

Advancing Milling & Nutrition Conference

in conjunction with Recent Advances in Animal Nutrition, Australasian Society of Equine Science and Nutrition Society of **ADVANCING MILLING & NUTRITION**
Australia

13-14 May 2025,

Crown Promenade, Melbourne, Australia



13-14 MAY 2025

DRAFT PROGRAM

Tuesday 13 th May 2025						
0830-1030	Plenary 1 – Challenges and Opportunities			Chair: Alex Turney		
0830-0840	Welcome					
0840-0845	Alex Turney - AMN Program Chair - Overview					
0845 – 0915	Robert van Barneveld - <i>SunPork</i> Protein production into the future - challenges and opportunities					
0915-0945	Geoffrey Annison- <i>Industry Consultant</i> The crucial connection – An exploration of the way consumer interactions are currently driving nutritional demands					
0945-1015	Constance Cullman - <i>President and CEO - American Feed Industry Association</i> Future demands of the feed industry					
1015-1030	Panel discussion					
1030 – 1100	Morning Tea					
1100 – 1300	Plenary 2 – Understanding ingredients and what needs to change			Chair: Neil Gannon		
1100-1130	Gene Pesti – <i>University of Georgia, USA</i> Measurement of the nutrient and energy contents of feedstuffs: Adoption of the latest approaches to analysis is long overdue					
1130-1200	Wayne Bryden – <i>University of Queensland</i> Mycotoxins – a Five Decade Journey Across Feed and Food in Australia					
1200-1230	Ralph Ward – <i>Cumberland Valley, USA</i> What's new in technology and feeding the world					
1230-1300	Panel discussion					
1300 – 1400	LUNCH					
1400 – 1530	Concurrent Session 1					
	RAAN-A & Milling & Nutrition	P1&2	Equine	P3	Flour	M2
	NUTRITION MEETS ENVIRONMENT Chair: Fran Cowley		NUTRITION Chair: Peter Huntington		PRACTICAL SESSION	
1400-1410	Richard Eckard - <i>University of Melbourne</i> Accounting for carbon in livestock diets		Joe Pagan - <i>Kentucky Equine Research</i> The role of omega-3 and omega-6 polyunsaturated fatty acids in equine nutrition: A new perspective		Mat Rees – <i>AEGIC</i> PEKAR Testing Demonstration with audience participation	
1410-1420						
1420-1430	Mathew Harrison - <i>Tasmanian Institute of Agriculture:</i>					

** Please note that this is a draft program and subject to change 17/02/2025**

1430-1440	The impacts on whole-farm net carbon from changing the grazing feedbase: natural-, improved-, and silvo-pastures	Erica Gee - Massey University Selenium status of horses in New Zealand				
1440-1450	Stephen Wiedemann - Integrity Ag Improving the environmental performance in the animal industry through lifecycle assessments	Mark Barnett - MTB Equine Consultancy Services Feeding industrial hemp flour to horses results in zero detectable levels of Tetrahydrocannabinol (THC) and Cannabidiol (CBD)				
1450-1500		Nerida McGilchrist - Equilize Horse Nutrition Pty Ltd Effect of pelleting, cubing and chaffing on rate of lucerne forage intake				
1500-1510	Panel Q&A	Ryon Springer - Kentucky Equine Research Modelling neutral detergent soluble crude protein in feedstuffs and its implications for crude protein availability in the horse		Philipp Fritschi - Buhler AG Sustainable value stream creation		
1510-1520		Pat Harris				
1520-1530		TBC				
1530-1600	Afternoon Tea					
1600-1730	Concurrent Session 2 -					
	RAAN-A	P1	Milling, Nutrition & Flour	P2	Equine	P3
			Ingredient management and quality Chair - Sid Jain		Gut Microbiome, Health and Development Chair - Chris Rogers	
1600-1610	Shiva Greenhalgh - Sydney Animal Nutrition Recent advances in managing obesity in companion animals		Thomas R Thomas - Delst A new concept in tempering		Danielle Fitzgerald - University of Queensland The symbiotic relationship between the horse and its gastrointestinal microbiome	
1610-1620					Mark Barnett - MTB Equine Consultancy Services The role of microbial metabolites in the health, wellbeing, and performance of the horse	
1620-1630	TBC		Claus Holm - FOSS A novel automated multiplex solution for analysis of mycotoxins in grains		Holly Mills - University of Adelaide Equine nutraceutical buffers gastric acid in an in vitro model over an 8-hour period	
1630-1640			Neal Cass - Hydronix Ltd The importance of moisture control and measurement throughout the feed and flour milling process.		Anne Beasley - University of Queensland Beyond chemical control of equine internal parasites - the strategy toolbox	
1640-1650		Panel Q&A		Jeffrey Marco Wee - Kemin Animal Nutrition and Health Improving Pellet Milling Efficiency Through Preconditioning		
1650-1700	Contributed Papers		George Boloutis - Gordyn & Palmer Digitilisation in milling		Elisabeth Charles - International Animal Health Products Safety of a biological control agent targeting gastrointestinal nematodes as a feed additive for horses.	

1700-1710		Kin Ken Chew – <i>Kemin Animal Nutrition and Health</i> Harnessing Real-Time Sensor Technology and Surfactant Science for Precision Milling	Simon Bailey TBC
1710-1720			Joe Pagan - <i>Kentucky Equine Research</i> Factors affecting body size and the incidence of skeletal disease in Thoroughbred foals
1720-1730	2 x Poster Pitches (4-5)		
1745-1945	Conference Reception Tonic Bar Sponsored by LGPM		

Wednesday 14th May 2025								
0830-1030	Concurrent Session 3							
	RAAN-A	P1	Milling & Nutrition	P2	Equine	P3	Flour	M2
			Innovation and Technology Chair – Megan McKenzie		Horses, Society and Welfare Chair - Melody de Laat		Advances and Optimisation Chair – Paul Martin	
0830-0840	Luisa Olmo - <i>NSW DPIRD</i> The sources and impact of microplastic intake on livestock and poultry performance and meat products: A review		Hugh Goold - <i>NSW DPI Chief Scientist Unit</i> CRISPR technology in agriculture		Jaz Skinner - <i>University of Southern Queensland</i> Changing role of horses in society		Olivier Latorre - <i>Premier Tech</i> Packaging innovations for flour	
0840-0850					Chris Rogers - <i>Massey University</i> Responding to a changing environmental regulatory framework: The New Zealand Equine industry experience.			
0850-0900	Chris Carter - <i>University of Tasmania</i> Feeding and nutrition in suboptimal aquatic environments		Phat van Nguyen - <i>Organic Fumigation</i> Non-Chemical Pest Control and Storage – Post harvest solutions		Lauren Hemsworth - <i>University of Melbourne</i> Recreational horse welfare		Philipp Fritschi - <i>Buhler</i> High precision milling	
0900-0910					Elizabeth Owens Evolution of horse welfare in the FEI			
0910-0920	Panel Q&A		Olivier Latorre - <i>Premier Tech</i> Packaging Innovations for powdery, granular and flaky ingredients. Sponsor presentation		Ken Hinchcliff Emerging themes in equine exercise physiology and sports medicine		Mat Rees - <i>AEGIC</i> Optimal settings for Australian Grain	
0920-0930	Contributed Papers		David Cadogan - <i>Feedworks</i> Recycling / value add: The novel application of enzymes for effective use of co-products and by-products					
0930-0940			Annabel Mactier - <i>Grain Growers Ltd</i> The future of grain freight in 2045	Warwick Bayly Technology to protect horse welfare				
0940-0950			Doug Pearson - <i>Feedworks</i> Insylo – the smart way to monitor your silos					
							Sergio De Pasquale – <i>OMAS - Allegiant</i> From Vision to Reality: The Journey of Building Moulins	

0950-1000	Poster Pitches	Christophe Eigenmann - Buhler AG High precision milling for feed manufacture Sponsor presentation	Kylie Legg - Massey University Relationship between jockey experience and head displacement whilst riding Thoroughbred racehorses	Soufflet's 900TPD Flexible Flour Mill with Omas
1000-1030	Morning Tea			
1030-1200	Concurrent Session 4			
	RAAN-A	P1	Milling & Nutrition	P2
			Equine	P3
			Flour	M2
			Operational Management & Decision Making Chair - David Bray	Thoroughbred Racing and Welfare Chair - Wayne Bryden
				Advances and Optimisation Chair – Sid Jain
1030-1040	David Innes - University of New England Metabolic and biochemical regulation of feed intake in ruminants	Bronwyn Von Hellens – FeedSafe & FAMIqs Overcoming the most common pain points in your system	Chris Whitton Limb injury prevention in racehorses – what have we learned from research?	Dimitrios Argyriou – Grainar, GREECE Flour Performance in Modern Mills through Design of Experiments (DOE): A Case Study. Video session
1040-1050				
1050-1100	Rodrigo Albornoza - Dairy Australia Future forage priorities for the Australian dairy industry	Brad Tressider – Tressider Insurance Technical insurance risk rating – what you need to know	Michaela Gibson - Massey University Race day fatality in the 2023/24 New Zealand Thoroughbred racing season and the role of the equine mortality review panel	Hasan Duman - Satake / Henry Simon / Alapala Next Generation Milling System - Implementing the Jidoka (Intelligent Automation) Approach into Flour Milling
1100-1110				
1110-1120	Panel Q&A	Alex Townsend – Choice Energy The data behind making energy decisions	Laura Nath Sudden death in Thoroughbred racehorses: can we predict or prevent it?	
1120-1130	Contributed Papers	Charlie Rickard Bell – APRIL Nutritional traceability	Ryon Springer - Kentucky Equine Research Effect of different cooling methods on muscle temperature recovery in exercised two-year-old Thoroughbred racehorses	Roger Cook – Satake The principles and methods for particle separation
1130-1140				
1140-1150		TBC - Bendigo Bank Agribusiness What are the bank's ESG requirements when lending money		Kavish Naidoo - Mauri - GWF Milling Techniques and demonstrations for Technical Millers Discussion / Part 1
1150-1200	Poster Pitches		Lily Anderson - Massey University Life after racing: descriptors of rehomed Thoroughbred racehorses in New Zealand	
1200-1300	Lunch			

	Plenary 3 – Metabolic drivers impacting nutritional principles		
1300-1500	RAAN-A, Equine & Milling & Nutrition <i>Chair – Wayne Bryden</i>	P1&2	Flour M2
1300-1330	Ian Lean – Scibus Enhancing our understanding of metabolic disease in ruminants		Kavish Naidoo Milling Techniques and demonstrations for technical millers Practical / Part 2
1330-1400	Jessica Biesiekierski – The University of Melbourne Navigating the Complexities of Food Intolerances		
1400-1420	Melody de Laat – Queensland University of Technology Nutrition and the gastrointestinal tract: key factors driving metabolic dysfunction in horses.		Tony Smith - Baking Association Australia Supporting a better baking industry
1420-1430			Mark Dennien - Australian Society of Baking Challenges for bakers
1430-1440	Panel session		Chris Whiteway / Mat Rees - AEGIC Training videos / eLearning ATMA flour milling award trip
1440-1500			
1500-1530	Afternoon Tea		
1530 – 1700	Plenary 4 – Future Focus <i>Chair – Nick Reid</i>	P1&2	Flour M2 <i>Chair – Bernard O'Brien</i>
1530 - 1600	Tom Williams – Number 8 Bio Bioengineering for animal nutrition		Steve Faerber – UK Flour Millers Advances in Flour Miller Training
1600-1630	John Russell – Tegel Foods Ltd (International NZ) Feeding Innovation: The Use and Implementation of AI in Nutrition & Milling		
1630-1700	Brad Ridoutt – CSIRO Animal-sourced foods in a healthy sustainable diet – what is the Australian evidence?		Industry Roundtable - How flour milling has advanced
1700-1720	Panel Discussion		
1720-1730	Winner of the 2025 AMN Innovation Award Announced Conference Summary & Close		