



## SASTA CONGRESS 2008 PROGRAMME

**Tuesday 29 July 2008: Day 1: PLENARY (COMBINED FACTORY AND AGRICULTURE) - International Convention Centre Hall 5CD**

<b>07:00-09:30</b>	<b>REGISTRATION International Convention Centre (ICC) Hall 5 Foyer</b>	
<b>08:00-10:00</b>	<b>TEA in Exhibition Hall - Hall 4CD5AB</b>	
<b>10:00-12:35</b>	<b>OPENING SESSION - Hall 5CD</b> <span style="float: right;"><b>Chair: Paul Schorn</b></span>	
<b>10:00</b>	SASTA President: Paul Schorn	Welcome
<b>10:05-10:40</b>	Dr Derek Hanekom, DST	
<b>10:40-11:15</b>	Dr Daan Louw, Director: Optimal Agricultural Business Systems (OABS)	
<b>11:15</b>	SASTA Patron: Martin Mohale	Vote of thanks
<b>11:20</b>	Presentation of SASTA gold medal and 2008 Agriculture Innovation Award	
<b>11:25</b>	SB Davis & M Achary	<a href="#">Eighty-third annual review of the milling season in southern Africa (2007-2008)</a>
<b>11:50</b>	M van den Berg, A Singels, RM Armitage, MJ Way and SA McFarlane	<a href="#">South African sugarcane production and quality in the 2007-2008 milling season: an unfulfilled promise?</a>



# Programme

12:15	CN Bezuidenhout	A farmers market at the local sugar mill: lean versus agile
12:35-13:30	LUNCH in Exhibition Hall	
13:30-15:10	<b>PLENARY SESSION ONE - Hall 5CD</b> <span style="float: right;"><b>Chair: Kathy Hurly</b></span>	
13:30	G Eggleston, PG Morel du Boil and SN Walford	A review of sugarcane deterioration in the United States and South Africa
13:55	BS Purchase, AT Wynne, E Meyer and R van Antwerpen	Is there profit in cane trash? Another dimension to the assessment of trashing versus burning
14:20	AT Wynne, CG Gillitt, AB Gabriel and RM Armitage	Optimising industry productivity: re-thinking the strategy of technology transfer using a benchmark farm concept
14:45	RE Limb	The effective communication of agricultural R&D output in the UK beet sugar industry
15:10-15:40	TEA in Exhibition Hall	
15:40-16:45	<b>PLENARY SESSION TWO - Hall 5CD</b> <span style="float: right;"><b>Chair: Martin Eweg</b></span>	
15:40	AD Church, GM Groom, DN Thomson and VR Dlamini	Small-scale cane grower development models: some lessons from sub-Saharan Africa
16:05	I Mahlangu and F Lewis	Social and institutional constraints to the production of sugarcane by small-scale growers in the Amatikulu catchment



16:25	A Singels, N Kaptein and D Mthembu	Evaluation of an operational irrigation advisory service to small-scale sugarcane farmers
17:00-20:00	MEET and GREET in Exhibition Hall – Hall 4CD5AB	
<b>Wednesday 30 July 2008: Day 2 FACTORY - ICC Hall 5D</b>		
09:00-10:30	<b>FACTORY SESSION ONE: Mills and Diffusers</b>	<b>Chair: Steve Davis</b>
9:00	SS Munsamy	The effect of scalding juice temperature on extraction in a cane diffuser
9:30	BM Schoonees-Muir	Dosing of starch hydrolysing enzymes into a diffuser
10:00	SS Munsamy	Optimising bagasse dewatering in a cane diffuser at Sezela sugar factory
10:30-11:00	TEA in Exhibition Hall	
11:00-12:50	<b>FACTORY SESSION TWO: Raw House Operations</b>	<b>Chair: Stanley Munsamy</b>
11:00	BM Schoonees-Muir and BMM Gwegwe	The use of polyaluminium coagulants for the removal of colour during clarification
11:25	S Madho and SB Davis	Review of proven technologies available for the reduction of raw sugar colour
11:55	S Rama and SS Munsamy	The effect of tube wetting rate on Kestner performance at Sezela factory



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12:20	MI Zulu, MB Ninela, DJ Muzzell and FS Mncube	Panfloor modifications that improved performance at Amatikulu mill
12:50-13:40 or 12:50-14:15 (if not attending SASTA AGM) LUNCH in Exhibition Hall		
13:40-14:10	<b>SASTA AGM</b>	
14:15-14:45	<b>FACTORY SESSION THREE: Posters</b>	<b>Chair: Paul Schorn</b>
14:15	B Barker and J Wesley-Smith	Pith/fibre measurement of sugarcane varieties using a stereomicroscope
14:25	RC Loubser and J Reeves	Force analysis in handling whole stick cane
14:35	BM Schoonees-Muir and MA Gooch	The use of ultrasound for on-line crystal size distribution (CSD) analyses
14:45-15:15	TEA in Exhibition Hall	
15:15-16:15	<b>FACTORY SESSION FOUR: Computers and Modelling</b>	<b>Chair: David Love</b>
15:15	RC Loubser	Data-logging using commercial off-the-shelf components
15:45	P Sharma and SD Peacock	Monte Carlo simulation: an alternative to single point data entry for technical modelling
	EVENING AT LEISURE	



Thursday 31 July 2008: Day 3 FACTORY – ICC Hall 5D		
<b>08:10-10:00</b>	<b>FACTORY SESSION FIVE: Measurement and Analyses</b>	<b>Chair: Dennis Walthew</b>
<b>8:10</b>	B Barker	Masseccite consistency measurement using a pipeline viscometer
<b>8:35</b>	GRE Lionnet	The use of capillary viscometry to survey viscosity in cane sugar factories
<b>9:05</b>	R Simpson and J Oxley	Routine Analysis of molasses and mixed juice by NIR spectroscopy
<b>9:35</b>	SN Walford	Sugarcane bagasse: how easy is it to measure its constituents?
<b>10:00-10:30</b>	TEA	
<b>10:30-12:30</b>	<b>COMMERCIAL BREAK</b>	
<b>12:30-13:30</b>	LUNCH	
<b>13:30-15:00</b>	<b>FACTORY SESSION SEVEN: WORKSHOP I - The Future of Energy in a Cane Sugar Factory</b>	<b>Chair: Gavin Smith</b>
<b>13:30</b>	Presentation 1	
<b>14:00</b>	Presentation 2	
<b>14:30</b>	Presentation 3	



15:00-15:30	TEA	
15:30-17:00	<b>FACTORY SESSION EIGHT: WORKSHOP II - The Future of Energy in a Cane Sugar Factory</b> <span style="float: right;"><b>Chair: Gavin Smith</b></span>	
15:30	Presentation 4	
16:00	Presentation 5	
16:30	DISCUSSION	
<b>Wednesday 30 July 2008: Day 2 AGRICULTURE – ICC Hall 5C</b>		
8:00	<b>AGRICULTURE SESSION ONE: Pests</b> <span style="float: right;"><b>Chair: Malcolm Keeping</b></span>	
8:00	SD Berry, P Cadet, R Parfitt, D Thomas and VW Spaul	Nematological environment and selection pressure on six SASRI Research farms
8:25	EM Abdel-Rahman, FB Ahmed, M van den Berg and MJ Way	Preliminary study on sugarcane thrips ( <i>Fulmekioli serrata</i> ) damage detection using imaging spectroscopy
8:45	Y Assefa, DE Conlong, J van den Berg and BP Le Rü	The wider distribution of <i>Eldana saccharina</i> (Lepidoptera: Pyralidae) in South Africa and its potential risk to maize production
9:10	AJ Walton and DE Conlong	Use of oil soluble dyes to mark adult <i>Eldana saccharina</i> (Lepidoptera: Pyralidae)



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9:35	SD Berry and VW Spaul	Use of Cropguard® to improve sugarcane yield on nematode-infested soils of South Africa
10:00	GW Leslie	Estimating the economic injury level and the economic threshold for the use of Fastac® against <i>Eldana saccharina</i> (Lepidoptera: Pyralidae)
10:20-10:50	TEA in Exhibition Hall	
10:50-12:00	<b>AGRICULTURE SESSION TWO: Crop Nutrition</b>	<b>Chair: Rowan Stranack</b>
10:50	N Miles, JH Meyer and R van Antwerpen	Soil organic matter data: what do they mean?
11:15	A Weigel, JH Meyer, S Moodley, W Tonsing, DJ Nixon and M van den Berg	Drip irrigated sugarcane response to nitrogen applied in dry form and by fertigation in late and early season cycles
11:40	M Brouwers, N Vassal-Courtaillac and AA Osman	Mineral Nitrogen contents in a cane-cropped vertisols of Sudan and Guadeloupe as influenced by urea application management
12:00-12:50	<b>AGRICULTURE SESSION THREE: Agriculture Posters I</b>	<b>Chair: Riekert van Heerden</b>
12:00	PL Campbell	Efficacy of glyphosate applied to short- and long-stolon <i>Cynodon dactylon</i> and the search for alternative post-emergence herbicides



# Programme

12:10	A Chirchir, J Kimenju and F Olubayo	Occurrence, abundance and distribution of plant parasitic nematodes associated with sugarcane in western Kenya
12:20	CO Olweny and J Jamoza	Effect of plant density on seedcane yield of tissue cultured cane plantlets
12:30	P Sithole, A Singels and S Walker	Accuracy of solar radiation estimates in the South African sugar belt
12:40	MJ Way	Arthropods associated with sugarcane leaf spindles in South Africa
12:50-13:40 or 12:50-14:15 (if not attending SASTA AGM) LUNCH in Exhibition Hall		
13:40-14:10	<b>SASTA AGM</b>	
14:15-15:25	<b>AGRICULTURE SESSION FOUR: Diseases</b>	<b>Chair: Sumita Ramgareeb</b>
14:15	T van Antwerpen and RS Rutherford	Increased risk of new virus infections in the South African sugarcane industry: preparing for the future
14:40	P Zvoutete	Fluctuations in the levels of smut ( <i>Ustilago scitaminea</i> ) in response to changes in disease management strategies in the Zimbabwe sugar industry
15:05	SA McFarlane, JH Meyer, P Cadet and RS Rutherford	Investigation into the effect of nutrition on brown rust development in sugarcane



15:25-15:55	TEA in Exhibition Hall	
15:55-17:30	<b>AGRICULTURE SESSION FIVE: Mechanisation</b>	<b>Chair: Louis Lagrange</b>
15:55	SL Cowling	Mechanical design optimisation of a sugarcane haulage vehicle
16:20	MI Langton, TR Harding and PWL Lyne	Preliminary results of the Canethumper® operating on the lower South Coast of South Africa
16:45	R van Antwerpen, PWL Lyne, E Meyer and M Brouwers	Effect of surface applied pressure by vehicles fitted with pneumatic tyres on properties of a virgin soil
17:10	P-Y Le-Gal, J Le Masson, CN Bezuidenhout, LF Lagrange and PWL Lyne	Impacts of harvest mechanisation on mill cane supply: a modelling approach
<b>Thursday 31 July 2008: Day 3 AGRICULTURE – ICC Hall 5C</b>		
08:00-09:50	<b>AGRICULTURE SESSION SIX: Transport</b>	<b>Chair: Peter Lyne</b>
8:00	JJ Murray	Harvesting contractors: theory and evidence from Mpumalanga
8:25	AJ Harris, CN Bezuidenhout, LF Lagrange and PWL Lyne	Development of a sugarcane transport route planning model in a geographical information system
8:45	BC McDonald, E Dube and CN Bezuidenhout	Transwarm: a sugarcane transport simulation model based on behavioural logistics



9:05	LF Lagrange, TR Pletts, CN Bezuidenhout and PWL Lyne	The feasibility of automatic on-board weighing systems in the South African sugarcane transport industry
9:25	PA Nordengen, H Prem and PWL Lyne	Performance-Based Standards (PBS) vehicles for transport in the agricultural sector
09:50-10:20	TEA in Exhibition Hall	
10:20-11:45	<b>AGRICULTURE SESSION SEVEN: Irrigation</b>	<b>Chair: Geoff Maher</b>
10:20	RM Armitage, NL Lecler, A Jumman and K Dowe	Implementation of the <i>Irriecon V2</i> decision support tool to assess net returns to irrigation systems
10:45	KR Greaves, NL Lecler and JC Smithers	Benchmarking irrigation water use and sugarcane yield in an irrigation scheme
11:05	NL Lecler, DC Mills and JC Smithers	Automated short-furrow irrigation
11:25	W Mahohoma, E Mashonjowa, S Dzikiti, B Chipundu and JR Milford	Assessment of the feasibility of using stalk diameter fluctuations for automated centre pivot irrigation scheduling of sugarcane in Zimbabwe
11:45-12:25	<b>AGRICULTURE SESSION EIGHT: Agriculture Posters II</b>	<b>Chair: Kerry Redshaw</b>
11:45	CO Olweny, K Ngugi, H Nzioki and SM Githiri	Evaluation of smut inoculation techniques in sugarcane seedlings
11:55	BAM Potier, SJ Snyman, R Jacob, D Dheopursad and BI Hockett	Strategies for the alleviation of promoter silencing in sugarcane



# Programme

12:05	R van Antwerpen, R Rhodes and AT Wynne	Economics of trashing: Improvement and sensitivity analysis of this decision support program
12:15	SA McFarlane, T van Antwerpen, P Govender and GF Buchanan	First report on maize streak virus in the South African sugar industry
12:25-13:30	LUNCH in Exhibition hall	
13:30-14:55	<b>AGRICULTURE SESSION NINE: Breeding and Molecular Biology</b> Chair: Maurits van den Berg	
13:30	BI Hockett	A compact history of genetic transformation and its influence on crop development
13:50	S Ramburan	Comparing variety trial and commercial data: trends and relationships for practical use in the South African sugarcane industry
14:15	BAM Potier, C Baburam, R Jacob and BI Hockett	Stem-specific promoters from sorghum and maize for use in sugarcane
14:35	SJ Snyman, GM Meyer, M Banasiak, TL Nicholson, T van Antwerpen, P Naidoo and JD Erasmus	Micropropagation of sugarcane via NovaCane®: preliminary steps in commercial application
14:55-15:25	TEA in Exhibition Hall	



<b>15:25-17:00</b>	<b>AGRICULTURE SESSION TEN: Agronomy</b>		<b>Chair: Sanesh Ramburan</b>
<b>15:25</b>	RA Donaldson, KA Redshaw, R Rhodes and R van Antwerpen	Season effects on productivity of some commercial South African sugarcane cultivars, I: Biomass and Radiation use efficiency	
<b>15:50</b>	RA Donaldson, KA Redshaw, R Rhodes and R van Antwerpen	Season effects on productivity of some commercial South African sugarcane cultivars, II: Trash production	
<b>16:15</b>	FM Ismael, S Seeruttun, C Barbe and A Guangoo	A review of changing cultural practices to improve productivity of sugar cane in Mauritius	
<b>16:40</b>	SD Berry, S Sala and M Jones	Simulated versus actual yields: how much of the difference is due to nematodes?	
<b>19:00</b>	CONGRESS DINNER at ICC - Hall 3BC4AB		