

8th ISSCT AGRONOMY WORKSHOP
Center Convention
Uberlândia, Brazil
May 25-28, 2009

Summary Report

The 8th ISSCT Agronomy Workshop was held from 25 to 28 May 2009 in Uberlândia, Brazil. The Agronomy Workshop brought together researchers, producers and growers interested on sharing information and advances in the sugarcane production.

The Agronomy Workshop was attended by 76 delegates and, of these 21 were scientists from countries outside Brazil: Argentina, Australia, France, India, Japan, Mauritius, South Africa, Thailand and U.S.A (Table 1).

Table 1. Country of origin and number of attendees of the 8th ISSCT Agronomy Workshop.

Country	Number	Country	Number
Argentina	4	Japan	2
Australia	1	Mauritius	2
Brazil	55	South Africa	3
France	1	Thailand	2
India	1	USA	5
TOTAL			76

The 8th Agronomy Workshop had one keynote speakers covering the topic "Perspective for the sugarcane production in Brazil and in the world by Dr. Roberto Rodrigues (Minister of Agriculture and Professor from the Getúlio Vargas Foundation). The presentation was excellent and covered topics not only the Brazilian perspective but also the world perspective for the sugarcane production.

Monday, 25/05	
Opening Session	
- Opening Session: Message from authorities	Secretary of Agriculture, Uberlândia Mayor, Deans, etc.
- Keynote address - Perspective for the sugarcane production in Brazil and in the world	Dr. Roberto Rodrigues - Brazil
Session 1 - New technologies for sustainable sugarcane production	Chairman Dr. Robert Gilbert
- Yield potential of drip irrigated sugarcane varieties	Dr. M. A. Silva - Brazil
- High quality seed cane production in Tucumán-Argentina: technological advances and impact	Dr. J. Giardina - Argentina
- Cane productivity improvement by integrated technology: yield and economic return	Dr. T. Klomsa-Ard - Thailand
- Impact of sugarcane cultivar ideotype on biomass accumulation and partitioning to sugars and fibre	Dr. G. Kingston - Australia
Session 2 - Ratoon yield decline and its management	Chairman Dr. R. Viator
- Yield response of sugarcane ratoons after trash management systems in two sites of central São Paulo State, Brazil	Dr. C. Fortes - Brazil
- Silicon and its effects on sugarcane productivity and induction of resistance to spittlebugs, <i>Mahanarva fimbriolata</i> STÅL	Dr. D.R.B. Wangen - Brazil
- Assessment of two sugarcane management systems: with or without post-green-cane harvest residue retention.	Dr. P. Digonzelli - Argentina
- Effect of silicon on the development of the spittlebug <i>Mahanarva fimbriolata</i> STÅL	Dr. A.P. Korndorfer - Brazil
- Effect of residue management on sugarcane yield grown on sharkey clay soil	Dr. H. M. Selim - USA
Session 3 - Modeling sugarcane growth and production	Chairman Dr. René Kwong
- Investigating variety-by-cutting cycle interactions for coastal sugarcane production in South Africa	Dr. S. Ramburan - South Africa
- The new DSSAT4.5 Canegro model	Dr. A. Singels - South Africa
- A procedure to model biomass and sugar accumulation process by fuzzy systems	Dr. A. P. Godoy - Brazil
- Climate change scenarios on sugarcane yields in São Paulo State, Brazil.	Dr. F.R. Marin - Brazil
Tuesday, 26/05	
Field Trip Guaira Sugar-mill - Guaira/SP (Lunch supported by John Deere)	Agricultural Operations: silicate application (variable rate), green-harvest, fertigation, application of organic waste (filter cake).

Wednesday, 27/05	
Session 4 - Soil and plant residues management	Chairman Dr. Graham Kingston
- Determination of yield and soil variability in Louisiana sugarcane using selected tools of precision agriculture	Dr. R.M. Johnson - USA
- Amount of nutrients accumulation in different sugarcane varieties/lines.	Dr. S. Ando - Japan
- Agronomic assessment of the use of foliar biofertilizers in nitrogen fertilization of sugarcane in Tucumán-Argentina.	Dr. L. Alonso - Argentina
- Sugarcane post-harvest residue management in Louisiana.	Dr. R. Viator - USA
- Productivity and quality of sugarcane, RB867515 and RB925345 variety, with application of crushed basalt.	Dr. F.M. Fernandes - Brazil
- Management of soil with leguminosae green fertilizers in control of weeds in area of reform of sugarcane.	Dr. A.C. Bolonhezi - Brazil
- Leguminosae green manure in cane-brake reforms area in savannah soil.	Dr. A.C. Bolonhezi - Brazil
- Effect of filter mud applications on sugarcane growth and soil chemical and physical properties.	Dr. T.M. Elsayed - Sudan
- Soil core sampling or root counting on trench profile for studying root system distribution of sugarcane.	Dr. J. L. Chopart - France
- Effect of harvest method on sugarcane growth and yield in Florida and Costa Rica.	Dr. R. A. Gilbert - USA
- Effects of three soil management on sugarcane root system and yield in a deep soil.	Dr. M.C.B. de Azevedo - Brazil
- Crop rotation and phosphate fertilization on sugar cane yield.	Dr. G.H. Korndörfer - Brazil
- Intercropping potential of tropical sugar beet (<i>Beta vulgaris</i> L.ssp <i>vulgaris</i> var <i>altissima</i> Doll) with sugarcane.	Dr. N.R. Yekkeli - India
Poster Session	Center Convention
Thursday, 28/05	
Session 5 - Challenge of environmental pressure and strategy for the sugarcane growers	Chairman Dr. E.G. Beauclair
- Can we justify sugarcane production without mulching? A challenge in Kagoshima.	Dr. S. Ishikawa - Japan
- Weed management strategies to reduce costs and amount of herbicides in the Mauritian sugar cane industry.	Dr. S. Seeruttun - Mauritius
- Effect of post harvest trash management in sugarcane shoot emergence dynamic for Tucumán - Argentina.	Dr. J. Tonatto - Argentina
- Effectiveness of applying ripener associated with silicon on the leaf and its implications in the development, productivity and regrowth of sugarcane.	Dr. C.A.C. Crusciol - Brazil
- Towards data collection standards for sugarcane growth monitoring	Dr. M. van den Berg - South Africa
- Environment matrix and biometry of sugarcane	Dr. M.G.A. Landell - Brazil
- Productivity of three sugarcane varieties in two crop cycles on dry and drip irrigated management	Dr. G.J.C. Gava - Brazil
- The forgotten pillar of sustainable sugarcane production	Dr. M. van den Berg - South Africa
Session 6 - Ending Session	Discussion on the local of the next ISSCT meeting.

As with all Agronomy Workshops, opportunities for cultural enlightenment were provided, and two social evening was held at the Center Convention, where all were treated to a hearty meal and had the opportunity to enjoy watching the group "Tabinha", the "Samba School Dance" and many other attractions.

There were 44 technical presentations during four days of the workshop. The Tuesday visit to Guaíra Sugar-mill as part of the Field Trip complemented the high scientific component of the Workshop. During the Field Trip to Guaíra Sugar-mill the participants had the opportunities to see many different sugarcane field operations.

FIELD DAY - GUAÍRA SUGAR-MILL

Date: 05/26/2009 - Tuesday

Location: Guaíra Sugar-mill - City of Guaíra (SP)

Number of Participants: 120

Objective: demonstrate to the participants the main agricultural and industrial operations developed in Guaíra Sugar-mill (application of fertilizers and correctives in variable rate, waste management, mechanical harvesting, mechanical planting, silicate and phosphate application, etc).

Visiting Stations:

Station I - Conservation tillage: soybean and sugarcane rotation (Guaíra Sugar-mill);

Station II - Mechanical and PLENE planting system (Syngenta);

Station III - Cultural practices - application of stillage, filter cake and ash (Guaíra Sugar-mill);

Station IV - Precision Agriculture (Autopilot / RTK, phosphate and silicate on variable rate;

Station V - Mechanical/Green Harvest (John Deere).

An ending session was set aside for discussion and concluding remarks. Discussions were held on future joint projects and goals for the group as well as a possible site for the next workshop. After some discussion Australia was selected to held the next Agronomy Workshop.

Conclusions

The 8th Agronomy Workshop was a successful meeting in terms of presenting a high level of knowledge to those delegates investing the time and money to attend. All the presentations were of scientific merit, with adequate time allowed for discussions. It was decided that the 9th Agronomy Workshop will be held in Australia.

Acknowledgement

We thank the Federal University of Uberlândia and all the Agronomy students involved in the organizing meeting and shared their friendship. We would like also to acknowledge the Guaíra Sugar-mill for providing excellent support for the Field Trip.



Delegates and organizing committee of the 7th ISSCT Agronomy Workshop
Uberlândia, Brazil



Station I: Field Trip to Guaíra Sugar-mill



Opening Session with Secretary of Agriculture, City Mayor, University of Uberlândia Deans, Representing of ISSCT, others authorities and the municipal band.