

## Sunday 15 October 2017

5.00pm	Registration opens
6.00pm – 7.30pm	Welcoming Reception <i>Venue: Novotel Tainui Hamilton, 7 Alma Lane, Hamilton</i>

## Monday 16 October 2017

7.30pm	Registration opens <i>Venue: Heaphy Pre-function, Ground Floor</i>
8.00am – 10.15am	<b>Whakatau, Welcome Addresses</b> <i>Venue: Heaphy 1 and 2, Ground Floor</i> <i>Chair: Armin Werner</i> PAANZ – Craige Mackenzie SELM – Mark Trotter ISPA – Nicolas Tremblay
8.45am – 9.15am	The Future of The Primary Industries is Innovation <b>Martyn Dunne</b>
9.15am – 9.45am	Fostering Business and Software Ecosystems for Large-Scale Uptake of IOT in Food and Farming <b>Sjaak Wolfert</b>
9.45am – 10.15am	Future of Farming: Digital Agronomy and Analytics <b>Raj Khosla</b>

10.15am – 10.45am **Morning Tea, Exhibition, Posters and an Opportunity to Network** *Venue: Arena Upper Concourse, First Floor*

## CONCURRENT SESSION - 1

10.45am – 12.00pm	<b>1A - 7ACPA</b> <b>The Digital Future in Crop Production has Arrived</b>  <i>Heaphy 1, Ground Floor, First floor</i> <i>Chair: Armin Werner</i>	<b>1B - 1ACPLF</b> <b>Preparing the Digital Future for Livestock Farming</b>  <i>Heaphy Room 2, Ground Floor</i> <i>Chair: Mark Trotter, Robyn Dynes</i>	<b>1C - DF&amp;G 2017</b> <b>Farmers and Growers Practising the Digital Future</b> <i>Arena Lounge, First Floor</i>
10.45am – 10.50am	Welcome to 7ACPA and Introduction <b>Armin Werner</b>	Welcome to 1ACPLF and Introduction <b>Mark Trotter</b>	Welcome to DF&G2017 and Introduction <b>Craige Mackenzie</b> <hr/> SPAA Update <b>Jessica Koch</b> <hr/> Precision Agriculture in Pastures and Livestock Farming <b>Chair: Hilton Collier</b>

<p><b>10.50am – 11.00am</b></p>	<p>Invitation to 8<sup>th</sup> Asian-Australasian Conference on Precision Agriculture <b>Manjeet Singh</b></p>	<p>The OECD Co-Operative Research Programme 'Biological Resource Management for Sustainable Agriculture Systems' <b>Rafael Blasco</b></p>	<p>Farm Management, Benchmarking and Purchase Through Satellite Remote Sensing - How can this Work in the Land of the Long White Cloud? <b>Brad Wooldridge</b></p>
<p><b>11.00am – 11.30am</b></p>	<p>Challenges in Research and Development to Advance Agriculture Panel Discussion <b>Chair: Ian Yule</b> <b>Panelists: Raj Khosla, Karen Lewis</b></p>	<p>Exploring the Potential of Precision Dairy Tools <b>Jeffrey Bewley</b></p>	<p>Dairy Farming with Precision Pastures and Livestock Farming, example in New Zealand <b>Hayden Lawrence</b> The Role of Precision Agriculture in Sheep and Beef Hill Country Farming <b>James Parsons</b></p>
<p><b>11.30am – 12.00pm</b></p>	<p>Diversity and Advancements of Precision Horticulture in Asia <b>Maohua Wang</b></p>	<p>The Precision Livestock Farming Reality in Asia – Example India <b>Manjeet Singh</b></p>	<p>Panel discussion on success criteria and challenges of Precision Livestock Farming <b>Including: Jason Archer, Gavin McEwen</b> <b>Precision Agriculture in Elevator Pitches</b> Exhibitors Pitch with One Slide in 60 Seconds their Products or Services</p>
<p><b>12.00pm – 1.00pm</b> <b>Lunch, Exhibition, Posters and an Opportunity to Network</b> <i>Venue: Arena Upper Concourse, First Floor</i></p>			

## CONCURRENT SESSION - 2

1.00pm – 2.50pm	2A - 7ACPA <b>Sensor and Data I</b>  <i>Heaphy 1, Ground Floor Chair: Abas Jafari, Sakae Subusawa</i>	2B - 7ACPA <b>Education and Adoption</b>  <i>Brooklyn 1, First Floor Chair: Paul Johnstone</i>	2C - 7ACPA <b>Big Data and Data Analytics</b>  <i>Brooklyn 2, First Floor Chair: Jako Fourie, Daan Goense</i>	2D - 1ACPLF <b>Wellbeing Assessment of Livestock with Precision Agriculture-Technologies</b>  <i>Heaphy 2, Ground Floor Chair: James Manning, Derek Bailey</i>	2E - 1ACPLF <b>Large Scale Hyperspectral Sensing of Pastures</b>  <i>Brooklyn 3, First Floor Chair: Reddy Pullanagari, David Swain</i>	2F - DF&G 2017 <b>Precision Agriculture in Permanent Crops</b>  <i>Arena Lounge, First Floor Chair: Stuart Smith</i>
1.00pm – 1.30pm	New Development in Proximal Soil Sensing <b>Nicolas Tremblay</b> <i>(for V Adamchuck)</i> (Session Keynote)	Adopting Precision Technologies in Intensive Apple Production in The USA <b>Karen Lewis</b> (Session Keynote)	Guidelines for Governance of Data Sharing in Agri-Food Networks <b>Sjaak Wolfert</b> (Session Keynote)	Can We Improve the Efficiency of Livestock Production by Using Technology to Facilitate Natural Behaviour? <b>Mark Rutter</b> (Session Keynote)	The Vision for Pioneering to Precision <b>Mike Manning</b> (Session Keynote)	Welcome and Objectives of this Session <b>Stuart Smith</b>
1.30pm – 1.50pm	Soil Apparent Electrical Conductivity Sensor Data for Estimation of Cl-Based Soil Compaction Status <b>Sun-ok Chung</b>	Real Industry Technology Learning Systems for Tertiary Teaching <b>Richard Flavel</b>	Is Big Data Driving a Paradigm Shift in Precision Agriculture? <b>Megan Cushnahan</b>	Applying Proximity Sensors to Monitor Beef Cattle Behaviour as an Indicator of Animal Welfare <b>Kym Patison</b>	Modelling Soil Fertility from Pasture Nutrient Concentration, Topography and Farm Fertiliser Management in New Zealand Hill Country <b>Philippa McVeagh</b>	Precision Technologies in Intense Fruit Production <b>Colin Brown</b> <i>(for C Bowman, CA/USA)</i>
1.50pm – 2.00pm	Custom-Built Wireless Sensor Networks to Monitor Soil Moisture <b>Jagath Ekanayake</b>	Tech Transfer or Co-Innovation: Communicating Weather Forecast for Irrigation Management <b>MS Srinivasan</b>	Design of Big Data Acquisition for Professional Grower Based on Smart Agriculture Machinery Systems <b>Eiji Morimoto</b>	Ear Tag Deployed Accelerometer Successfully Infers Sheep Behaviour <b>Jamie Barwick</b>	Hyperspectral Sensing of Heterogeneous Pasture – Changing Scales? <b>Ian Yule</b>	Precision Technologies in Kiwifruit Production, Example in New Zealand <b>Steve Saunders</b>
2.00pm – 2.10pm		Enhancing Pigeon Pea Production in India through Precision Agriculture <b>Mahantesh Patil</b>				Precision Technologies in Apple Production, Example in New Zealand <b>Rob Holtham</b>
2.10pm – 2.30pm	Machine Vision for Camera-Based Horticulture Crop Growth Monitoring <b>Alison McCarthy</b>	AG Gateway - Moving towards a Global Standard in Farm Data <b>Jim Wilson</b>	Big Data in Agriculture – From FOODIE Towards Data Bio <b>Karel Charvat</b>	On-Animal Sensor Technologies and Their Application in Sheep Production: A Systematic Review <b>Eloise Fogarty</b>	Incorporating Hyperspectral Data into Variable Rate Fertiliser Plans for New Zealand Hill Country <b>Alister Metherell</b>	Panel Discussion on Success Criteria and Challenges of Precision Horticulture/ Viticulture <b>Including:</b> <b>Matt Flowerday,</b> <b>Craige Hornblow</b>

	2A - 7ACPA	2B - 7ACPA	C2 - 7ACPA	2D - 1ACPLF	2E - 1ACPLF	2F - DF&G 2017
2.30pm – 2.40pm	Software Development of STS Miniature Spectrometer for Crop Monitoring System <b>Hong Sun</b>		A Big Data Approach to Predicting Crop Yield <b>Patrick Filippi</b>	Accessible Farm Animal Welfare Data: The Role of Interoperable Standards in Precision Livestock Farming <b>Christiane Bahlo</b>	Improving Aerial Topdressing for Hill Country <b>Sue Chok</b>	Panel Discussion continued
2.40pm – 2.50pm			Detection of the Pumpkin Flower to Estimate its Fruit Position Using a Colour Camera <b>Liangliang Yang</b>			<b>Precision Agriculture in Elevator Pitches</b> Exhibitors Pitch with One Slide in 60 Seconds their Products or Services
2.50pm – 4.10pm	<b>Afternoon Tea, Exhibition, Posters and an Opportunity to Network</b> <i>Venue: Arena Upper Concourse, First Floor</i>					
<b>CONCURRENT SESSION - 3</b>						
4.10pm – 6.00pm	<b>3A - 7ACPA</b> <b>Site Specific Farming I</b>  <i>Heaphy 1, Ground Floor</i> Chair: Muhamad Rahman, Carolyn Hedley	<b>3B - 7ACPA</b> <b>Sensor and Data II</b>  <i>Brooklyn 1, First Floor</i> Chair: Mario Pedraza, Josse De Baerdemaeker	<b>3C - 7ACPA</b> <b>RPAS / UAV in Precision Agriculture</b>  <i>Brooklyn 2, First Floor</i> Chair: Tristan Perez	<b>3D - 1ACPLF</b> <b>Sensing Technologies for Precision Livestock Farming</b>  <i>Heaphy 2, Ground Floor</i> Chair: Jamie Barwick, Kym Patison	<b>3E - 1ACPLF</b> <b>Farm Management Information Systems</b>  <i>Brooklyn 3, First Floor</i> Chair: Mark Neale, Warren King	<b>3F - DF&amp;G2017</b> <b>Exhibition</b>  <i>Arena Lounge, First Floor</i>
4.10pm – 4.40pm	The Impact of Spatial Variability in Soil Nitrogen and the Value in its Management: A Case Study <b>Joanna Sharp</b> (Session Keynote)	Laser Ultrasonic Monitoring of the Elastic Properties of an Apple <b>Samuel Hitchman</b> (Session Keynote)	Research And Application of Plant Protection Techniques and Implements for Rice Production in China <b>Xiwen Luo</b> (Session Keynote)	Brave New World by Animal-Sensing <b>Daniel Berckmans</b> (Session Keynote)	Sensors and ICT to Access Wellbeing to Manage Livestock and to Inform the Value Chain <b>Daan Goense</b> (Session Keynote)	<b>Exhibition</b>
4.40pm – 5.00pm	Precision Agriculture for New Zealand Potatoes – Effect of Variable Yield, Tuber Size and Income <b>Allister Holmes</b>	Basic Tests of Chinese Cabbage Yield Monitoring Sensors for Small-Sized Korean Harvesters <b>Ye-Seul Lee</b>	UAV-Based Vineyard Water Status Forecasting, Univariate and Multivariate Models or Artificial Neural Network? <b>Tomas Poblete</b>	Automated Pupil Image Acquisition to Estimate of Serum Vitamin A Levels in Cattle Using Pupil Colour Analysis <b>Yuan Zhou</b>	A Preliminary Evaluation of the use of On-Animal Sensor Data to Predict Metabolizable Energy Intake of Sheep Using Deep Belief Networks <b>Hari Supawito</b>	

	3A - 7ACPA	3B - 7ACPA	3C - 7ACPA	3D - 1ACPLF	3E - 1ACPLF	3F - DF&G 2017
5.00pm – 5.20pm	Hardware and Embedded Algorithms for Real Time Variable Rate Fertiliser Applications <b>Joshua Stover</b>	Development of Real-Time Onion Disease Monitoring System using Machine Vision <b>Du-Han Kim</b>	Precision Agriculture Aviation: Current and Future <b>Yubin Lan</b>	Sound Analysis and Detection, and the Potential for Precision Livestock Farming <b>James Bishop</b>	The Nutritive Value of Forage and Weed Species Grazed by Beef Cattle in Australia and the Effect on Livestock Selectivity <b>Jamie Manning</b>	
5.20pm – 5.40pm	Multi-Thematic Delineation of ‘Natural Zones’ of Arable Fields and Their Correspondence to Spatial Yield Variation <b>Dinanjana Ekanayake</b>	Automatic Detection and Identification of Invasive Arthropod Pests for Pest Management and Biosecurity <b>Taylor Welsh</b>	Integrating Geographic Information System and Remote Sensing in Predicting Rice Grain Protein <b>Tapash Sarkar</b>	Preliminary Research Shows Potential for Using Proximal Infrared Technology for Livestock Monitoring and Phenotyping <b>Jessica Roberts</b>	Precision Grazing Management – Understanding Farmer Uptake of Grazing Software <b>Callum Eastwood</b>	<b>Exhibition</b>
5.40pm – 6.00pm	FATIMA Czech Pilot <b>Karel Charvat</b>	Machine Vision System Grading of Pine Tree Seedlings <b>Benjamin McGuinness</b>	Monitoring the Growth Status Variability in Onion ( <i>Allium Cepa</i> ) and Garlic ( <i>Allium Sativum</i> ) with RGB and Multi-Spectral UAV Remote Sensing Imagery <b>Woo-Jae Cho</b>	User-Technological Index of Precision Agriculture <b>Karel Charvat</b>	The Combination of ONEsystem® and VRA Nitrogen Application Technology on Dairy Farms; Is it Worth it? The First Seven Months Results From 6 Irrigated Australian Dairy Farms <b>Stewart Spilsbury</b>	
<b>6.00pm – 6.10pm</b>	<b>TIME TO MOVE ROOM</b>					
<b>6.10pm – 7.30pm</b>	<b>World Café on Advancing Precision Agriculture in Asia, Australasia and Beyond</b> <i>Venue: Heaphy 2, Ground Floor</i> <i>Chair: Ian Tarbottom, Sjaak Wolfert, Armin Werner</i>					
6.10pm – 6.20pm	Setting the Scene: Future of Precision Agriculture - Replaced by integrated Farm-ICT and Value Chain? <b>Sjaak Wolfert</b>					
6.20pm – 7.30pm	Attendees of PA17 Work in a World Café Setting Participants Identify and Discuss Emerging Topics on Advancing, Adopting And Progressing PA in Asia, Australasia and the Rest of the World					

Tuesday 17 October 2017

CONCURRENT SESSION - 4

8.00am – 9.00am	<b>4A - Combined Plenary 7ACPA and 1ACPLF</b> <i>Venue: Heaphy 1, Ground Floor</i> <i>Chair: Brett Whelan</i>	<b>8.00am – 9.40am</b> <b>4B - DF&amp;G 2017</b> <b>Precision Agriculture in Annual Crop Production</b> <i>Venue: Arena Lounge, First Floor</i> <i>Chair: Roger Williams</i>
8.00am – 8.30am	Fate and Future of Optical Sensing in Precision Agriculture <b>Nicolas Tremblay</b>	Welcome and Objectives of this Session <b>Roger Williams</b>
8.30am – 9.00am	Precision Agriculture: Global Strategy in R&D for an Enabling Technology <b>Ian Ferguson</b>	20 Years of Precision Agriculture on Branson Farms – the Journey and Economics <b>Mark Branson</b>

9.00am – 9.10am **Time to move rooms**


CONCURRENT SESSION - 5

9.10am – 9.40am	<b>5A - 7ACPA</b> <b>The Digital Future in Crop Production has Arrived II</b> <i>Heaphy 1, Ground Floor</i> <i>Chair: Tristan Perez</i>	<b>5B - 1ACPLF</b> <b>Preparing the Digital Future for Livestock Farming II</b> <i>Heaphy 2, Ground Floor</i> <i>Chair: Ina Draganova, Ian Yule</i>	World Wheat Yeid. Record with Precision Agriculture <b>Eric Watson</b>
	Automatization in Precision Agriculture <b>Naoshi Kondo</b>	Advancements in Rangeland Livestock Management: New Technology Meet the Old Frontier of Extensive Grazing Systems <b>Derek Bailey</b>	Precision Technologies in Arable Variable Rate Irrigation, Example in New Zealand <b>Craige Mackenzie</b>  The Journey of SPAA: Benefits and Risks of Precision Agriculture in the Early Days <b>Jessica Koch</b>  Panel Discussion on Success Criteria and Challenges of Precision Arable Farming <b>Including: John Evans</b>  <b>Precision Agriculture in Elevator Pitches</b> Exhibitors Pitch with One Slide in 60 Seconds their Products or Services

9.40am – 10.35am **Morning Tea, Exhibition, Posters and an Opportunity to Network** *Venue: Arena Upper Concourse, First Floor*

## CONCURRENT SESSION - 6

CONCURRENT SESSION - 6					
10.35am – 12.15pm	<b>6A - 7ACPA Variability I</b>  <i>Heaphy 1, Ground Floor</i> Chair: I Made Anom Sustrisna Wiyaya	<b>6B - 7ACPA Data and Decision Support Systems</b>  <i>Brooklyn 1, First Floor</i> Chair: Chris McCool, Nicolas Tremblay	<b>6C - 7ACPA Site Specific Farming II</b>  <i>Brooklyn 2, First Floor</i> Chair: John Fulton	<b>6D - 1ACPLF Frame Conditions for Precision Livestock Farming I cont.</b>  <i>Heaphy 2, Ground Floor</i> Chair: Ian Tarbotton, Mark Trotter, Armin Werner	<b>6E - DF&amp;G 2017 Managing Within Limits with Precision Agriculture - Technologies</b>  <i>Arena Lounge, First Floor</i> Chair: Mike Manning
10.35am – 10.55am	Characterizing the Spatial Variability of Soil Properties and Crop Yield Using High-Resolution Remote Sensing Image and Ground-based Data <b>John Fulton</b>	Sequential Decisions in Digital Agriculture - A Cybernetics Perspective <b>Tristan Perez</b>	Automated Pollination of Kiwifruit Crops <b>Matthew Seabright</b>	Challenges and Solutions in Advancing the Use of Precision Livestock Farming: Introduction to Open Space Session <b>Mark Trotter</b>	Welcome and Objectives of this Session <b>Mike Manning</b>
				Introduction to Open Space Concept	Demand for ag-innovations in the Light of Policies and Governance in New Zealand <b>Deborah Roche</b>
10.55am – 11.05am	Comparison of Crop Stress and Soil Maps to Enhance Variable Rate Irrigation Prescriptions <b>Earl Vories</b>	Application of Statistical Machine Learning Algorithms in Precision Agriculture <b>Mohan Sridharan</b>	Creating Prescription Maps From Satellite Imagery for Site Specific Management of Cotton Root Rot <b>Chenghai Yang</b>	Open Space: Participants Identify and Discuss How to Advance Digital Livestock Farming or Precision Livestock Farming in Research, Development and Practical Farming In Their Home Countries and How to Communicate with Researchers/Developers as Well as Consultants/Educators <b>Participants of 1ACPLF</b>	Precision Technologies to Manage Arable Production Within Limits in New Zealand <b>Jemma Mulvihill</b>
11.05am – 11.15am			Variable Rate Irrigation Management for Soybean and Corn <b>Ruixiu Sui</b>		Precision Farming to Manage Arable Production Within Limits in New Zealand <b>Hugh Ritchie</b>
11.15am – 11.35am	Precision Technologies: Maximising the Value of Irrigation Water <b>Carolyn Hedley</b>	Integrating Soil Moisture Measurements into Pasture Growth Forecasting in New Zealand's Hill Country <b>Istvan Hajdu</b>	Transforming Variability to Profitability – Variable Seed Rates in New Zealand Maize <b>Allister Holmes</b>		Panel Discussion on Success Criteria and Challenges of Farming Within Limits with Precision Agriculture Technologies <b>Including: Warrick Catto, Charlotte Rutherford</b>
11.35am – 11.55am	Estimation of the Actual Evapotranspiration in Olive Orchard Using a Two-Layer Model Integrating Climate and Satellite Data <b>Fernando Fuentes</b>	Mobile Device Machine Vision Estimation of Mango Crop Load <b>Anand Koirala</b>	A Review of Practices in Precision Application of Granular Fertilisers <b>Miles Grafton</b>		<b>Precision Agriculture in Elevator Pitches</b> Exhibitors Pitch with One Slide in 60 Seconds their Products or Services

11.55am – 12.15pm	Implications of Plant-To-Plant Variability on Spatial Variability of Yield in Vegetable Crops <b>Bruce Searle</b>	rmAgro, a Reference Model for Data Exchange in Precision Agriculture. <b>Daan Goense</b>	Determination of Establish Point of Sugar Beet Plant For Use in Automatic Thinning Machine <b>Abdolabbas Jafari</b>		
<b>12.15pm – 1.00pm Lunch and posters</b>					
1.00pm – 5.00pm	<b>Field Trips</b>				
6.30pm – late	<b>PA17 – Conference Dinner</b> After Dinner Speaker: <b>Melissa Clark-Reynolds</b> <i>Venue: Heaphy 1 and 2, Ground Floor, Claudelands Conference and Events Centre</i>			Sponsored by  <b>NEW ZEALAND</b> TRADE & ENTERPRISE Te Taurapa Tūhono	



## Wednesday 18 October 2017

7.45am – 8.20am	<b>Exhibitor's Networking Light Breakfast</b> <i>Venue: Arena Upper Concourse, First Floor</i>				
8.30am – 9.00am	<b>Combined Plenary</b> <i>Venue: Heaphy 1, Ground Floor</i> <i>Chair: Nicholas Tremblay</i>				
	Open Data for Agriculture and Rural Communities <b>Karel Charvat</b>				
<b>CONCURRENT SESSION - 7</b>					
9.10am – 9.40am	<b>7A - 7ACPA</b> <b>The Future of Precision Agriculture II</b> <i>Heaphy 1, Ground Floor</i> <i>Chair: Nicholas Tremblay</i>			<b>7B - 1ACPLF</b> <b>Frame Conditions for Precision Livestock Farming II</b> <i>Heaphy 2, Ground Floor</i> <i>Chair: Callum Eastwood</i>	
	The Hands-Free Robot Field <b>Simon Blackmore</b>			Benefits, Limitations and Expectations to Animal Based Farm Information Management Systems <b>Reiner Brunsch</b>	
9.40am – 10.10am	<b>Morning Tea and Exhibition and a chance to network</b> <i>Venue: Arena Upper Concourse, First Floor</i>				
<b>CONCURRENT SESSION - 8</b>					
10.10am – 11.50am	<b>8A - 7APCA</b> <b>Variability II</b>  <i>Heaphy 1, Ground Floor</i> <i>Chair: Manjeet Singh, Megan Cushnahan</i>	<b>8B - 7APCA</b> <b>Automation / Robotics</b>  <i>Brooklyn 1, First Floor</i> <i>Chair: Xiwen Luo, Chris Lehnert</i>	<b>8C - 7APCA</b> <b>Farm Management Information Systems</b>  <i>Brooklyn 2, First Floor</i> <i>Chair: Minzan Li</i>	<b>8D - 1ACPLF</b> <b>Novel Sensing in Precision Pastures and Livestock Farming</b> <i>Heaphy 2, Ground Floor</i> <i>Chair: Dean Thomas, Mark Shepherd</i>	<b>8E - 1ACPLF</b> <b>Pasture Management with Precision Agriculture</b>  <i>Brooklyn 3, First Floor</i> <i>Chair: Richard Flavel, Jeffrey Bewely</i>
10.10am – 10.30am	Technology to Monitor and Manage Onions Crops <b>Dan Bloomer</b>	Robotic Weeding – From Concept to Trials <b>Tristan Perez</b>	Environmental and Food Safety Considerations in Precision Agriculture <b>Josse De Baerdemaeker</b>	Putting Precision Livestock research to work in extensive livestock production systems <b>David Lamb</b>	The Internet of Cows - Developing Digital Infrastructure for Extensive Livestock Production Systems <b>David Swain</b>
10.30am – 10.40am	Identification of Management Zones Based on Soil and Yield in Slope Citrus Field <b>Kengo Usui</b>	Thick Then Thin – A Novel Approach to Reducing Plant Spacing Variability in Small-Seeded Vegetable Crops <b>Adrian Hunt</b>	Digital Twins in Farm Management: illustrations from the FIWARE Accelerators SmartAgriFood and Fractals <b>Jan Willem Kruize</b>	iWelfare: Coming to a paddock near you <b>Sally Haynes</b>	System Design and Economic Benefits of Controlled Traffic Farming in Grass Silage Production <b>Simon Blackmore</b> <i>(for R Godwin)</i>
10.40am – 10.50am	Investigation of the Spatial Variation of Total Soluble Solids in Postharvest Mulberry Fruit <b>Liuwei Meng</b>				

	8A - 7APCA	8B - 7APCA	8C - 7APCA	8D - 1ACPLF	8E - 1ACPLF
10.50am – 11.00am	Soil Electrical Conductivity Imaging of The Soil Profile and its Relationship to Soil Properties <b>Ahmed El-Naggar</b>	Improved Vision-Based Weed Classification for Robotic Weeding – A Method for Increasing Speed while Retaining Accuracy <b>Chris McCool</b>	Smart and Connected Agri-Food: Beyond Precision Agriculture <b>Deborah Tod</b>	Fast Object Detection in Pastoral Landscapes using a Multiple Expert Colour Feature Extreme Learning Machine <b>Edmund Sadgrove</b>	Defining the Value Proposition for Using Technology to Improve Pasture Management and Harvest More Pasture <b>Mark Neal</b>
11.00am – 11.10am	Real-Time Lodging Analysis for Smart Combine Harvester <b>Naruyoshi Inagaki</b>	Crop Yield Estimation Using Deep Learning <b>Jaco Fourie</b>			
11.10am – 11.20am			Multi-Temporal Landsat Algorithms For The Yield Prediction Of Sugarcane Crops In Australia <b>Muhammad Moshiur Rahman</b>	Rapidly Determining Pasture Evapotranspiration From Proximally Sensed Data <b>Muhammad Shahinur Alam</b>	Spatial Distribution of Beef Cattle on a New Zealand Hill Country Farm: Monitoring the Use of Streams and Wet Areas <b>Ina Draganova</b>
11.20am – 11.30am	Evaluation of Field Condition by Using Smart Rice Transplanter <b>Hiroyasu Sasaki</b>	Lessons Learnt from Field Trials of a Robotic Sweet Pepper Harvester for Protected Cropping Systems <b>Christopher Lehnert</b>	Big Data System for Disaster Warning of Solar Greenhouse Vegetables <b>Ming Li</b>		
11.30am – 11.40am			A Cognitive Decision Tool to Optimise Integrated Weed Management <b>Kate Devitt</b>	A Sentinel View of Pasture Growth Rate <b>Richard Crabbe</b>	Exclusion Zones for Variable Rate Nitrogen Fertilisation in Grazed Dairy Pasture Systems in New Zealand <b>Dinanjana Ekanayake</b>
11.40am – 11.50am	Development of Smart 2nd Fertilizer Application System by Using Canopy Sensor. <b>Hiromi Fuji</b>	Automatic Sugar Beet Thinner Equipped with Machine Vision <b>Abdolabbas Jafari</b>	Design and Experiment of Embedded Multi-Function Wireless Sensor for Multi-Service Agricultural Information Acquisition <b>Kehui Xiao</b>		
<b>12.00pm – 1.00pm</b>	<b>Plenary and Conference Close</b> <i>Venue: Heaphy 1, Ground Floor</i> <i>Chair: Armin Werner</i>				
12.00pm – 12.25pm	A New Ag-Sustainability Model? Maori Business Culture! <b>Miriana Stephens</b>				
12.25pm – 12.55pm	Highlights of PA17 <b>Maohua Wang, Jeffrey Bewley, Carolyn Hedley, Dan Bloomer</b>				
12.55pm – 1.00pm	Closing of the PA17 Event <b>Craige Mackenzie</b>				
1.00pm – 1.30pm	<b>LIGHT REFRESHMENTS</b> <i>Venue: Heaphy Pre-Function Area, Ground Floor</i>				