



# 21<sup>st</sup> SYMPOSIUM ON PRECISION AGRICULTURE IN AUSTRALASIA

10th & 11th September 2018, at the Adelaide Oval,  
Ian McLachlan Room, Level 3 Western Stand

## MONDAY 10th September 2018

## PRESENTATION PROGRAM

- 11.50am **Arrival, Registration & Lunch**
- 12.40pm **Opening** Jessica Koch (SPAA)
- 12.50pm **Advancement of precision soil pH mapping in South Australia.** Andrew Harding (PIRSA)
- 1.10pm **Precision agriculture applied to citrus, experiences from Brazil.** André Colaço (CSIRO)
- 1.30pm **Remote sensing methods for managing Phytophthora root rot in avocado.**  
Surantha Salgadoe (UNEPARG)
- 1.50pm **The potential for a soil moisture prediction system for dryland cropping.**  
Thomas Bishop (USYD PALab)
- 2.10pm **Ceres Tag.** David Smith (Ceres Tag Pty Ltd)
- 2.30pm **Machine vision learning for crop disease and quality parameters.** Jacob Humpal (NCEA USQ)
- 2.50pm **Welcome to innovative SA** Hon. Tim Whetstone (Minister for Primary Industries & Regional Development)
- 3.00pm **Afternoon Tea**
- 3.40pm **Industry news – Case IH**
- 3.50pm **Industry news – John Deere**
- 4.00pm **A high-throughput method for accurate extraction of field plots from aerial orthomosaic images.** Zohaib Khan (Uni SA)
- 4.20pm **PA in sugarcane and peanut production.** Chris Russo (Farnsfield QLD)
- 4.40pm **Irrigation leak detection in drip irrigated vineyards using UAV based thermal imagery**  
Oliver Delves (Deakin University)
- 5.00pm **Modelling a spatially complex irrigated maize system with APSIM: a New Zealand case study**  
Joanna Sharp (Plant & Food Research, NZ)
- 5.20pm **Future Farm.** Rob Bramley (CSIRO)
- 5.40pm **Close**
- 5.40 pm **SPAA AGM**
- 6.00pm **PA Connections @ Trade Displays**
- 7.00pm **Symposium Dinner @ Cathedral Room, Level 3 Eastern Stand**

## TUESDAY 11th September 2018

## PRESENTATION PROGRAM

- 8.50am **Welcome**
- 9.00am **PAT and QGIS – your new best mates for PA data analysis.**  
Christina Ratcliff (CSIRO)
- 9.20am **Using soil sensors, plant tests and multispectral images to monitor nitrogen placement strategies for wheat subject to waterlogging.** James Brinkhoff (Deakin University)
- 9.40am **Satellite + LORAWAN: the world area network.** Mike Kenneally (Fleet Space Technologies)
- 10.00am **Pasture Tech – fast tracking precision technologies with Western Victorian sheep and cattle producers.** Jonathan Jenkin (Glenelg Hopkins CMA)
- 10.20am **Science program in the Food Agility CRC.** David Lamb (Food Agility CRC)
- 10.40am **Morning tea**
- 11.20am **Uptake of sustainable production techniques in Australian horticulture.**  
Andrew Shaw (AUSVEG)
- 11.40pm **On-farm field experimentation.** Simon Cook (Curtin Univ.)
- 12.00pm **UAV machine vision for cotton surface irrigation monitoring.** Derek Long (NCEA USQ)
- 12.20pm **PA and the Three I's principle: interoperable, interactive and interpretable.**  
Nathan Robinson (Federation University)
- 12.40pm **Using a portable dome and optical sensors for partitioning evapotranspiration into evaporation and transpiration components of Tall Fescue.** Muhammad Shahinur Alam (UNEPARG)
- 1.00pm **Machine learning in crop yield prediction.** Mario Fajardo (USYD PALab)
- 1.20pm **Close and Lunch**

**Optional PA in Practice Tour from 2.00pm**



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