

ISSCT PROCESSING WORKSHOP 2014

Protea Hotel Hluhluwe, South Africa

2014 WORKSHOP THEME - Meeting Performance and Efficiency Targets for the Evaporator and Pan Stations

MONDAY 25 AUGUST 2014 (Day 1) [08h00 to 08h15]			
Welcome and Introduction to ISSCT (Joint Session)			
08h00	(15 minutes)	Rod Steindl	Welcome and introduction to the International Society of Sugar Cane Technologists

MONDAY 25 AUGUST 2014 (Day 1) [08h15 to 17h00]			
Processing Workshop Session 1 - Energy		Chair:	
08h15	(30 minutes)	Arnaud Petit & Olivier Mace	Steam economy in raw sugar factories - The Reunionese experience
08h45	(30 minutes)	Andreas Lehnberger & S.S. Mallikarjun	How two additional falling film evaporators save steam in a cane sugar factory
09h15	(30 minutes)	Sanjay Awasthi	Energy saving - A new trend in the sugar industry
09h45	(45 minutes)	Ah Foon Lau	Capacity building in the African, Caribbean and Pacific countries to optimise energy use in the sugar industry (Including a demonstration of the software "Saccharum")
10:30-11:00	(30 minutes)	TEA	
Processing Workshop Session 2 - Pan Boiling		Chair:	
11h00	(30 minutes)	Peter Rein	Instability in pan boiling
11h30	(30 minutes)	Bruce Moor	Designing continuous pans for low energy consumption
12h00	(30 minutes)	Sanullah Arain	Refined pan design considerations for automation. An experience at Mehran Sugar Mills
12h30	(30 minutes)	Michael Getaz	An evaluation of the evaporative performance of the Xinavane round and horizontal Amassecutite continuous vacuum pans
13:00-14:00	(60 minutes)	LUNCH	
Processing Workshop Session 3 - Pans, Colour Development & Elimination		Chair:	
14h00	(30 minutes)	Ross Broadfoot	Supervisory control of pan and fugal stations - Is it the way of the future
14h30	(30 minutes)	Alexandre Mesmacque & Alain Belotti	Evolution of Fives Cail continuous vacuum pan design and latest performances
15h00	(30 minutes)	Peter Rein	Colour elimination in white refined pan boiling crystallisation
15h30	(30 minutes)	Muhammad Tarique & Sharif Khan	Colour development
16h00	(30 minutes)	Michael Saska, Marcelo Ruiz, Oscar Diez & Silvia Zossi	Industrial and Chemistry Aspects of Color and Colorants in Commercial Sugar
16h30	(30 minutes)	Narendranath Mullapudi	Ejector sulphitation of juice and syrup at a cane sugar plant producing below 50 ICUMSA direct white sugar

TUESDAY 26 AUGUST 2014 (Day 2) [08h15 to 16h00]			
Joint Processing / Engineering Workshop Session 1 on Evaporation		Chair:	
08h15	Interactive Workshop Session (105 minutes)	Ross Broadfoot Paul Schorn Muthumudaliar Muthujothi Boris Morgenroth	Evaporators - Which one? Which duty? An overview of falling film evaporators compared to Robert type evaporators Experiences with falling film tubular and plate evaporators in the cane sugar industry
10h00	(30 minutes)	Peter Wright & Rod Steindl	Improving Robert evaporator vessel designs
10:30-11:00	(30 minutes)	TEA	
Joint Processing / Engineering Workshop Session 2 on Evaporation		Chair:	
11h00	(30 minutes)	Shaista Shah	Circulation in pans and evaporators
11h30	(30 minutes)	Ross Broadfoot & O.P. Thaval	Implications for Robert evaporators with calandrias of different tube dimensions
12h00	(30 minutes)	Adrie van Belzen & Menno Roukema	Transforming evaporators from Robert to falling film plate by retrofit
12h30	(30 minutes)	Natasha Sharma	Optimisation of the evaporator station at Maidstone sugar mill
13:00-14:00	(60 minutes)	LUNCH	
Joint Processing / Engineering Workshop Session 3 on Evaporation		Chair:	
14h00	(30 minutes)	Cesar D. Trujillo, Juan Gabriel Rodriguez, Diego F. Cobo, Adolfo L. Gomez & Nicolas J. Gil	Increasing the evaporator performance in Colombian sugar mills: Long tube rising film Robert evaporator and evaporator energetic performance index
14h30	(30 minutes)	Laurie Watson	Evaporator modelling using open source software
15h00	(30 minutes)	Christian Hessler, Klaus Niepoth & Nigel Jugernath	Advanced heat exchanger and evaporator technology in the cane sugar industry
15h30	(30 minutes)	Dirk Grossmann	Composition, removal and prevention of scales in evaporators of cane sugar factories

ISSCT ENGINEERING WORKSHOP 2014

Protea Hotel Hluhluwe, South Africa

2014 WORKSHOP THEME - *Maintenance Best Practices*

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MONDAY 25 AUGUST 2014 (Day 1)		[08h15 to 16h45]	
Engineering Workshop Session 1 - Material Selection Chair:			
08h15	(30 minutes)	Geoff Kent	A classification scheme for wear and corrosion
08h45	(30 minutes)	Barrie Skinner	Volatile phase corrosion inhibitors - Old product meets the new world
09h15	(30 minutes)	Irma Geyer	Material selection: Change through new manufacturing requirements?
09h45	(30 minutes)	Ross Broadfoot	Experiences with severe corrosion of condensate systems of juice heaters and evaporators
10:15-10:45	(30 minutes)	TEA	
Engineering Workshop Session 2 - Design for Low Maintenance / Preventive Maintenance Chair:			
10h45	(30 minutes)	Boris Morgenroth	Plant design for low maintenance
11h15	(30 minutes)	Schalk van der Merwe & Philip du Toit	Boiler performance evaluation, using computational fluid dynamics and state-of-the-art in situ measurements
11h45	(30 minutes)	Irma Geyer	Innovations of centrifugal design for low maintenance and long service life
12h15	(30 minutes)	Diego Cobo, Adolfo Gomez, Julian Lucuara & Nicolás Gil	From failure analysis to reliability in sugar mills
12h45	(30 minutes)	Menno Roukema	Experiences with TPM at Puttershoek
13:15-14:15	(60 minutes)	LUNCH	
Engineering Workshop Session 3 - Maintenance Management Chair:			
14h15	(30 minutes)	Geoff Kent	The effect of downtime on required plant capacity
14h45	(30 minutes)	Morne Bester	Development of an asset care strategy at Tongaat Hulett
15h15	(30 minutes)	Diego Cobo, Adolfo Gomez, Santiago Orduz & Nicolás Gil	Maintenance management system diagnosis at Colombian sugar industry: A first approach
15h45	(60 minutes)	Boris Morgenroth	Maintenance & plant reliability- Interactive session

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08h15	<i>Interactive Workshop Session (105 minutes)</i>	Ross Broadfoot Paul Schorn Muthumudaliar Muthujothi Boris Morgenroth	Evaporators - Which one? Which duty? An overview of falling film evaporators compared to Robert type evaporators Experiences with falling film tubular and plate evaporators in the cane sugar industry
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