



43rd Annual Conference

Futureproofing a Resilient Industry

Mackay Entertainment and Convention Centre
Tuesday 19th April - Friday 22nd April 2022

Conference Program

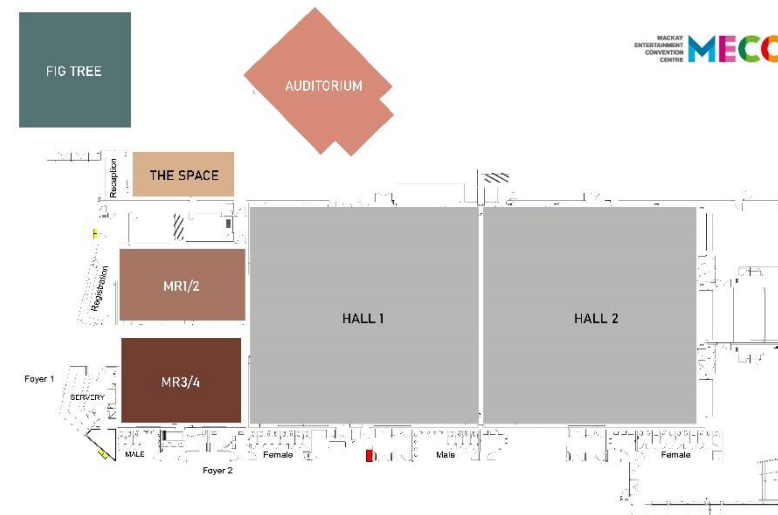


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TUESDAY 19TH APRIL 2022

TIME	VENUE	AGENDA
17:30-19:30	Fig Tree	Welcome Drinks

WEDNESDAY 20TH APRIL 2022

TIME	AUDITORIUM	MR1/2	THE SPACE
09:00-10:30	Opening Ceremony: Jannik Olejas, CEO, MSL & Graham Bonnett, CSIRO		
10:30-11:00	Break		
11:00-11:30	Emerging opportunities for Australian sugar using blockchain technology – Kealley et al.		
11:30-12:00	Maximising the benefits of NIR rapid analysis for sugarcane mill laboratories – Simpson, Staunton		
12:00-12:30	Managing the impacts of the Maillard reaction on the pan and crystallizer stations – Broadfoot		
12:30-13:30	Lunch		
13:30-14:00		Australian Sugar Industry Scholarship and bursary program – King	
14:00-14:30		Characterisation of physical properties of prepared cane from soft-cane varieties – Plaza et al.	
14:30-15:00		Automation parameters for milling adjustments during processing of soft canes – Kent et al.	
15:00-15:30	Break		
15:30-16:00		Posters (5 minutes each): <ul style="list-style-type: none"> West – Functional Safety Auld – Vigilance and man-down protection review for locomotives Auld – Locomotive Alarming Strategy and HMI development Greenberg – Migration to a digital voice radio network for the cane rail network Johnston – Standardisation in Wilmar Sugar 	Profitability and environmental implications of practice changes driven by soil health in Central and Northern Queensland – Connolly et al.
16:00-16:30		Posters (5 minutes each): <ul style="list-style-type: none"> Kenny – Managing Legacy Control Systems Hickey – Managing the risk of project equipment deliveries in the EIC area Babu et al. – Brix control for high-grade pan operations Harrison et al. – Dosing with ferrous chloride to control effluent odour Gilbert – Qualitative assessment of the occurrence of included crystal colour 	Comparative efficacy and environmental profile of the newly registered herbicide Palmero TX - Fillols
16:30-17:00		Opportunities for young professionals	
17:30-18:30	Happy Hour		

THURSDAY 21 ST APRIL 2022			
TIME	MR1/2	MR3/4	THE SPACE
08:00-08:30	Assessment of increased tube life in boiler convection banks through commercially available tube coatings – Plaza et al.	Forward osmosis for the concentration of sugarcane juice – Rackemann et al.	Crop response to fertilizer nitrogen on a sodic soil in the Central Region – Salter et al.
08:30-09:00	Upgrade of the boiler station at South Johnstone Mill – O'Brien et al.	Experiences with pre-evaporators at Racecourse Mill – Lavarack et al.	Refining nitrogen management under different conditions: economic results from preliminary grower-demonstration trials – Pfumayaramba et al.
09:00-09:30	Wilmar's experience with hexavalent chromium – Masotti	Configuring quintuple evaporator stations to provide high levels of steam efficiency in Australian factories – Broadfoot	Evaluation on enhanced-efficiency fertilisers in Queensland sugarcane – Connellan
09:30-10:00	A factory trial to evaluate different designs of shredder-hammer tips – Di Mauro	Assessing the suitability of quadruple, quintuple and sextuple Robert evaporator sets for high levels of steam efficiency in Australian factories – Broadfoot	Stoller in sugarcane plant root development – Steer (Exhibitor)
10:00-10:30	Break		
10:30-11:00	Exhibitors (10 minutes each): <ul style="list-style-type: none"> Conveyor skirting and transfer – Storer Can I improve the efficiency of my batch centrifuge when it is time to replace the basket? – Schofield 		Improving delivery from SRA Plant Breeding – Eglinton et al.
11:00-11:30	Design of an automated electro-mechanical shredder-grid-door positioner for online setting adjustments – Plaza et al.	Heat-transfer performance of batch vacuum pans in the Australian sugar industry – Broadfoot, Ashtiani Abdi	Opticane: An irrigation and weather support tool – Sexton et al.
11:30-12:00	Designing a device to assist shredder hammer-grid bar clearance tuning – Graham, Rozis	Assessing the suitability of operating high grade batch pans in Australian factories on low pressure vapour – Broadfoot, Ashtiani Abdi	Preliminary evaluation of real-time sensing of harvester losses by machine vision – McCarthy
12:00-12:30	Manufacturing section meeting	Administration section meeting	Agricultural section meeting
12:30-13:30	Lunch and Posters Viewing		
13:30-14:00	Exhibitors (10 minutes each): <ul style="list-style-type: none"> The growing need for automation in the sugar industry – Gulinelli Australian Sugar Industry Training Learning Management System – King Expertise and industry experience from the SRI/QUT team - Green 	Investigation of the corrosivity of final evaporator condensate at four Australian sugar factories – Arzaghi et al.	Sentinels without borders: How a global pandemic inspired the diversification of iMapPESTS's mobile surveillance suite – Johnson et al.
14:00-14:30	The next-generation cane-fibre analyser – Kent et al.	Assessment of pH control strategies to minimise sucrose losses during juice evaporation in raw sugar manufacture – Marasinghege et al	Modernising sugarcane diagnostics – Thompson
14:30-15:00	Reducing boiler maintenance costs with improved materials for air-heater tubes – Mann et al	Preliminary study of the impacts of constituents of sugarcane juice on sucrose degradation and pH drop during evaporation – Marasinghege et al.	Driving productivity and disease prevention in sugarcane growth with carbon nanodots – Li et al.
15:00-15:30	Break		
15:30-16:00	Efficacy of FDA-approved biocides to inhibit microbial degradation of sucrose – Shi et al	Modelling the impact of a falling-film evaporator in final-effect position on factory operation and performance – Thaval	Survey of plant-parasitic and free-living nematodes in New South Wales cane-growing areas – Bhuiyan et al.
16:00-16:30	Navigating the mist surrounding water usage in sugar factories – Lavarack		Tully Variety Management Group update – Shannon et al.
16:30-17:30	Annual General Meeting		
18:00-21:00	Gourmet BBQ Dinner @ Fig Tree		

Venue
Legends:

FIG TREE

AUDITORIUM

MR1/2

MR3/4

THE SPACE

IEE HALLS 1&2

Note: Each activity is colored according to the venue they are being held.