



DairySA Innovation Day 2017

Re-imagining Dairy: Big Data Revolution

Thursday 8 June • 9.30 am • The Barn, Mount Gambier

With thanks and appreciation to our valued sponsors

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Dairy Australia

Gold:

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– Anipro/Delaval/
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Lunch:

Rabobank

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Closing Session:

Murray Goulburn

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LEGENDAIRY

DairySA Innovation Day 2017

Re-imagining Dairy: Big Data Revolution

Morning session

9:30 am		Registration, morning tea and trade displays
10:00 am	Louise Stock, Emcee	Welcome <i>Sponsored by Dairy Australia: Platinum sponsor</i>
10:05 am	Michael Connor Chair, DairySA	DairySA update: DairySA delivers farmer-driven projects across SA covering many aspects of dairy farm business operation and industry development. Chairperson Michael Connor provides an update on the latest activities and plans for the year ahead.
10:10 am	Ian Halliday Managing Director, Dairy Australia	Dairy industry situation and outlook update: What are the current challenges facing Dairy Australia? What are the recent successes? Ian Halliday, Managing Director, will provide an insight into Dairy Australia's focus and what's happening in dairy both nationally and internationally.
10:40 am	Matthew Shaffer CEO, DataGene	How do you make your herd improvement decisions? Herd improvement decisions are getting easier and becoming an integral part of farm decision making. DataGene's Matthew Shaffer will provide an update on the revolution of dairy herd improvement in Australia and what is so cool about DataGene.
11.20 am	Jeffrey Bewley University of Kentucky, US	Fine Tuning Technology and Data: Jeffrey Bewley will provide valuable insights into the big data revolution in precision dairy farming, how it's changing dairy farming across the world, and its ability to influence our decision making processes in the paddock.
12:00 pm	Lunch	Take time over lunch to visit our generous sponsors' trade displays. Find out some new information and grab a give-away or two! <i>Lunch sponsor: Rabobank</i>

Concurrent sessions: There is a choice of attending two sessions of the four available

Session A

1:10–2:00 pm
2.05–2.55 pm
The
Main Stage

Nicolas Lyons
National Development Officer
Robotic Milking Systems
DPI NSW

Dairy farming in the 21st century: Opportunities and challenges with robotic milking. How does milking with robots impact farm productivity, profitability or sustainability in today's environment? Nicolas Lyons will share the latest insights learned from AMS technology on farm and how dairy businesses can benefit from AMS on farm.

Sponsored by Performance Feeds - Anipro

Session B

1:10–2:00 pm
2.05–2.55 pm
The
Steakhouse

Dr Sabrina Lomax
Research Fellow,
University of Sydney

Virtual Herding Project: Imagine a world where traditional fence lines are replaced by 'virtual' ones. And farmers receive 'animal location updates' via their smartphones. Dr Sabrina Lomax looks at the processes and practicalities of cutting edge GPS technology and how it's set to change the face of the dairy industry. Prepare to be amazed.

Sponsored by DeLaval

Session C

1:10–2:00 pm
2.05–2.55 pm
The Bar

Dr Sharon Aarons
Senior Research Scientist,
Ellinbank

Spatial variability – mapping nutrients in pastures. Hear the insights behind Dr Aarons' innovative research on nutrients in soils and pasture, the technology that makes this possible and how it can benefit your farm business. 'Spatial variability' measures the differences in soil properties across a range of locations – from an entire region to within a single paddock. Once mapped, it can impact the management of soils, pasture production, fertiliser requirements and the environment. Can we blame the cows until they come home on this one?

Sponsored by Warrnambool Cheese & Butter

Session D

1:10–2:00 pm
2.05–2.55 pm
The
Oaktree Room

John Hunt
South Australian
Dairyfarmers Association

Have your say on the SA Dairy Industry Fund. Do you have ideas for projects or innovations that will build the capability, profitability and competitiveness of the SA dairy industry? The SA Dairy Industry Fund was established as part of the SADA Fresh label to return investment back into SA dairy industry projects from sales of SADA Fresh milk. This workshop is your opportunity to have your say on future projects and investments.

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Closing session

3:00 pm

Coffee and tea

3.10 pm

TAFESA presentations

The future of SA's dairy industry is in safe hands. The latest graduates of the TAFE SA dairy courses will be presented with their certificates celebrating their learning, development and involvement in SA's dairy industry.

3:20 pm

Jeffrey Bewley
University of Kentucky, US

Precision Dairy Tools: Explore the Potential. Jeffrey will run through the technologies that help monitor cows, that have great potential to support your own decisions and worker's observations on farm. But is the cost of all this technology worth it? Jeff challenges us and provides an argument to support precision ag. Today's closing session will give us a chance to reflect on the potential outcomes of the big data revolution in technology.

Sponsored by Murray Goulburn

4.00 pm

Summary and close

Head to The Top Paddock to meet members of the organising committee and DairySA Board and discuss the day's events with a light graze and drinks until 5:30 pm. Sponsored by GrainCorp Oilseeds

The dinner

In the evening, DairySA will host the Innovation Day Dinner, open to all, from 6:30pm. Don't miss this chance to get together with old and new industry friends, share the day's insights and provide feedback to the DairySA Board and team.

Be inspired by one of our industry's youth, **Beth Scott**, whose passion for dairy took her from a childhood on a Gippsland dairy farm to undertaking a Masters in the Netherlands. With no Dutch language skills, but with a swag full of ambition, Beth details the challenges and opportunities she experienced, and the importance of mentors who helped her on her journey.

Sponsored by Sinclair Wilson

The speakers

Jeffrey Bewley, University of Kentucky, US

An Associate Extension Professor in Dairy Systems Management at the University of Kentucky, Jeffrey's primary interests in the dairy industry are wide-ranging. They include the application of precision dairy farming technologies, economics of decisions on dairy farms, milk quality management, dairy cow comfort and wellbeing, records management and benchmarking, systems troubleshooting, and strategic dairy business management.

Dr Matthew Shaffer, CEO, DataGene

Matt Shaffer is the CEO of DataGene Limited, a new industry body set up to oversee genetic evaluation, herd testing software, a central data repository and industry delivery of herd improvement initiatives. Matt Shaffer grew up on a farm in Western Pennsylvania where his first paying job was milking cows. He went on to attend Penn State and Cambridge Universities before joining Hancock Agricultural Investment Group as Director of International Operations. While working for Hancock, he moved to Australia to open a subsidiary and has been here ever since. Before joining DataGene, Matt was the CEO of Holstein Australia and Program Manager for Genetics and Data Management for Dairy Australia.

Nicolas Lyons, DPI NSW, National Development Officer Robotic Milking Systems

Originally from Argentina, Nicolas holds a degree in Agricultural Engineering and a PhD in Veterinary Science, with a strong focus on dairy production. Nicolas is currently the National Development Officer Robotic Milking Systems – his key role is to support the profitable and sustainable integration of technology and robotic systems into dairying by connecting the whole industry, from farmer to service provider.

Dr Sabrina Lomax, Research Fellow, University of Sydney

Sabrina's family agricultural background led to her interest in animal health and production, a PhD and post-doctoral research focused on improving the welfare of extensively farmed livestock. Sabrina has recently joined the Dairy Science Group, as a research fellow focusing on the Rural R&D for Profit project "Enhancing the profitability and productivity of livestock farming through virtual herding technology".

Dr Sharon Aarons, Senior Research Scientist, Ellinbank

Dr. Aarons has over twenty years of experience investigating nutrient cycling and management in the dairy industry. Over that time she has worked to understand nutrient flows from soil to pasture and through grazing cows, including the direct return of nutrients to paddocks and the impact on soil properties.

Beth Scott, Masters Animal Science, Wageningen University

Growing up on a Gippsland dairy farm set the path early for Beth Scott. A move to the Netherlands in 2015, undertaking a Masters of Animal Science at Wageningen, offered both challenges and opportunities, and allowed her to specialise in Animal Breeding and Genetics. Beth is currently based at the Department of Economic Development, Jobs, Transport and Resources in Victoria, and hopes her Jersey Australia funded research into the genetics of stillborn Jerseys and Holsteins will be able to assist farmers to make better breeding decisions to improve calving performance.

