercospora kikuchii* and symptom expression. E. Chagas Silva, A. Chanda, R. Schneider, T. Garcia Aroca, C. Robertson, E. Tubana, and B. Ward, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 10:45 11:00 Genetic analyses of single rust spores facilitated by whole genome amplification.
   G. Orquera, C. Garzon, and S. Marek, Oklahoma State University, Stillwater, OK.
- 11:00 11:15 Effect of cultivar, fungicide, and delayed harvest on soybean seed quality. K.
   Cochran, J. Rupe, R. Holland, and R. Steger, University of Arkansas, Fayetteville, AR.
- 11:15 11:30 Xylella fastidiosa infection is correlated with lower yield in a rabbiteye blueberry orchard in Louisiana. M. H. Ferguson, C. Clark, and B. Smith, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 11:30 11:45 Characterization of antibacterial activity of *Burkholderia contaminans* strain MS14. P. Deng, K. Showmaker, S. Baird, and S. Lu, Mississippi State University, Starkville, MS.
- 11:45 12:00 Effects of soil, temperature, and seed quality on soybean seedling disease. K. Weis, J. Rupe, K. Urrea, A. Steger, C. Rothrock, and S. Goeke, University of Arkansas, Fayetteville, AR.
- 12:00 1:00 **Lunch -** Austin Ballroom  $1 2^{nd}$  Floor Sheraton Hotel

## **STUDENT PRESENTATIONS (Session 4)**

- Gary Vallad, SDAPS Treasurer, presiding
   Austin Ballroom 3 2<sup>nd</sup> Floor Sheraton Hotel
- 1:00 1:15 Cryptic diversity within *Cercospora kikuchii* on soybean in Louisiana. **S. Albu**, P. Price, V. Doyle, and R. Schneider, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 1:15 1:30 Effects of temperature and time of infection on wheat streak severity. J. A. Price, J. Gray, and C. M. Rush, Texas A&M University, Amarillo, TX.
- 1:30 1:45 Evolutionary relationship among *Pythium irregulare sensu lato* species complex. P. Garrido (1), F. Proano (1), E. Diaz (1), M. Daughtrey (2), A. Levesque (3), G. Moorman (4), M. Herrero (5), S. Klemsdal (5), J. Weiland (6), and C. Garzon (1), (1) Oklahoma State University, Stillwater, OK; (2) Cornell University, Ithaca, NY; (3) Agriculture and Agri-Food Canada, Ottawa, Ontario; (4) Pennsylvania State University, State College, PA; (5) Bioforsk, As, Norway; (6) USDA-ARS, Corvallis, OR.
- 1:45 2:00 Using three plastic mulch colors to investigate the influence of soil temperature and moisture on southern blight epidemics of plasticulture tomatoes. **M. Roberts**, and D. Langston, University of Georgia, Tifton, GA.
- 2:00 2:15 Effects of irrigation systems and bed and row middle fumigation on the incidence and severity of diseases caused by *Fusarium oxysporum* in tomato. T. Jacoby, G. E. Vallad, and B. Santos, University of Florida, Gainesville, FL.

2:15 – 2:30 Break

- 2:30 2:45 Detection and quantification of aflatoxigenic fungi in drought-stressed peanut seeds through real-time PCR. J. M. Luis, P. Ozias-Akins, Y. Chu, A. Glenn, C. Holbrook, and R. Kemerait, University of Georgia, Tifton, GA.
- 2:45 3:00 Genomic analysis of *Xanthomonas perforans* strains from tomato production areas in Florida reveals two distinct groups. S. Timilsina (1), H. Adkison (1), N. Potnis (1), G. Minsavage (1), E. Goss (1), F. White (2), J. Jones (1), and G. E.

Vallad (1), (1) University of Florida, Gainesville, FL; (2) Kansas State University, Manhattan, KS.

- 3:00 3:15 Investigation of the factors that influence host preference of the cucurbit pathogen, *Acidovorax citrulli*. **M. Zivanovic**, R. Walcott, and T. Denny, University of Georgia, Athens, GA.
- 3:15 3:30 Exploring new diseases at the Texas plant disease diagnostic lab. **B. Commer**, S. McBride, and K. Ong, Texas A&M University, College Station, TX.

### **CONTRIBUTED PAPERS (Session 3)**

- Jason Woodward, SDAPS President, presiding
   Austin Ballroom 3 2<sup>nd</sup> Floor Sheraton Hotel
- 3:30 3:45 Crop protection in algal cultures grown for oil production. **P. Lee**, Sapphire Energy, San Diego, CA.

## 3:45 – 4:00 Break

- 4:00 4:15 From research stations to commercial fields: Survey, detection and identification of sweetpotato viruses in North Carolina.
  C. V. Almeyda, L. C. Neal (1), T. Abernethy (1), J. A. Abad, and Z. Pesinc-VanEsbroeck (1), (1) North Carolina State University, Raleigh, NC; (2) USDA, APHIS PPQ PGQP, Beltsville, MD.
- 4:15 4:30 Citrus canker: another hurricane for Louisiana's citrus industry. **R. Singh**, T. Hardy, and W. Spitzer, Louisiana State University Agricultural Center, Baton Rouge, LA.
- 4:30 4:45 Species and strain differentiation of *Aspergillus* section *Flavi* through morphological characterization and repetitive-sequence-based PCR DNA fingerprinting. J. M. Luis (1), A. Glenn (2), C. Bacon (2), and R. Kemerait (1), (1) University of Georgia, Tifton, GA; (2) USDA-ARS, Toxicology and Mycotoxin Research Unit, Athens, GA.
- 4:45 5:00 Survey and detection of *Phytophthora ramorum*, the sudden oak death pathogen, in Texas. T. Kurdyla, J. Pham, S. McBride, and **D. Appel**, Texas A&M University, College Station, TX.
- 5:00 5:15 Distribution of *Soybean vein necrosis virus* (SVNV) in Oklahoma. **A. Ali**, University of Tulsa, Tulsa, OK.

5:15 - 5:30	Triggering toxin production: the cellobiose signaling pathway leading to virulence of <i>Streptomyces scabies</i> . <b>I. Francis</b> , K. Min, and R. Loria, University of Florida, Gainesville, FL.
5:30 - 5:45	Fungicide sensitivity of <i>Geotrichum</i> <i>candidum</i> isolates associated with causing tomato sour rot. K. Fiedler, and <b>S.</b> <b>Rideout</b> , Virginia Tech University – Eastern Shore AREC, Painter, VA.
5:45 - 6:45	<b>Business meeting -</b> Austin Ballroom 3 $-2^{nd}$ Floor Sheraton Hotel
7:00 - 7:30	<b>Poster viewing and reception -</b> Austin Ballroom $3 - 2^{nd}$ Floor Sheraton Hotel
7:30 – 9:00	<b>Banquet -</b> Austin Ballroom $1 - 2^{nd}$ Floor Sheraton Hotel

#### **CONTRIBUTED POSTERS**

Field performance of cotton varieties in response to rootknot nematode (*Meloidogyne incognita*). **N. M. Foster**, and J. Woodward, Texas Tech University, Lubbock, TX.

Site specific application of fumigants for control of nematodes in Louisiana and Texas. **R. Haygood** (1), D. Burns (2), E. Burris (2), J. Woodward (3), N. Foster (4), and C. O'Hara (1), (1) Dow AgroSciences, Indianapolis, IN; Louisiana State University Agricultural Center, Winnsboro, LA; Texas A&M University, Lubbock, TX; (4) Texas Tech University, Lubbock, TX.

Effect of temperature on *in vitro* growth of genetically distinct isolates of *Fusarium oxysporum* f. sp. *vasinfectum*. **J. Woodward**, Texas A&M University, Lubbock, TX.

The complete genome sequence of *Canna yellow streak virus* isolated from Oklahoma grown canna. **R. Chauhan**, P. Rajakaruna, H. Hamon, M. Webb, and J. Verchot.

Evaluating the influence of fungicides with different mode of action on *Cercospora sojina* populations. **A. Cochran**, H. Kelly, and J. Jordan, University of Tennessee, Jackson, TN.

The initial development of a weather based risk model for early season fungicide sprays of *Sclerotium rolfsii* in peanuts. **N. Dufault**, and R. Barocco, University of Florida, Gainesville, FL.

Screening demethylation inhibitor (DMI) fungicides for assessing efficacy against citrus black spot (CBS). **N. Thapa**, and M. Dewdney, University of Florida, Gainesville, FL. Evaluation of commercial cultivars of soybean in response to *Cercospora sojina* under a regime of foliar applied fungicide. **W. Jordan**, and H. Kelly, University of Tennessee, Jackson, TN.

Screening and characterization of hormetic response of *Sclerotinia homeocarpa* to thiophanate-methyl. **S. Pradhan Shrestha**, C. Garzon, N. Walker, and L. Miller, Oklahoma State University, Stillwater, OK.

Characterization of virulence phenotypes of isolates of *Colletotrichum sublineolum* from Arkansas on selected grain sorghum hybrids. **D. TeBeest**, and A. Jecmen, University of Arkansas, Fayetteville, AR.

Discovery of a white false smut infecting rice in Arkansas. **A. Jecmen**, and D. TeBeest, University of Arkansas, Fayetteville, AR.

# SOUTHERN DIV. OFFICERS

## President

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## **Graduate Student Representative**

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## SDAPS DUES

SDAPS dues are \$20 for members and associate members (excluding retired plant pathologists who are considered honorary members) and \$5 for student members. Dues may be sent to the SDAPS Secretary/Treasurer or paid with your APS dues. Your dues help offset costs associated with divisional meetings and student participation.