47th Annual Joint Meeting

Florida and Louisiana Divisions

June 14 - 16, 2017

Astor Crowne Plaza
New Orleans, LA

"Organized for the Advancement of Mainland Cane Sugar"
American Society of Sugar Cane Technologists
Florida and Louisiana Divisions
47th Annual Joint Meeting

Freddie Martin, General Secretary-Treasurer
Paul White, Program Chair

Wednesday, June 14th

9:00      ASSCT Golf Tournament  (Audubon Park Golf Course)
9:30      Crop Germplasm Committee meeting (Astor I)
2:00-5:00 Registration  ***pick up pre-registration packets***  (Grand Ballroom Foyer)
1:30      FL Executive Committee meeting (Royal Boardroom)
           LA Executive Committee meeting (St. Ann)
3:00      Joint Executive Committee meeting (St. Ann)
5:30-6:30 Welcome Reception in Exhibit Hall  (Grand Ballroom)

Thursday, June 15th

Meals and Social Functions

9:45       Accompanying Persons meet at World War II Museum (World War II Museum)
12:00      Luncheon (tickets required)  (Grand Ballroom)
6:00–7:00  ASSCT Soirée (Grand Ballroom)

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Theater tickets to be used for Exhibitors’ Prize Drawings
See program for times. Tickets will be good for entire meeting.
Must be present to win.

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
**Thursday Morning, June 15**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>Registration</td>
<td>(Grand Ballroom Foyer)</td>
</tr>
<tr>
<td>8:00</td>
<td>Exhibits Open</td>
<td>(Grand Ballroom)</td>
</tr>
<tr>
<td>8:15</td>
<td>Early Bird Prize Drawings</td>
<td>(Grand Ballroom)</td>
</tr>
<tr>
<td>8:45</td>
<td>Plenary Session</td>
<td>(Astor Ballroom)</td>
</tr>
</tbody>
</table>

**Welcome and President’s Message**  
Stephen Savoie, Louisiana Division President

**Greetings and President’s Message**  
Chris LaBorde, Florida Division President

**General Business**
- General Secretary-Treasurer’s Report – Freddie Martin
- ISSCT Councilor Report - Les Baucum
- ASSCT Joint Meeting 2018 -  
  Chris LaBorde, Florida Division President
- ASSCT Joint Meeting 2019 -  
  Stephen Savoie, Louisiana Division President
- Journal Report – Collins Kimbeng, Editor
- Recognition of 2016 Program Chair and Best Presentations -  
  Hardev Sandhu
- Announcements -

**Coffee Break/Prize Drawings (Grand Ballroom)**

**Keynote Presentation / ASCL Contact Committee**
- Mr. Jack Roney, American Sugar Alliance  
  “The U.S. Sugar Market and Trade.”
- Mr. Rob Cerda, Crop Insurance Systems  
  “Sugar Cane Crop Insurance”

**2017 Program** – Paul White, Program Chair

Introduction of Session Chairs

**Presentation:**

*The Application of NIR Technology to Assess Cane Quality in Louisiana* - A. L. Hale, R. P. Viator, G. Eggleston, and A. Triplett
Thursday Afternoon, June 15th

Agriculture I
Astor I&II

1:05  Collins Kimbeng, Presiding

1:10  Successive planting effects on soil health, early sugarcane growth and yield in Florida Histosols – M. Vuyyuru, H. Sandhu, M. McCray, R. Raid, J. Erickson, and A. Ogram

1:30  New ground vs. old ground: A comparison of soil microbial communities as affected by sugarcane cropping history – A. Bigott, J. Hoy, and L. Fultz

1:50  Row spacing effects on sugarcane growth and yield in Florida Histosols - H. Sandhu

2:10  Does fallow planted soybean and sweet sorghum reduce plant cane density? – D. Spaunhorst and P. White

2:30  Identifying yield and regrowth traits for flowering and non-flowering sugarcane cultivars in Florida – D. Zhao and P. Aria

2:50  Sugarcane residue management: Influence of a modified sweeper on yields and water quality – M. Selim, B. Tubaña, and A. Arceneaux

3:10  Coffee Break/Prize Drawings (Grand Ballroom)

3:30  Oxisol water availability and its impacts on sugarcane water balance in the Brazilian Cerrados - F. Maia, J. Santos, M. D’avila, T. Leão, and V. Bufon

3:50  Sugarcane leaf area index influenced by the moment of salvage irrigation - J. Santos, M. D’avila, F. Maia, T. Leão and V. Bufon

4:10  Sugarcane yield response to silicon related to extractable soil silicon on Florida mineral soils – M. McCray and S. Ji

4:30  Biomass yields and juice production of energy cane at two locations in Georgia - B. Anderson, A. Missaoui, J. Knoll, A. Hale

4:50  Effect of sugarcane ripener glyphosate (Roundup PowerMAX® II) on growth and biomass characteristics of energy cane – S. Pinnamaneni, E. Barreto, K. Barrios, A. Oliveira, A. Orgeron, C. Kimbeng, M. Pontif, J. Jifon, and A. Hale
Thursday Afternoon, June 15th

Manufacturing I
Astor III

1:05 Albert Katryan, Presiding

1:10 How material selection contributes to the fulfilment of production requirements – I. Geyer, and H. Schmidt

1:30 The increasing role of automation in the production of raw sugar – J. Camel


2:10 Old sugar mill drives: overhaul or replacement by planetary gearbox? – M. Loewen and T. Youngblood

2:30 Chainless diffusers, mud recycling, and press water clarification - N. du Plessis, and B. Moore


3:10 Coffee Break/Prize Drawings (Grand Ballroom)

3:30 Ammonium in juice, syrup, and sugar – F. Ehrenhauser, C. Gaudet

3:50 Clarifier design and operation – M. del Carmen Perez

4:10 Lamella clarifiers, principle and applications in the sugar industry – S. Rosettenstein, M. Getaz, and P. Rein

4:30 Effect of feed source and pyrolysis conditions on sugarcane bagasse biochar – A. Hass and I. M. Lima
Posters: Thursday, June 15th, in Grand Gallery (Authors present 5:00-6:00 pm)

1. **Estimation of optimum replications of checks to compare yields in stage II of sugarcane breeding program for sandy soils in Florida** - O. Coto, H. Sandhu, M. Singh, and W. Davidson

2. **Effect of growth regulators, boron and molybdenum on sugarcane grown in the greenhouse** – D. P. da Silva, K. Richard, B. King, and R. Johnson


4. **Billet-planted sugarcane responds positively to chemical seed treatments** – P. White, J. Hoy, C. Webber III, K. Gravois, and H. Waguespack Jr

5. **Biomass yield and carbohydrate composition in sugarcane and energy cane** – D. Zhao, M. Irey, C. LaBorde, and C. Hu

6. **Sugarcane boiler ash as an amendment for soilless growing media** – C. Webber III, P. White, D. Spaunhorst, E. Petrie, and D. Landrum

7. **Allelopathic impact of HoCP 96-540 field residue on seed germination** – C. Webber III, P. White, D. Spaunhorst, and D. Landrum

8. **Effect of timing and frequency of fungicide applications on progress of brown rust and sugarcane yields** – B. Chaulagain, P. Rott, and R. Raid


10. **Development of an industrial method to measure total, soluble, and insoluble starch in sugarcane products** – M. Cole and G. Eggleston

11. **Clarification of energy cane juices** – F. Ehrenhauser, P. Gaston, S. Linares, C. Gaudet, E. Barreto, M. Pontiff, and C. Kimbeng

12. **Effect of potassium fertilizer application on the yield and quality of current sugarcane varieties in Louisiana** – R. Johnson

13. **Nitrogen release from polymer-coated urea as influenced by time of the year and fertilizer placement** – N. El-Hout and J. Fountain

14. **Genetic diversity in a collection of Saccharum spontaneum genotypes and their contribution to the Louisiana commercial sugarcane breeding program as revealed using AFLP markers** – S. Pinnamaneni, A. Suman, C. Kimbeng, M. Pontif, A. Hale and K. Gravois

15. **Field dissipation of clomazone in Florida sugarcane soils** – C. Odero and J. Fernandez


17. **Impact of Sugarcane Rust on Sugarcane Yield** – N. Asbani, G. Nuessly, H. Sandhu, R. Cherry, O. Liburd, and J. Beuzelin

18. **Internet enabled FTIR system for rapid sugar composition analysis** – K. Ma
Friday Morning, June 16th

Manufacturing II
Toulouse A & B

7:55  Jason Burke, Presiding

8:00  Boiling schemes for very high pol (VHP) sugar from high purity syrups – H. Birkett

8:20  The use of on-line video based colorimeter to optimize the process: A case study – C. Bouché

8:40  C-sugar crystal size in Louisiana – F. Ehrenhauser, C. Gaudet, I. Tishechkina, and D. Aragon

9:00  Continuous crystallisation of A and C product – A. Lehnberger, D. Laue, and R. Hempelmann

9:20  Quality determination of sugar inside continuous centrifugals – T. Diringer, and B.C. Nielsen

9:40  Evaporators for large first and second effects – B. Moor, R. Ramaru, and S. Rosettenstein

10:00  Coffee Break/Prize Drawings (Grand Ballroom)

10:20  CVPs for good quality sugar, low energy, and high availability – B. Moor, and N. du Plessis

10:40  Final molasses exhaustion based on experimental results and Sugars modeling software - F. Beyene, M. Comb, A. Avila, and S. L. Goudeau

11:00  Potential sugar recovery by de-ashing molasses streams – D. Aragon, and F. Ehrenhauser

11:20  Stopping Maillard reaction in molasses storage tank – F. Beyene and A. Avila

12:00  Awards – Denver T. Loupe Best Presentations & ASSCT Door Prizes

**Astor I & II - Must be present to win**
Friday Morning, June 16th

Agriculture II
Astor I & II

7:55 Niranjan Baisakh, Presiding

8:00 GGE analysis of ratooning ability in Louisiana sugarcane breeding – J. Todd, C. Kimbeng, A. Hale, K. Gravois, and E. Dufrene

8:20 The effects of genetic distance on trait variance in sugarcane – P. McCord and M. Irey

8:40 Assessing the potential of parents in the LSU AgCenter breeding nursery – A. Oliveira, E. Barreto, M. Daigle, M. Pontif, and C. Kimbeng

9:00 Length and nucleotide sequence polymorphism at the trnl and trnf non-coding regions of chloroplast genomes among Saccharum and Erianthus species – Y-B. Pan, J. Todd, B. Scheffler, A. Hale, L. Lomax, S. Simpson, F. Liu, and M. Grisham

9:20 Ramu stunt: an important viral disease from the home of sugarcane – K. Braithwaite, C. Ngo, L. Tom, and L. Kuniata


10:00 Coffee Break/Prize Drawings (Grand Ballroom)


10:40 The weed Sorghum almum is a putative alternative host of sugarcane infecting viruses in Florida – P. Rott, W. Boukari, C. Wei, E. Mulandesa, M. Hincapie, C. Kaye, and D. Mollova

11:00 Effect of sugarcane yellow leaf virus on yields of sugarcane grown on organic and mineral soils in Florida – W. Boukari, C. Kaye, C. Wei, M. Hincapie, L. Davis, M. Irey, C. LaBorde, and P. Rott


11:40 Field screening of sugarcane varieties for sugarcane yellow leaf in Louisiana – M. Grisham, J. R. Maggio, and K. Z. Warnke

12:00 Awards – Denver T. Loupe Best Presentations & ASSCT Door Prizes

**Astor I & II - Must be present to win**
Agriculture III
Astor III

7:55  Diego Luzuriaga, Presiding

8:00  **Effect of 2,4-D and atrazine when applied with glyphosate ripener** – A. Orgeron, E. Petrie, and K. Gravois


8:40  **Variable nitrogen rate technology in Louisiana sugarcane production systems** – B. Tubaña, H. Viator, M. Dalen, D. Forestieri, and M. Martins

9:00  **Effect of foliar application of glyphosate and cobalt on sugarcane yields and quality** – D. P. da Silva, K. Richard, B. King and R. Johnson


9:40  **Nutrient removal of energy cane and sugarcane as affected by nitrogen application, harvest date, planting scheme, and variety** - M. Dalen, B. Tubaña, D. Forestieri, S. Kwakye, and M. Martins

10:00  **Coffee Break/Prize Drawings (Grand Ballroom)**

10:20  **An update on fungicidal efficacy for management of brown and orange rusts of sugarcane** - R. Raid, B. Chaulagain, and P. Rott

10:40  **Efficacy and economic benefits of control of the sugarcane stem borers with reduced risk insecticides** – B. Wilson, J. Beuzelin, and M. VanWeelden

11:00  **The initiation date of fungicide applications affects progress of orange rust and sugarcane yields** – B. Chaulagain, P. Rott, N. Dufault, and R. Raid

11:20  **Implementation of next generation sequencing for high-throughput pathogen detection in sugarcane introductions grown in quarantine** – M. Malapi-Wight, L. Kumar, D. Mollov and J. Foster

11:40  **Sugarcane 100K SNP array development and application** – Q. You, X. Yang, J. Song, M. Islam, L. Xu, J. Comstock, and J. Wang

12:00  **Awards – Denver T. Loupe Best Presentations & ASSCT Door Prizes**

**Astor I & II - Must be present to win**
AMERICAN SOCIETY OF SUGAR CANE TECHNOLOGISTS OFFICERS

Florida Division

Chris LaBorde
United States Sugar Corp.
Clewiston, FL

Manuel Lezcno
Sugar Cane Growers Coop FL
Belle Glade, FL

Rosa Muchovej
United States Sugar Corp.
Clewiston, FL

Diego Luzuriaga
Florida Crystals Corp.
Pahokee, FL

Albert Katryan
United States Sugar Corp.
Clewiston, FL

Erick Ramos
Florida Crystals Corp.
Pahokee, FL

Bruce McManus
United States Sugar Corp.
Clewiston, FL

Secretary-Treasurer
Les Baucum
United States Sugar Corp.
Clewiston, FL

Louisiana Division

Stephen Savoie
Lula-Westfield
Paincourtville, LA

Gene Adolph
Adolph Farms Inc.
Napoleonville, LA

Alan Chatman
Alma Plantation
Lakeland, LA

Collins Kimbeng
Sugar Research Station
St. Gabriel, LA

Jason Burke
Cajun Sugar Co.
New Iberia, LA

Ben Legendre
Audubon Sugar Institute
St. Gabriel, LA

Richard M. Johnson
USDA-ARS Sugarcane Res Unit,
Houma, LA

Kenneth Gravois
Sugar Research Station
St. Gabriel, LA

FUTURE MEETINGS

Florida Division

September 15, 2017
UF/IFAS Everglades Research and Education Center, Belle Glade, FL

Louisiana Division

February 6-8, 2018
Crowne Plaza
Baton Rouge, LA

Joint Meeting

June 25-27, 2018
Hyatt Regency Coconut Point
Bonita Springs, FL
Our Thanks to the 2017 Exhibitors

Alfred Conhagen, Inc
Anton Paar USA
ARM Services, LLC
ATAGO
Atlantic Bearing Services
B & D Technologies
Blasch Precision Ceramics
BMA America
Bray Controls / SISCO
Broadbent, Inc
Brucker Optics
Cooling Tower Depot, Inc
Corporacion POK S.S. de C.V.
Dome Technology
Electric South
EngineWorx / John H. Carter Co
Fuchs Lubricants Co
Game Equipment, LLC
Harrell’s
Honiron Manufacturing
Honiron Fire Equipment
ICL Specialty Fertilizers
Inpro / Seal
Lufkin Industries, LLC
Luftex Gears
M & H USA Enterprises, Inc
Magnum Steel Co
Martin Sprocket & Gear
National Governor & Controls, Inc
Neltec Denmark A/S
Powerhouse Technology
Pro Tech USA
Process Barron
PRODEK, Inc
R. J. Tricon Co
Renold Jeffrey
Schubert and Salzer
SEW-Eurodrive, Inc
Shrijee Process Engineering Works, LTD
Solaris Controls
Southwest Engineers
Sugar Manufacturers Supply Corp
T & M Aviation, Inc
Total Boiler & Mechanical, LLC
Vesconite Bearings
Wear Concepts, Inc
WEBCO Industries
Western States
William S. Nadler Jr., Inc
The American Society of Sugar Cane Technologists expresses its appreciation to the corporate sponsors who underwrote part of the cost of the 2017 Annual Joint Meeting.

GOLD LEVEL SPONSORS

processbarron

AICL Specialty Fertilizers

R.J. Tricon Company

SILVER LEVEL SPONSORS

ARM Services Alternative Repair & Machining

RENOUD JEFFREY

Neltec Real-Time Colour

BMA

POK

POWERHOUSE TECHNOLOGY

WEBCO INDUSTRIES

LUFTEX

SEW EURODRIVE

Electric South www.electricsouth.com