Welcome to Recent Advances in Animal Nutrition – Australia (RAAN-A), 2019. This year the focus is on availability of protein in the next decade. Meeting the protein requirements of various livestock species will gain in importance, as demands for meat increase with a growing and more affluent society. In the 2 years since the last conference, local Australian industry has been hit with a severe drought, requiring transhipments of feed grains within Australia and a heightened reliance on imports of foreign sourced protein meals. In addition, the global feed industry has experienced geopolitcal events in the form of tariffs and trade restrictions between the USA and China, with direct ramifications on access to soybeans, a major globally traded protein commodity. This has sparked renewed interest in nutrition and metabolism of crystalline amino acids. The recent outbreak of African swine fever has reduced pig production in China, Vietnam and other countries in Asia and Europe, with demand for pork imports and replacement meat on the rise in affected countries.

The RAAN-A Organising Committee (Bob Swick, Wayne Bryden, Mingan Choct, Fran Cowley, Frank Dunshea, Roger Hegarty, Amy Moss, Ian Sawyer and Rob van Barneveld) have selected speakers to address these issues in the spirit of sharing and debating developments in animal nutrition with fellow researchers and those engaged in the animal industries. Invited papers in this volume explore different aspects of both ruminant research and those engaged in the animal industries. Invited speakers to address these issues in the spirit of sharing and debating developments in animal nutrition with fellow researchers and those engaged in the animal industries.

The Cumming-Farrell Oration celebrates the contribution of Professor Rob Cumming and Professor David Farrell to non-ruminant nutrition and to their roles in the establishment of RAAN-A. Rob Cumming and David Farrell, respectively from South Africa and Ireland, established UNE as a leading site of poultry nutrition research in Australia. Rob was also a noted avian virologist and David also worked with pigs, especially amino acid digestion. Both Rob and David made numerous contributions to improving the nutrition and health of poultry and pigs in developing countries.

Lectures:
2015  A. W. Bell
2017  J. B. Furness
2019  G. S. Lynch

The Annison-Leng Oration celebrates the contribution of former UNE academics, Professor Frank Annison and Professor Ron Leng to ruminant nutrition. Frank Annison, who came from the UK, was an international leader in the nutritional biochemistry of ruminants and pioneered isotope dilution techniques to quantify intermediary metabolism in sheep and mammary metabolism. Frank’s first PhD student at UNE was a Yorkshireman, Ron Leng. Throughout his distinguished career, Ron has made major contributions to improving the nutrition of ruminants in the tropics and sub-tropics in both Australia and the developing world.

Lectures:
2017  R. A. Leng
2019  H. V. Oddy
Sponsors