



21st 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.** *Andre Colac (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.**
David Gobbett (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



Sydney
Institute of
Agriculture

