

Program

Thursday 10th September

Precision Agriculture Tools Demonstration and Workshop (PARG demonstration site UNE)

- 9:00am Precision Agriculture tools presentations
10:00am Open demonstration and discussion session
11:30am Lunch (provided)

13th Annual Symposium on Precision Agriculture in Australasia (Education building UNE)

- 12:00pm Registration opens (Foyer of Education Building)
2:00pm Official opening
Chair: David Lamb
- 2:10pm Managing nitrogen with active sensors
Jim Schepers (USDA - Agricultural Research Service)
- 2:40pm Canopy-scale detection of nitrogen in wheat using the Canopy Chlorophyll Content Index
Glenn Fitzgerald (Department of Primary Industries Victoria)
- 3:00pm Optimising nitrogen use in cereal crops using site-specific management classes and crop reflectance sensors
James Austin (Australian Centre for Precision Agriculture, University of Sydney)
- 3:20pm Evaluating a new proximal sensor for winegrape quality
Rob Bramley (CSIRO Sustainable Ecosystems and Food Futures Flagship)
- 3:40pm Afternoon Tea and Poster Session
Chair: Rob Bramley
- 4:20pm A producer perspective on the application of precision technologies
Kym I'anson (South Australian grain and hay producer)
- 4:40pm RTK CORS networks – the future of agricultural machine guidance
Tim Neale (FARMpos Pty Ltd)
- 5:00pm Linking unmanned aerial vehicle (UAV) technology with precision agriculture
Leasie Felderhof (SkyView Solutions Pty Ltd)
- 5:20pm Measuring and mapping crop vigour using an active optical sensor in an ultra low-level aircraft
David Lamb (CRC for Spatial Information and Precision Agriculture Research Group UNE)
- 7.00 for 7:30pm Symposium Dinner (Wicklow Hotel)**

Program

Friday 11th September

13th Annual Symposium on Precision Agriculture in Australasia (continued)

Chair: Ian Yule

8:30am Precision nutrient management in China supported by remote sensing and information technology

Ke Wang (Institute of Agricultural Remote Sensing & Information Technology, Zhejiang University)

9:00am On-farm carbon and biodiversity: mechanisms and PA tools for the future

Paul Frazier (Eco Logical Australia)

9:20am Autonomous tracking and control of livestock in extensive grazing systems

David Swain (CSIRO Livestock Industries)

9:40am Water use efficiency indicators for variable rate irrigation of variable soils

Carolyn Hedley (Landcare Research, Massey University)

10:00am Ord Irrigation Area - a diversity of precision agriculture applications

Jon Medway (Terrabyte Services)

10:20am Morning tea and Poster Session

Chair: Brett Whelan

11:00am Producer perspectives of precision agriculture

Richard Heath (Grains Producer and GRDC Northern Panel member)

11:20am A survey of Western Australian farmers on the uptake of precision agriculture: problems, issues and a way forward

Roger Mandel (Curtin University of Technology)

11:40am Examining the temporal availability of feed and regional turn-off patterns of cattle in Eastern Australia

Graham Donald (CSIRO Livestock Industries)

12:00pm Integration of operational constraints into management zone delineation methods

Pierre Roudier (Australian Centre for Precision Agriculture, University of Sydney)

12:20pm SPAA Producer Groups update

Mark Branson (Southern Precision Agriculture Association)

12:40pm Symposium Summary and Close

David Lamb (CRC for Spatial Information and Precision Agriculture Research Group UNE)

1:00pm Lunch

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Friday 11th September

GPS Livestock Tracking Workshop (Education building UNE)

- 2:15pm Introduction to GPS livestock tracking
Mark Trotter (CRC for Spatial Information and Precision Agriculture Research Group UNE)
- 2:30pm Pasture utilisation and nutrient redistribution in intensively managed dairy system
Ina Draganova (Institute of Natural Resources, Massey University, New Zealand)
- 2:45pm Adaptation behaviour of cattle relocated from the rangelands to a temperate agricultural grazing system
Dean Thomas (CSIRO Livestock Industries)
- 3:00pm Sirion, the new generation in global satellite communications: livestock GPS tracking & traceback
Gill Stassen (PacRim Satellite Communications)
- 3:15pm Afternoon tea and discussion session
- 4:30pm Close