



Caribbean Division of The American Phytopathological Society

52nd CDAPS MEETING PROGRAM

SUNDAY, APRIL 15, 2012

5:00 p.m.-7:00 p.m. Registration (Blue Marlin Ballroom (Exterior))

7:00 p.m.-9:00 p.m. Social (Blue Marlin Ballroom)

MONDAY, APRIL 16, 2012

7:00 a.m.-6:00 p.m. Sand Dunes AB Room (Registration, Meeting)

7:00 a.m.-9:00 a.m. Registration

8:00 a.m.-8:30 a.m.- Welcome, Ronald French, CDAPS President. Introduction of APS-CD Officers and Guests.

8:30 a.m.-11:50 a.m. SYMPOSIUM ON CANDIDATUS LIBERIBACTER SPP. OF SOLANACEOUS AND CITRUS CROPS (Organized by Texas AgriLife Extension Service Plant Pathology)
Moderated by: David Appel, Greta Schuster, Ronald French, and Raul Villanueva.

8:30 a.m.-8:50 a.m. Overview of Zebra Chip in the US: Focus on Disease Epidemiology. **C. M. Rush**, F. Workneh, A. Rashed, and L. Paetzold. Texas AgriLife Research, Amarillo, Texas, U.S.A.

8:50 a.m.-9:10 a.m. Surveys for Citrus Huanglongbing in Texas led to Early Detection. **J.V da Graça**, M. Setamou, M. Skaria, and M. Kunta. Texas A&M University-Kingsville, TX, U.S.A.

9:10 a.m.-9:30 a.m. Development and applications of primers and probe for genus specific detection of '*Candidatus Liberibacter* species' by real-time PCR. G. Ananthkrishnan, **H. Hu**, and R. H. Brlansky. University of Florida, Citrus Research and Education Center, Lake Alfred, FL, U.S.A.

9:30 a.m.-9:50 a.m. '*Candidatus Liberibacter solanacearum*' translocation and quantification in potato and tomato. **E. A. Pierson** (2), J. G. Levy (2), A. Ravindran (3), C. Tamborindeguy (1), and D. C. Gross (3). (1) Department of Entomology, Texas A&M University, College Station, TX, U.S.A.; (2) Department of Horticultural Sciences, Texas A&M University, College Station, TX, U.S.A.; (3) Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX, U.S.A.

9:50 a.m.-10:20 a.m. Morning Break (coffee and snacks)- (view undergraduate student posters)



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10:20 a.m.-10:40 a.m. Regional monitoring of, and potential for insecticide resistance by, the potato psyllid. **D. Henne**. Texas AgriLife Research, Weslaco, TX, U.S.A.

10:40 a.m.-11:00 a.m. Proactive areawide management of the Asian citrus psyllid for HLB risk mitigation in Texas. **M. Setamou**, J.V da Graça, D. Bartells, and M. Ciomperlik. Texas A&M University-Kingsville, TX, U.S.A.

11:00 a.m.-11:20 a.m. Psyllids and Pathogen Transmission: Using New Molecular Techniques to Investigate Vector/Pathogen Interactions. **B. Bextine**. University of Texas at Tyler, Tyler, TX, U.S.A.

11:20 a.m.-11:40 a.m. Genetic diversity of ‘*Candidatus Liberibacter asiaticus*’ from Southeast Asia and South America. **E. L. Schuenzel** (2), S. Donnua (1), and N. Thaveechai (1). (1) Kasetsart University, Thailand; (2) University of Texas Pan American, Edinburg, TX, U.S.A.

11:40 a.m.-12:00 p.m. Quarantine implications of Zebra Chip and other potato diseases. **J.A. Abad**. USDA, APHIS PPQ PGQP, Beltsville, MD, U.S.A.

12:00 p.m.-1:15 p.m. Lunch (on your own)

1:15 p.m.-5:00 p.m. GRADUATE STUDENT PRESENTATIONS
(Moderated by: Paul Vincelli, Ronald French)

1:15 p.m.-1:30 p.m. Functional characterization of SDA1, a putative transcriptional activator of the polyol pathway, in *Fusarium verticillioides*. **J. Campbell** (1), M. Malapi-Wight (2), and W. Shim (2). (1) Bioenvironmental Sciences, Texas A&M University, College Station, TX, U.S.A.; (2) Department of Plant Pathology & Microbiology, Texas A&M University, College Station, TX, U.S.A.

1:30 p.m.-1:45 p.m. Prevalent citrus diseases in Puerto Rico. **M. R. Marroquín-Guzman** (1), C. Estevez De Jensen (1), and E. Martínez (2). (1) Department of Crops and Agroenvironmental Sciences, University of Puerto Rico, Mayaguez Campus, Mayaguez, Puerto Rico; (2) Division of Plant Disease and Pest Control, Puerto Rico Department of Agriculture, San Juan, Puerto Rico.

1:45 p.m.-2:00 p.m. In vitro screening of plant materials as biofumigants for the management of *Rhizoctonia solani* in rice. **M. Handiseni** (1), X. Zhou (1), and Y. Jo (2). (1) AgriLife Research, Texas A&M University System, Beaumont, TX, U.S.A.; (2) Dept. of Plant Pathology and



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Microbiology, Texas A&M University,
College Station, TX, U.S.A.

2:00 p.m.-2:15 p.m. Selective citrus relatives as alternative hosts of citrus huanglongbing in Florida. **H. Hu** and R. H. Brlansky. University of Florida, Citrus Research and Education Center, Lake Alfred, FL, U.S.A.

2:15 p.m.-2:30 p.m. The functional role of gliotoxin in the biocontrol agent *Trichoderma virens*. **D. A. Laughlin** (1), W. Vargas (2), F. K. Crutcher (1), C. M. Kenerley (1). (1) Texas A&M University, College Station, TX, U.S.A.; (2) University of Salamanca, Salamanca, Spain.

2:30 p.m.-2:45 p.m. Identification and characterization of *Ralstonia solanacearum*, the causal agent of bacterial wilt of tomato. **G. C. Romero** (2), C. E. Estevez (2), and A. J. Palmateer (1). (1) University of Florida, FL, U.S.A. (2) University of Puerto Rico, Puerto Rico.

2:45 p.m.-3:00 p.m. Field trials of phytopathogenic fungi as an alternative to control the invasive weed *Hyparrhenia rufa*. **V. L. Rivera**, L. I. Rivera, and A. Rodriguez, University of Puerto Rico-Mayagüez Campus, Mayagüez, Puerto Rico.

3:00 p.m.-3:30 p.m. **Afternoon Break (coffee and snacks)** (View undergraduate student posters)

3:30 p.m.-3:45p.m. Use of scanning electron microscopy in the speciation of *Glioccephalotrichum* spp. in rambutan (*Nephelium lappaceum* L.). **E. I. Latoni-Brailowsky** (1), L. M. Serrato-Diaz (2), L. I. Rivera-Vargas (1), R. Goenaga (3), and R. D. French-Monar (2). (1) University of Puerto Rico- Mayagüez Campus, Mayagüez, Puerto Rico; (2) Department of Plant Pathology and Microbiology, Texas AgriLife Extension Service-Texas A&M System, Amarillo, TX, U.S.A.; (3) USDA-ARS, Tropical Agriculture Research Station, Mayagüez, Puerto Rico.

3:45 p.m.-4:00 p.m. The genetic diversity of *Fusarium verticillioides* in Texas. C. S. Ortiz (2), **C. J. Richards** (1), A. Terry (1), J. Parra (1), and W. Shim (2). (1) Bioenvironmental Sciences Program, Texas A&M University, College Station, TX, U.S.A.; (2) Plant Pathology and Microbiology, Texas A&M University, College Station, TX, U.S.A.

4:00 p.m.-4:15 p.m. Use of a toothpick baiting method to detect and monitor *Rhizoctonia solani* that causes large patch in zoysiagrass in southeast Texas. **L. D. Nissen** and Y. Jo. Department of Plant Pathology & Microbiology, Texas A&M University, College Station, TX, U.S.A.



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4:15 p.m.-4:30 p.m. Occurrence of citrus viroid III in the northeast of Mexico. **C. E. Guerrero** (1) and O. G. Alvarado (2). (1) Universidad Autónoma de Nuevo Leon, Mexico, Nuevo León, Escobedo; (2) Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, Mexico.

4:30 p.m.-4:45 p.m. Sporulation and field movement of atoxigenic strains of *Aspergillus flavus* used for the management of aflatoxin in corn and cotton. **B. T. Hassett** and T. Isakeit. Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX, U.S.A.

4:45 p.m.-5:00 p.m. *Pantoea ananatis*, a maize plant pathogenic bacterium associated with chlorotic streaks and rolling upper leaves. **J. A. Peralta-Nava** (1), H. V. Silva-Rojas (1), P. D. Esker (3), G. Mahuku (2), A. L. Cortes-Cueto (1), and J. A. Rodriguez-Herrera (1). (1) Colegio de Postgraduados, Texcoco, Mexico; (2) Centro Internacional de Mejoramiento de Maíz y Trigo, Texcoco, Mexico; (3) University of Costa Rica, San Jose, Costa Rica.

5:00 p.m.-5:15 p.m. Discussion/Adjourn

6:30 p.m.-9:30 p.m. Banquet Dinner (Blue Marlin Ballroom). Dinner from 7:00 pm-9:00 pm. (Award Ceremony: Graduate Student Paper Competition, APS-CD Travel

Awards, French-Monar Latin American Fund, and the Frederick L. Wellman Award.

TUESDAY, APRIL 17, 2012

8:00 a.m.-6:00 p.m. Sand Dunes AB Room (Registration, Meeting)

7:00 a.m.-8:55 a.m. Registration

CONTRIBUTED PAPERS (Morning)

Moderated by: Aaron Palmateer and Lydia Rivera-Vargas.

8:55 a.m.-9:00 a.m.- Welcome, Opening remarks, and announcements.

9:00 a.m.-9:20 a.m. The impact of Pierce's disease on the Texas wine grape industry. **D. N. Appel**, Dept. of Plant Pathology and Microbiology, Texas A&M University, College Station, TX, U.S.A.

9:20 a.m.-9:40 a.m. Molecular analysis of the West Indian fruit fly *Anastrepha obliqua* collected in Jamaica using mitochondrial markers. **F. Into** (2), E. Schuenzel (2), N. Barr (3), S. Y. Park (1), and R. Ruiz-Arce (3). (1) Penn State, University Park, PA, U.S.A.; (2) The University of Texas-Pan American, Edinburg, TX, U.S.A.; (3) USDA-APHIS, Mission, TX, U.S.A.



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9:40 a.m.-10:00 a.m. Transmission of phytoplasmas associated with Texas Phoenix palm decline (16SrIV-D) to *Pritchardia pacifica* by the planthopper *Haplaxius crudus* (Cixiidae) in Yucatan, Mexico. J. Dzido (3), R. Sanchez Borges (1), M. Narvaez (1), J. Julia (2), C. Oropeza (1), and **M. Dollet** (2). (1) CICY, Merida, Yucatan, México; (2) CIRAD, 34398 Montpellier, France; (3) CIRAD, Merida, Yucatan, Mexico.

10:00 a.m.-10:30 a.m. **Morning Break (coffee and snacks)** (View Undergraduate Posters)

10:30 a.m.-10:50 a.m. Standard and High Fidelity PCR to detect *Pythium dissotocum* in hydroponically grown cilantro (*Coriandrum sativum* L.) **G. C. Romero** (2), C. E. Estévez (2), A. J. Palmateer (1). (1) University of Florida, Homestead, FL, U.S.A.; (2) University of Puerto Rico, Puerto Rico.

10:50 a.m.-11:10 a.m. The persistence of *Gliocephalotrichum bulbilium* and *G. simplex* causing fruit rot of rambutan in Puerto Rico. **L. M. Serrato-Díaz** (2), E. I. Latoni-Brailowsky (1), L. I. Rivera-Vargas (1), R. Goenaga (3), R. D. French-Monar (2). (1) University of Puerto Rico-Mayaguez Campus, Mayaguez, Puerto Rico; (2) Texas

AgriLife Extension Service-Texas A&M System, Amarillo, TX, U.S.A.; (3) USDA-ARS Tropical Agriculture Research Station, Mayaguez, Puerto Rico.

11:10 a.m.-11:30 a.m. Downy mildew on impatiens in Florida: Update on management options for the nursery and landscape. **A. J. Palmateer**, P. Lopez, I. Maguire. University of Florida, Homestead, FL, U.S.A.

11:30 a.m.-11:50 a.m. Novel seed treatment methods using non-thermal plasma for control of seedborne pathogens in rice. **W. A. Cromwell** (2), Y. Jo (2), and D. Shin (1) (1) Crop Environment Research Division, National Institute of Crop Science, Rural Development Administration, Suwon, Republic of Korea; (2) Texas A&M University, College Station, TX, U.S.A.

11:50 a.m.-12:10 p.m. The role of nutritional supplements in managing HLB. **H. Doostdar**, R. A. Atwood, and R. T. Mayer. KeyPlex, LLC, Inc., Winter Park, FL, U.S.A.

12:10 p.m.-1:30 p.m. Lunch (on your own)

CONTRIBUTED PAPERS (Afternoon)

Moderated by: Carol Ishimaru



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1:30 p.m.-1:50 p.m. Controlling psyllids on potatoes and citrus with tolfenpyrad. **Scott Ludwig (1)**, Botond Balogh (2), Allison Walston (3), Pedro Hernandez (4), and James Adams(5). (1) Nichino America, Inc, Arp, TX, U.S.A.; (2) Nichino America, Inc, Apollo Beach, FL, U.S.A.; (3) Nichino America, Inc, Wilmington, DE, U.S.A.; (4) Nichino America, Inc, Tulare, CA, U.S.A.; (5) Nichino America, Inc, Wilmington, DE, U.S.A.

1:50 p.m.-2:10 p.m. Ecological niche assessment of the causal agents of Huanglongbing and its vectors. **E. L. Schuenzel** and T. P. Ferial. University of Texas Pan American, Edinburg, TX, U.S.A.

2:10 p.m.-2:30 p.m. Microsatellite based genetic diversity and structure of 'Candidatus Liberibacter asiaticus' associated with citrus Huanglongbing worldwide. **M. Islam**, J. Glynn, H. Lin. USDA-ARS, Crop Diseases, Pests and Genetics Research Unit, Parlier, CA, U.S.A.

2:30 p.m.-2:50 p.m. Aspects of Climate Change That Relate to Crop Production and Pathology. **P. Vincelli**. Department of Plant Pathology, University of Kentucky, Lexington, KY, U.S.A.

2:50 p.m.-3:05 p.m. APS Update, Carol Ishimaru, APS President.

3:05 p.m.-3:30 p.m. **Afternoon Break**

3:30 p.m.-5:00 p.m.-CDAPS Business Meeting, Ronald French, CDAPS President, Presiding.

5:00 p.m.-5:30 p.m. Informal meeting of Texas Phytopathologists and Friends (Open)

UNDERGRADUATE STUDENT POSTERS

Duration: Monday, April 16, 2012-
Tuesday, April 17, 2012

Location: Sand Dunes AB (inside or
outside-to be determined)

Poster Set-up: 7:30 a.m., Monday, April
16, 2012. Check at registration. (Posters
need to be removed by 6:00 p.m. on
Tuesday, April 17, 2012)

P-1 Identification of bacteria used to
increase larval survivorship of fruit flies
used in sterile insect technique. R.
Contreras, R. Ramos, E. Sanchez, J.
Waggoner, and E. Schuenzel. University of
Texas Pan American, Edinburg, TX, U.S.A.

P-2 The population structure and
possible origin of the plant pathogen
Pseudomonas syringae pv. *actinidiae*. E.
Sebastian and E. L. Schuenzel. University
of Texas Pan American, Edinburg, TX,
U.S.A.



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VEGETABLE AND FIELD CROP “DISEASE” TOUR (Wednesday, April 18, 2012)

The tour group will meet at **8:30 a.m. at the Front Lobby** of the Pearl South Padre. The tour will be hosted by: Tom Isakeit, Plant Pathology and Microbiology, AgriLife Extension Service, Texas A&M University, College Station.

Make sure you are dressed appropriately for the occasion. Wear the right shoes. If sunny, protect yourself from the sun (hat, long-sleeves, pants). Insect repellent will be provided but may not be what you normally use.

Lunch is included as part of the tour. We will return at around 4:00 p.m. to the Pearl South Padre.

AWARDS

The Frederick L. Wellman Award recognizes a scientist who has an outstanding career as a plant pathologist. This is the highest distinction bestowed by the APS-CD to a distinguished plant pathologist. This is the highest distinction bestowed by the APS-CD to a distinguished plant pathologist that has worked during his/her career for the betterment of the science and profession in the context of the Caribbean Division. (Committee Chair, Dr. Lydia Rivera-Vargas, APS-CD Past-President).

Caribbean Division Travel Awards. The APS-CD Travel Award is intended to increase opportunities for students attending the Annual Meeting. Awards of \$500 will be available to APS-CD student members giving oral presentations at the annual meeting. (Committee Chair, Dr. Aaron Palmateer, APS-CD Secretary-Treasurer)

Graduate Student Paper Competition (Awards). The APS-CD will offer three student awards 1st, 2nd, and 3rd Place, each consisting of a certificate and a cash award by the Student Award Committee.

The French-Monar Latin American Fund was established by Edward R. French and Delia Monar French in August 2001. The earnings from this endowment provide financial support for plant pathologists from Latin America in a variety of ways, including: 1) assistance to attend meetings of the APS Caribbean Division or the Latin American Phytopathological Congress (organized by the Latin American Phytopathological Association [ALF]); 2) acquisition of APS PRESS publications or cost of publishing research papers in APS journals; 3) APS membership scholarships for the APS Group Membership option. (Committee Chair, Lawrence Datnoff, APS Foundation Representative).



Caribbean Division of The American Phytopathological Society

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Term: 03/23/2011 - 04/18/2012

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Term: 03/23/2011 - 06/19/2013

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Term: 08/11/2011 - 08/13/2014