

Are we ready for automation?

Havelock North Function Centre 24-25 May 2017



Day 1 Wednesday 24 May

08:00 – 09:00 REGISTRATION (Hover and Click Links for Details)

9:00 – 10:30 Session 1: Are we ready?

- 9:00 Introductions
- 9:10 Platinum Sponsor – Hawke's Bay Regional Council
- 9:20 Automated Harvesting – is the Juice worth the Squeeze? (Chris Roberts – Cambridge Consultants)
- 9:50 People and technology – adapting to change (Amanda Lynn – Innovation Partnership)
- 10:20 Sixty Second Sponsor Slots

10:30 – 11:00 Netafim Morning Tea

11:00 – 12:40 Session 2: Capturing Information from the Field

- 11:00 Preferred future; the challenges of putting the pieces together (John White/Matt Adkins – Zespri)
- 11:20 Getting to Grips with Yield Monitoring (Simon Wilcox – A S Wilcox)
- 11:40 Hyperspectral imagery mapping species distribution (Tommy Cushnahan – Massey University)
- 12:00 Counting buds and berries (James Beech & Tony Cooper – Precision AI)
- 12:20 Thermal and LiDAR imaging from UAVs (David Herries – Interpine)

12:40 – 13:30 LandWISE Lunch

13:30 – 15:00 Session 3: Open Data

- 13:30 Platinum Sponsor – John Deere
- 13:40 Open government data (Jeff Cooke – Hawke's Bay Regional Council)
- 14:10 Integrating public and private spatially-based data (Aaron McCallion – Waka Digital)
- 14:30 LandWISE AGM

15:00 – 15:30 Apatu Group Afternoon Tea

15:30 – 17:00 Session 4: Enhancing the profitability and value of onions

- 15:30 Enhancing the profitability and value of NZ Onions (Jane Adams – Onions NZ)
- 15:40 Management Action Zones for Onions (Bruce Searle – Plant & Food)
- 16:00 Technology to monitor & manage Onion crops (Dan Bloomer – LandWISE)
- 16:20 Surface Contouring to improve drainage (Dan Bloomer – LandWISE)
- 16:40 Process Vegetables NZ, Vegetables Research & Innovation projects, GIA (John Seymour/David Hadfield)

18:00 – 18:30 WaterForce Pre-Dinner Drinks

18:30 – 21:30 Green Shed Conference Dinner

Innovation Panel (Amanda Lynn – Innovation Partnership)



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Day 2 Thursday 25 May

08:30 – 09:00 REGISTRATION (Hover and Click Links for Details)

9:00 – 10:30 Session 5: Planning and Optimising

- 9:00 Introductions
- 9:10 Platinum Sponsor– BASF Crop Protection
- 9:20 Refill Scheduling for Agricultural Robots and Other Vehicles (Rob Fitch – UTS/ACFR) [Skype]
- 9:50 Soil to sprinkler – automating irrigation management (Tony Davoren – HydroServices)
- 10:10 Variable Rate Fertiliser: the value proposition (Adrian Hunt – Plant and Food)

10:30 – 11:00 Ballance Agri-Nutrients Morning Tea

11:00 – 12:50 Session 6: Field Automation

- 11:00 Robotics in Australia and Europe (Dan Bloomer – LandWISE)
- 11:20 Orchard robotics and apple picking (Bram Smith – Robotics Plus)
- 11:40 Grapevine pruning robot (Scott Paulin – University of Canterbury)
- 12:00 A vision for robotic weeders of the future (Charles Merfield – Future Farming Centre)
- 12:20 Tree climbing robots in forestry (Richard Parker – Scion)

12:40 – 13:40 Eagle Technologies Lunch

13:40 – 15:30 Session 7: Horizons Regional Council Practical Session

- 13:40 **AGMARDT** Presentation: Agricultural robotics in a French farming context (Thibaut Delcroix – Naio Technologies)
 - 14:00 MicroFarm pH Mapping (Luke Posthuma – GrowMaps)
 - 14:20 Practical Demonstrations: OZ440, Google Cardboard, Veris Soil Mapping, Automating capture of soil moisture data (Repeated concurrent demonstrations)
- McCain Foods Afternoon Tea

15:30 CONFERENCE FINISH

Friday 26 May - The Technical Sessions

9:00 – 12:30 Part 1: Collection of data to inform farm decision making

What farmers and growers actually want – examples from cropping and viticulture
Some technologies and systems available. Capturing imagery from UAVs

13:00 – 17:00 Part 2: Collaboration

Opportunities for joint activities/research

