



# RAAN

Gold Coast 9<sup>th</sup> - 11<sup>th</sup> June 2021

CONFERENCE AUSTRALIA

## Draft Conference Program

Wednesday 9 <sup>th</sup> June 2021	
12.00-14.00	<b>Registration Open</b>
13.00	<b>Lunch</b>
14.00	Welcome <b>Dr Fran Cowley</b>
14.05	Opening Address
14.15 – 15.30	<b>Session 1: Evolution of Recent Advances</b> <span style="float: right;"><b>Chair: Dr Fran Cowley</b></span>
14.15	<b>Annison and Leng Oration:</b> Recent Advances in Animal Nutrition - Australia – the symposium’s first 50 years <b>Emeritus Prof John Nolan, University of New England</b>
15.00	Panel Discussion
15.30 – 16.00	<b>Afternoon Tea and Trade Exhibition</b>
16.00 – 17.30	<b>Session 2: Implications of Human Nutrition for Animal Nutrition</b> <span style="float: right;"><b>Chair: Prof Frank Dunshea</b></span>
16.00	<b>McClymont Rural Science Review:</b> Lessons for animal nutrition and production from the Australian Academy of Science Decadal Plan for the Science of Nutrition. <b>Professor Mike Gidley, University of Queensland</b>
16.30	Qualitative assessment of value in Australian pork across cultures. <b>Evan Bittner, University of Melbourne</b>
17.00	Panel Discussion
17.30	<b>Drinks in Trade Exhibition</b>
18.30 - 20.30	<b>Welcome networking barbeque</b>
Thursday 10th June 2021	
08.30 – 09.00	<b>Registrations Open</b>
09.00 – 11.05	<b>Session 3: Contributed Papers</b> <span style="float: right;"><b>Chair: TBC</b></span>
09.00	Full Fat Soybean as Layer feed: Research Challenges. <b>Budi Tangendjaja, U.S Soybean Export Council (USSEC)</b>
09.20	Reusing food waste for aquaculture feed. <b>Dr Ha Truong, CSIRO</b>
09.35	Towards the use of food wastes as a complete feed for the Australian poultry industry. <b>Hiep Dao, University of New England</b>
09.50	Probiotic combinations with butyrate and feed enzymes and broiler performance. <b>Tonghe Sun, University of Queensland</b>



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10.05	The effects of lactobacillus-based probiotics on calves - productivity and gut microbiome. <b>John Alawneh, Terragen Biotech</b>
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. <b>Pragna Prathap, The University of Melbourne</b>
10.35	Microbial protein production for livestock feed using sugarcane biorefinery substrates. <b>Zeynab Amini, Queensland University of Technology</b>
10.50	Multienzyme Super-Dosing in Broiler Chicken Diets: The Implications for Gut Morphology, Microbial Profile, Nutrient Digestibility, and Bone Mineralization. <b>Jacoba I Madigan-Stretton, Bioproton</b>
<b>11.05 – 11.30</b>	<b>Morning Tea and Trade Exhibition</b>
<b>11.30 - 1300</b>	<b>Session 4. Creating New Feed Ingredient</b> <span style="float: right;"><b>Chair: Professor Bob Swick</b></span>
11.30	Food waste to animal feed: Opportunities and challenges. <b>Dr Valeria Torok, SARDI</b>
12.00	Recent advances in utilising abattoir waste for additional value animal feed. <b>Professor Rob Speight, Queensland University of Technology</b>
12.30	Panel Discussion
<b>13.00 – 14.00</b>	<b>Lunch and Trade Exhibition</b>
<b>14.00 – 16.30</b>	<b>Session 5. Gastrointestinal Homeostasis and Health</b> <span style="float: right;"><b>Chair: Professor Wayne Bryden</b></span>
14.00	<b>Cumming-Farrell Oration:</b> Probiotics and gut health: linking gut homeostasis and poultry productivity. <b>Dr Shaniko Shini, University of Queensland</b>
14.30	Recent advances in the use of plant phytochemicals to manage oxidative stress in the gut in poultry and pig. <b>Dr Jeremy Cottrell, University of Melbourne</b>
15.00	Dietary amino acids, gut sensing, and feed intake regulation in pigs. <b>Maximiliano Müller, University of Queensland</b>
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. <b>Professor Chris Rogers, Massey University</b>
16.00	Panel Discussion
<b>16.30 – 17.30</b>	<b>Poster session and trade exhibition</b>
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 Luanna, 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.



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*Ludovic Lahaye, Jefe Nutrition Inc.*

6 Determining molasses-urea block intake of beef heifers in pens from video recording.

*Liyi Pan, University of Queensland*

7 Intestinal viscosity changes as broilers age when fed a wheat based diet.

*Lynette Hilly, Queensland University of Technology*

8 Digestibility of wheat by broilers fed novel Bacillus probiotics.

*Lynette Hilly, Queensland University of Technology*

9 The impact of an agglomerate of dietary sodium diformate and monolaurate on the faecal microbiome of lactating sows.

*Hugo Dunlop, 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*

<b>18.30 – 21.00</b>	<b>Gala Conference Dinner</b>
<b>Friday 11th June 2021</b>	
<b>08.00 – 08.30</b>	<b>Registrations Open</b>
<b>08.30 – 09.45</b>	<b>Session 6: Contributed Papers</b> <span style="float: right;"><b>Chair: TBC</b></span>
08.30	Responses of broilers reared as single or mixed sex to low protein diets and the variations. <b>Ashley England, The University of New England</b>
08.45	The effect of dietary energy density and supplemental rumen undegradable protein on visceral size & fat deposition in growing lambs. <b>Dr Holland Dougherty, University of New England / NSW DPI</b>
09.00	How does fasting heat production vary relative to liveweight in sheep and cattle? <b>Dr Holland Dougherty, University of New England / NSW DPI</b>
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. <b>Katherine Smith, University of New England</b>
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. <b>Jazmine Skinner, University of Southern Queensland</b>
<b>09.45 – 10.15</b>	<b>Morning Tea and Trade Exhibition</b>



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<b>10.15 – 13.00</b>	<b>Session 7: Nutrition, Reproduction and Methane</b>	<b>Chair: Professor Roger Hegarty</b>
10.15	Recent advances in genetic and nutritional manipulation of body composition in lactating and dry sows. <b>Tracy Muller, Murdoch University</b>	
10.45	Recent advances in bull fertility: consequences of pre- and post-weaning nutritional intervention. <b>Matt Callaghan, University of Adelaide and Ridley</b>	
11.15	Harnessing plant bioactivity for enteric methane abatement strategies in Australia. <b>Dr Zoe Durmic, Murdoch University</b>	
11.45	Methane mitigation strategies for livestock industries in NSW. <b>Dr Almeida Amelia, NSW Agriculture &amp; University of New England</b>	
12.15	Panel discussion	
12.45	<b>Closing and Student Awards</b>	<b>Dr Fran Cowley</b>
<b>13.00</b>	<b>Lunch</b>	