

## Wednesday October 25

### Session 1

Chair: Professor Roger Hegarty

14:00 **Welcome** – Professor Bob Swick

14:05 **Opening address** – Professor Aron Murphy (UNE)

14:15 ***Rural Science Distinguished Keynote Speaker***

#### **Signalling from the gut lumen**

Professor John Furness (University of Melbourne)

14:45 ***Annison and Leng Oration***

#### **Biofilm compartmentalisation of the rumen microbiome, fermentation and the degradation of dietary toxins**

Professor Ron Leng, AO (UNE)

15:15 **Mitochondrial metabolism: a key driver of energy utilisation and product quality?**

Dr Nick Hudson (UQ)

15:45 Tea break

16:15 **Meat of the future: How can global demand for protein be satisfied?**

Dr Sarah Bonny (University of Tasmania)

16:45 **Session 1 Panel discussion**

19:30 Meet and Greet BBQ function at UNE Stro

## Thursday October 26

### Session 2

Chair: Dr Fran Cowley

9:00 **Specific effects of adding common dietary fatty acids on subsequent yield and concentration of milk fat and fatty acid classes by lactating dairy cattle**

Professor Louis Armentano (University of Wisconsin)

9:30 **Recent advances in the protein and energy supply and requirements of ruminants**

Professor Luis Tedeschi (Texas A & M University)

10:00 **Starch and protein digestive dynamics in broiler chickens fed low-protein diets supplemented with crystalline amino acids**

Dr Sonia Liu (University of Sydney)

10:30 **ASKBILL as a web based program to enhance sheep wellbeing and productivity: Animal growth model**

Dr Lewis Kahn (UNE)

11:00 Tea break

### Session 3

Chair: Dr Nerida Richards

11:30 **Opremazole and its impact on mineral absorption in horses**

Professor Brian Nielsen (Michigan State University)

12:00 **Managing gut health without reliance on antimicrobials in poultry**

Dr Natalie Morgan (UNE)

12:30 **Sessions 2 and 3 Panel discussion**

13:00 Lunch

### Session 4

14:00 **Short presentations**

15:20 Tea break

15:40 **Short presentations**

17:00 **Informal poster viewing session with cheese and wine**

19:30 Conference Dinner at Mary White College

## Friday October 27

### Session 5

Chair: Professor Frank Dunshea

9:00 **Utilizing mobilization of body reserves to improve the management of phosphorus nutrition of breeder cows**

Dr Rob Dixon (Queensland Alliance for Agriculture and Food Innovation)

9:30 **Investigating the physiology of phosphorus deficiency in beef breeder cows reveals new candidate markers of phosphorus status**

Dr Stephen Anderson (UQ)

10:00 **Calcium and phosphorus metabolism and nutrition of poultry: Are modern diets formulated in excess?**

Dr Xiuhua Li (UQ)

10:30 Tea break

### Session 6

Chair: Professor Rob van Barneveld

11:00 **Recent findings regarding calcium and phytase in poultry nutrition**

Dr Mike Bedford (AB Vista)

11:30 **Procedures for determining digestibility of amino acids, lipids, starch, fibre, phosphorus and calcium in feed ingredients fed to pigs**

Professor Hans Stein (University of Illinois)

12:00 **Closing address**

12:15 Lunch