



Conference Program

Wednesday 9 th June 2021	
12.00-14.00	Registration Open
13.00	Lunch
14.00	Welcome & Opening Address Dr Fran Cowley
14.15 – 15.30	Session 1: Evolution of Recent Advances Chair: Dr Fran Cowley Sponsored by: UNE
14.15	Annison and Leng Oration: Recent Advances in Animal Nutrition - Australia – the symposium’s first 50 years Emeritus Prof John Nolan, University of New England
15.00	Panel Discussion
15.30 – 16.00	Afternoon Tea and Trade Exhibition
16.00 – 17.30	Session 2: Implications of Human Nutrition for Animal Nutrition Chair: Prof Frank Dunshea Sponsored by: FeedWorks
16.00	McClymont Rural Science Review: Lessons for animal nutrition and production from the Australian Academy of Science Decadal Plan for the Science of Nutrition. Professor Mike Gidley, University of Queensland
16.30	Qualitative assessment of value in Australian pork across cultures. Evan Bittner, University of Melbourne
17.00	Panel Discussion
17.30	Drinks in Trade Exhibition and Poster Session
	<ol style="list-style-type: none"> 1 The protein degradation rate and the effect of steam pelleting of grains on cattle. <i>Liyi Pan, University of Queensland</i> 2 An optimal dosage of butyric acid improves broiler growth performance. <i>Yann Lever, Global Nutrition International</i> 3 Effects of warming and drought on nutritional quality of two temperate pasture species. <i>Karen Catunda, Western Sydney University</i> 4 Amelioration of aflatoxicosis in broilers by ginger (<i>Zingiber officinale</i>). <i>Ryan Stevens, University of Queensland</i> 5 Effect of microencapsulated zinc on the growth performance of weaned piglets. <i>Ludovic Lahaye, Jefe Nutrition Inc.</i> 6 Determining molasses-urea block intake of beef heifers in pens from video recording. <i>Liyi Pan, University of Queensland</i> 7 Intestinal viscosity changes as broilers age when fed a wheat based diet. <i>Lynette Hilly, Queensland University of Technology</i> 8 Digestibility of wheat by broilers fed novel <i>Bacillus</i> probiotics. <i>Lynette Hilly, Queensland University of Technology</i> 9 The impact of an agglomerate of dietary sodium diformate and monolaurate on the faecal microbiome of lactating sows.



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Christine Sydenham, Apiam Animal Health

10 Application of novel multi-species probiotic strains in broiler chicken diets: effect on performance, gut morphology, and microbial profile.

Jacoba I Madigan-Stretton, Bioproton

11 Is the equine gut colonised in utero?

Kirsty Mols, University of Queensland

12 Buffered formic acid and a monoglyceride blend coordinately alleviate subclinical necrotic enteritis impact in broiler chickens.

Kosar Gharib-Naseri, University of New England

13 Protein digestibility of feather meal by broilers and effect of protease.

Yiman Sun, The University of Queensland

14 Effect of thermochemical pretreatment on the dynamics of bacterial colonisation of sugarcane bagasse in bovine rumen

Mahsa Abbasabadi, Queensland University of Technology

15 Optimising the use of leucaena and energy sources increases liveweight gain of male Bali cattle

Dahlanuddin, University of Mataram, Indonesia

16 The effect of a Bacillus-based probiotics on forage in-vitro dry matter, NDF and ADF digestibility

Liyi Pan, University of Queensland

18.30 - 20.30

Welcome networking function

Thursday 10th June 2021

08.30 – 17.00	Registrations Open	
09.00 – 11.05	Session 3: Contributed Papers	Chair: Prof Rob van Barneveld Sponsored by: USSEC
09.00	Full Fat Soybean as Layer feed: Research Challenges. Budi Tangendjaja, U.S Soybean Export Council (USSEC)	
09.20	Reusing food waste for aquaculture feed. Dr Ha Truong, CSIRO	
09.35	Towards the use of food wastes as a complete feed for the Australian poultry industry. Hiep Dao, University of New England	
09.50	Probiotic combinations with butyrate and feed enzymes and broiler performance. Tonghe Sun, University of Queensland	
10.05	The effects of lactobacillus-based probiotics on calves - productivity and gut microbiome. John Alawneh, Murdoch University	
10.20	Maize and wheat treated with a starch binding agent (Bioprotect®) can replace the wheat component in the diet of Merino lambs to ameliorate the effect of heat stress. Pragna Prathap, The University of Melbourne	
10.35	Microbial protein production for livestock feed using sugarcane biorefinery substrates. Zeynab Amini, Queensland University of Technology	
10.50	Multienzyme Super-Dosing in Broiler Chicken Diets: The Implications for Gut Morphology, Microbial Profile, Nutrient Digestibility, and Bone Mineralization. Jacoba I Madigan-Stretton, Bioproton	
11.05 – 11.30	Morning Tea and Trade Exhibition	



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11.30 – 13.00	Session 4. Creating New Feed Ingredient	Chair: Prof Bob Swick Sponsored by: Olsson
11.30	Food waste to animal feed: Opportunities and challenges. Dr Valeria Torok, SARDI	
12.00	Platforms to accelerate biomanufacturing of enzyme and probiotic animal feed supplements: discovery considerations and manufacturing implications. Professor Rob Speight, Queensland University of Technology	
12.30	Panel Discussion	
13.00 – 14.00	Lunch and Trade Exhibition	
14.00 – 16.30	Session 5. Gastrointestinal Homeostasis and Health	Chair: Prof Wayne Bryden Sponsored by: APRIL
14.00	Cumming-Farrell Oration: Probiotics and gut health: linking gut homeostasis and poultry productivity. Dr Shaniko Shini, University of Queensland	
14.30	Recent advances in the use of plant phytochemicals to manage oxidative stress in the gut in poultry and pig. Dr Jeremy Cottrell, University of Melbourne	
15.00	Dietary amino acids, gut sensing, and feed intake regulation in pigs. Maximiliano Müller, University of Queensland	
15.30	Comparison of gastrointestinal transit times in stabled Thoroughbred horses during abrupt dietary transition between freshly cut pasture and three conserved forage-based diets. Professor Chris Rogers, Massey University	
16.00	Panel Discussion	
16.30	Afternoon Tea and End of Day 2	
18.30 – 21.00	Conference Dinner	

Friday 11th June 2021

08.00 – 13.00	Registrations Open	
08.30 – 09.45	Session 6: Contributed Papers	Chair: Dr Amy Moss Sponsored by: BASF
08.30	Responses of broilers reared as single or mixed sex to low protein diets and the variations. Ashley England, The University of New England	
08.45	The effect of dietary energy density and supplemental rumen undegradable protein on visceral size & fat deposition in growing lambs. Dr Holland Dougherty, University of New England / NSW DPI	
09.00	How does fasting heat production vary relative to liveweight in sheep and cattle? Dr Holland Dougherty, University of New England / NSW DPI	
09.15	Crossbred lambs offered individual free-choice selection of nitrate, salts, tannin and oxalate supplemented feeds increase voluntary feed intake with reduced enteric methane yield. Prof Roger Hegarty, University of New England	



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09.30	Proteomic evaluation of the vitamin K status of horses: Application of the Carboxylated Analysis by Ceramic Hydroxyapatite Enrichment (CACHE) method to the plasma of vitamin K supplemented foals. Jazmine Skinner, University of Southern Queensland
09.45 – 10.15	<i>Morning Tea and Trade Exhibition</i>
10.15 – 13.00	Session 7: Nutrition, Reproduction and Methane Chair: Prof Roger Hegarty Sponsored by: JEFO
10.15	Does the relationship between sow body composition change in lactation and rebreeding success still exist? Dr Kate Plush, SunPork Group
10.45	Recent advances in bull fertility: consequences of pre- and post-weaning nutritional intervention. Matt Callaghan, University of Adelaide and Ridley
11.15	Harnessing plant bioactivity for enteric methane abatement strategies in Australia. Dr Zoey Durmic, University of Melbourne
11.45	Methane mitigation strategies for livestock industries in NSW. Dr Amelia deAlmeida , NSW Agriculture & University of New England
12.15	Panel discussion
12.45	Closing and Student Awards Dr Fran Cowley
13.00	Lunch