

VIIth ISSCT PATHOLOGY WORKSHOP

Louisiana, USA,
11-16 May, 2003

"ADVANCES AND CHALLENGES IN SUGARCANE PATHOLOGY"

Hosted by **ASSCT**

in collaboration with Louisiana State University Agricultural Centre and **US Dept of Agriculture Sugarcane Research Unit**
Louisiana, USA

➤ PROGRAMME

➤ REPORT

PROGRAMME

Workshop session themes

The following themes will be covered:

- Etiology and host parasite interactions
- Ecology and epidemiology
- Disease losses and management strategies
- Pathogen taxonomy and systematics
- Genomics and transgenics
- Ratoon stunting disease
- Virus systematics and possible virus threats
- Basic and molecular breeding for disease resistance

Sunday, May 11, 2003	
3:00 pm	Registration, Lod Cook Hotel
5:00 pm	Welcome social and dinner, Jeff Hoy's home
Monday, May 12, 2003	
8:30 am	Welcome <i>Dr. David Boethel, Associate Vice-Chancellor, LSU AgCenter</i>
8:40 am	Introductions and Announcements <i>Jeff Hoy</i>
8:50 am	Status of sugarcane disease names <i>Philippe Rott</i>
9:00 am	Virus disease session, introduction <i>Mike Grisham, Chair</i>
9:05 am	Reliability of leaf-midrib tissue blot immunoassay to detect Sugarcane yellow leaf virus and differences between cultivars in rate of spread <i>Jack Comstock</i>
9:25 am	Infection of sugarcane by SCYLV associated with high populations of <i>Melanaphis sacchari</i> in Guadeloupe <i>Jean Daugrois</i>
9:45 am	Increase of SCYLV in Louisiana <i>Jeff Hoy</i>
10:05 am	Tea break
10:30 am	Current status of SCYLV infection in commercial cultivars in sugarcane growing regions of the world <i>Axel Lehrer</i>

10:50 am	Field trial evaluations comparing disease levels and yields in Kleentek® and traditional seedcane sources among several varieties in south Florida <i>Jeff Flynn</i>
11:10 am	Yield effect caused by the virus associated with sugarcane yellow leaf syndrome in commercial fields in the Columbian sugar industry <i>Jorge Victoria</i>
11:30 am	Resistance of different varieties of sugarcane to the virus that causes yellow leaf syndrome <i>Jorge Victoria</i>
11:50 am	Lunch
1:00 pm	Transgenic plants of CC 84-75 resistant to the virus associated with the sugarcane yellow leaf syndrome <i>Jorge Victoria</i>
1:20 pm	Transformation of CP 92-1666 with an antisense coat protein gene of the Sugarcane yellow leaf luteovirus <i>Mike Davis</i>
1:40 pm	Poster introductions Purification of Sugarcane yellow leaf virus and antiserum production <i>Axel Lehrer</i> Genetic diversity of Sugarcane yellow leaf virus isolates from several countries and especially from Reunion Island <i>Philippe Rott</i>
1:45 pm	Discussion
2:15 pm	Other viruses, introduction <i>Philippe Rott, chair</i>
2:20 pm	Genetic diversity and variability in pathogenicity of Sugarcane mosaic virus isolates from Cameroon and Congo <i>Jean-Claude Girard</i>
2:40 pm	Variability of the sugarcane mosaic virus complex in Louisiana <i>Mike Grisham</i>
3:00 pm	Tea break
3:30 pm	Mosaic symptoms in sugarcane are caused by Sugarcane streak mosaic virus (SCSMV) in several Asian countries <i>Philippe Rott</i>
3:50 pm	Cultivar resistance to Fiji disease virus and/or to Perkinsiella saccharicida, the planthopper vector of the virus <i>Barry Croft</i>
4:10 pm	Discussion
4:50 pm	View posters/Social hour
6:00 pm	Dinner
7:00 pm	Tour of LSU Department of Plant Pathology and Crop Physiology (<i>optional</i>)
Tuesday, May 13, 2003	
8:30 am	Fungal diseases, introduction <i>Jack Comstock, chair</i>
8:40 am	Characterization of yellow spot and brown spot pathogens of sugarcane <i>Salem Saumtally</i>

9:00 am	Comparative performance of sugarcane genotypes to different pathotypes/isolates of red rot pathogen (<i>Colletotrichum falcatum</i> Went) <i>Kushal Raj</i>
9:20 am	Studies on biochemical markers in relation to cane genotype resistance to red rot <i>S.B. Singh</i>
9:40 am	Genetic variation within a worldwide collection of sugarcane smut isolates <i>Kathy Braithwaite</i>
10:00 am	Tea break
10:30 am	Differentiation of <i>Ustilago scitaminea</i> races in Hawaii <i>Susan Schenck</i>
10:50 am	Poster introductions
	Sugarcane smut incursion management in Australia <i>Barry Croft</i>
	Management of the orange rust epidemic in Australia <i>Barry Croft</i>
11:00 am	Discussion
11:30 am	Bacterial diseases, introduction <i>Salem Saumtally, chair</i>
11:35 am	Characterization of sugarcane yellows phytoplasma from Mauritius <i>Asha Dookun-Saumtally</i>
12:00 pm	Lunch
1:00 pm	Genetic analysis of Australian and international isolates of <i>Clavibacter</i> (<i>Leifsonia</i>) <i>xyli</i> subsp. <i>xyli</i> <i>Barry Croft</i>
1:20 pm	Epiphytic life of <i>Xanthomonas albilineans</i> is involved in the infection process of sugarcane by leaf scald in Gaudeloupe <i>Jean Daugrois</i>
1:40 pm	Poster introductions Molecular characterization, detection and distribution of <i>Xanthomonas</i> sp., causal agent of false red stripe disease of sugarcane, by Rep-PCR <i>Carol Marchiori</i> Cloning, sequencing and analysis of the 16S-23S rDNA spacer regions of <i>Xanthomonas</i> species pathogenic to sugarcane <i>Laura Assumpcao</i> Genetic diversity and variability in pathogenicity of xanthomonads pathogenic to sugarcane in Reunion Island <i>Laurent Costet</i> Control of RSD with a public and private sector partnership <i>Jeff Hoy</i> Comparison of microbial communities in soil with and without a sugarcane cropping history <i>Carolyn Savario</i>
2:00 pm	Discussion
2:30 pm	Sugarcane diseases, introduction <i>Barry Croft, chair</i>
2:50 pm	Tea break
3:20 pm	Diseases of sugarcane in Nusa Tenggara province of Indonesia, the island bridge to New Guinea

	<i>Barry Croft</i>
3:40 pm	Current situation of sugarcane diseases in Tucuman, Argentina <i>Jacque Ramallo</i>
4:00 pm	Detection of diseases in introduced varieties of sugarcane <i>Fe Dela Cueva</i>
4:20 pm	Progress of sugarcane pathology in Brazil <i>Eder Giglioti</i>
5:00 pm	Discussion
5:30 pm	View posters and social hour
6:30 pm	<i>Dinner</i>
7:30 pm	Return to hotels
Wednesday, May 14, 2003	
7:30 am	Depart on bus tour
10:00 am	Swamp tour
11:45 am	<i>Lunch and tour of USDA Ardoyne research farm</i>
1:30 pm	Visit USDA Sugarcane Research Unit in Houma
3:00 pm	Visit Kleentek® seedcane farm
4:30 pm	Visit Cameco research farm
5:00 pm	<i>Social hour and dinner at Cameco camp</i>
8:30 pm	Return to hotels
Thursday, May 15, 2003	
7:30 am	Depart on bus tour
9:30 am	Tour Oak Alley Plantation
11:00 am	Tour Laurel Valley Plantation, lunch
2:00 pm	Visit LSU AgCenter research farm at St. Gabriel
3:00 pm	Return to hotels
6:00 pm	Social hour, farewell dinner at LSU Faculty Club
Friday, May 16, 2003	
8:00 am	Brief up-dates on important disease problems and current research projects All interested participants (5 minutes each), Philippe Rott presiding
10:30 am	<i>Tea break</i>
11:00 am	Wrap-up, plans for Congress and next workshop
11:30 am	Pathology Committee Meeting
12:30 pm	<i>Lunch and departures</i>
POST WORKSHOP TOUR (Optional)	
19-20 May	Florida industry and research programs and facilities, including the USDA-ARS Sugarcane Field Station at Canal Point, the University of Florida Everglades Research and Education Center, and the Research Department at US Sugar Corporation