

## On the program

### Livestock industries: environmental sustainability, profit and the path to carbon neutrality

- **Overview of the Australian Red Meat Industry's Carbon Neutral by 2030 Initiative** - Doug McNicholl, Meat & Livestock Australia, Program Manager Sustainability and Innovation
- **Transitioning the agricultural sector to a decarbonised economy** - Dr Cathy Waters, Climate Research Leader, NSW DPI
- **Selling carbon credits to Microsoft** - Stuart Austin, Wilmot Cattle Company
- **Carbon trading: is it worth it for Riverina livestock producers?** - Michael Gooden, RCS Australia

Followed by a Q & A style panel discussion chaired by Charles Sturt Professor of Food Sustainability Niall Blair

Beef	Sheep
<i>Bloat in southern beef production systems</i> Professor Bruce Allworth, Charles Sturt	<i>Development of technologies for lamb carcass assessment</i> Dr Steph Fowler, NSW DPI
<i>Shifting the paradigm for disease diagnosis in feedlot cattle</i> Associate Professor Jane Quinn, Charles Sturt	<i>Barley grass seed and sheep carcass damage</i> Dr Jane Kelly, Charles Sturt
<i>Genetic strategies aimed at improving the resilience of livestock and development of the breeding index – ImmuneDEX</i> Brad Hine, CSIRO	<i>Lamb mortality - do producers really know?</i> Kayla Kopp, Charles Sturt PhD student
<i>Update on research to drive more value from cull cows</i> Dr Michael Campbell, Charles Sturt	<i>Using modelling to refine management of ewes at joining</i> Amy Bates, Charles Sturt PhD student
<i>Safeguarding Australian beef exports and market access with the verification of TVB-N as a freshness biomarker</i> Dr Benjamin Holman, NSW DPI	<i>Autonomous mustering of sheep with drones using Artificial Intelligence (AI)</i> Professor Bruce Allworth, Charles Sturt
<i>Assessing the effects of heat stress on bull semen parameters; understanding that some bulls are affected more than others</i> Associate Professor Mark Baker, University of Newcastle	<i>Pilot study of a nutritional supplement, COS chitosan oligosaccharide, derived from crustacean shells fed to pregnant ewes</i> Professor Bing Wang, Charles Sturt
<i>A new medium for long term liquid storage of bull sperm at ambient temperature</i> Dr Allan Gunn, Charles Sturt	<i>The effects of feeding level and age on the digestibility of a pelleted diet</i> Tom Keogh, Charles Sturt PhD student
<i>Assessing maternal behaviour and calf health in beef cattle</i> Rory Nevard, Charles Sturt Masters research student	<i>The Sheep Sustainability Framework</i> Professor Bruce Allworth, Charles Sturt

### Building resilient livestock systems

- **Strengthening on-farm surveillance: A farmer-led partnership approach to strengthening biosecurity in local farming communities** - Dr Jennifer Manyweathers, Charles Sturt
- **Practical biosecurity steps on-farm** - Sophie Hemley, Animal Health Australia
- **Ecosystem benefits of dung beetles for sheep and cattle grazing operations** - Dr Russ Barrow, Charles Sturt, Dung Beetle Ecosystem Engineers
- **Hard seeded legumes in the pasture mix for soil and productivity** - Dr Belinda Hackney, NSW DPI
- **To restock or not to restock? Crunching the numbers with high livestock prices** - John Francis, AGRISTA
- **Producer case study: Managing livestock numbers during a volatile period** - Bobby Miller, Jugiong



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