

## Program

### Thursday 10<sup>th</sup> 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)

#### **13<sup>th</sup> Annual Symposium on Precision Agriculture in Australasia** (Education building UNE)

- 12:00pm Registration opens (Foyer of Education Building)
- 2:00pm Official opening  
*Professor Alan Pettigrew (Vice Chancellor UNE)*  
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)**

**Friday 11<sup>th</sup> September**

**13<sup>th</sup> 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 2  
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

**Friday 11<sup>th</sup> September (continued)**

**GPS Livestock Tracking Workshop** (Education building UNE)

- 2:15pm    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