

Monday 3 April 2023 - Day 1

Kiri Te Kanawa Theatre

Keynote speakers - sponsored by AGMARDT

Times	Keynote speakers - sponsored by AGMARDT	Language
Chair	Wendy Petrie	
9.00 - 9.10	Opening of academic programme	Eng
9.10 - 9.40	Cathy Burns - sponsored by Zespri The future of fresh produce	Eng
9.40 - 10.10	Brent Clothier Climate change	Eng
10.10 - 10.40	Eric Imbert Overview of global supply & demand	Eng

10.40 - 11.20 Morning tea

11.25 - 11.55	Sarah McLaren Life cycle assessment and other methods to measure sustainability	Eng
11.55 - 12.25	Francisco Mena Völker Growing avocados in challenging times	Eng
12.25 - 12.55	Andrew Robson How to navigate 'AgTech' for tree crops	Eng

12.55 - 1.55 Lunch

Kiri Te Kanawa Theatre			Hunua room 1			Waikare room			Hunua room 3		
Times	Planting density and production strategies		Times	Country reports		Times	Avocado oil		Times	Genomics	
Chair	Wendy Petrie		Chair	Emiliano Escebedo		Chair	Selina Wang		Chair	Neena Mitter	
2.00 - 2.15	Etaferahu Takele The effect on productivity and profit of high density planting of avocados		2.00 - 2.15	Jose Armando Lopez Orduna Country report Mexico		2.00 - 2.15	Andrew Logan Is There A Good Business Case To Press Avocado Oil?		2.00 - 2.15	Gul Ali The USDA Avocado Germplasm Collection: Genetics, genomics, phenomics and uses	
2.15 - 2.30	Claudia Hermosilla High Density Avocado Production in New Zealand. Experiences at King Avocado		2.15 - 2.30	Francisco Contardo Country report Chile		2.15 - 2.30	Allan Woolf Avocado oil from Kenya – maximising yield and quality of cold-pressed avocado oil		2.15 - 2.30	Mary Lu Arpaia Genetic diversity and population structure of the California avocado germplasm	
2.35 - 2.50	Therese Bruwer Productivity of 'Hass', 'Carmen-Hass®' and 'Gem®' using different plant spacings and manipulation techniques.		2.35 - 2.50	Jorge Restrepo Country report Colombia		2.35 - 2.50	Kristie O'Donnell Does Pulsed Electric Field (PEF) treatment of avocado increase cold pressed oil yield?		2.35 - 2.50	Stephen Fletcher A Chromosome Level Avocado Genome	
2.50 - 3.05	Zander Ernst Successful commercial trellising of Avocado: a case study of 'Maluma'.		2.50 - 3.05	César Peschiera Clark Country report Peru		2.50 - 3.05	Marie Wong Cold Pressed Avocado Oil – To Peel or Not To Peel		2.50 - 3.05	Donald Hunter New physiological and molecular insights on ripening biology of avocado	
3.10 - 3.25	Phillip West Using data to refine best practice extension to New Zealand growers		3.10 - 3.25	Jeff Oberman Country report California		3.10 - 3.25	Aldo Pesce Most common mistakes in avocado oil extraction		3.10 - 3.25	Helen Boldingh Effect of shoot meristem type on the likelihood of the shoot fruiting in subsequent years in New Zealand 'Hass' orchards.	

3.25 - 3.55 Afternoon tea

Pruning and canopy management			Consumer marketing			Avocado oil adulteration			Post harvest fruit performance - Sponsored by TOMRA Food		
Times	Pruning and canopy management		Times	Consumer marketing		Times	Avocado oil adulteration		Times	Post harvest fruit performance - Sponsored by TOMRA Food	
Chair	Wendy Petrie		Chair	Roger Bourne		Chair	Marie Wong		Chair	Jem Burdon	
4.00 - 4.15	Claudia Zulueta Alternative pruning dates and their effect on sprouting, flowering and production of Hass avocado trees in Chile.		4.00 - 4.15	Ana Ambrosi Building a Brand in a Brandless Category Becoming the Most Innovative Produce Company in the World		4.00 - 4.15	Andrew Logan Avocado Oil Processing – a Model for Self-Regulation		4.00 - 4.15	Adam Goldwater Monitoring avocado quality at retail to drive improvement	
4.15 - 4.30	Tatiana Cantuarias-Avilés Yield and growth responses to different pruning strategies in high-density irrigated avocado orchards under subtropical growing conditions		4.15 - 4.30	Stephanie Bazan Reimagining Shopper Marketing in the Produce Aisle		4.15 - 4.30	Selina Wang Chemical compositions of avocado oil made from whole fruit and mesocarp and CODEX purity parameters		4.15 - 4.30	Daryl Joyce Growing robust avocado fruit – A systems thinking approach to inform decision making	
4.35 - 4.50	David Oag The effect of a paclobutrazol soil drench on vegetative growth in avocados.		4.35 - 4.50	Carlo Magni Approaches to identify consumer opportunities for innovation in the avocado industry		4.35 - 5.05	Panel discussion This session will explore the significant problem of adulteration of avocado oil, how to detect it from a chemistry perspective, and the role of regulations such as CODEX in combating this practice.		4.35 - 4.50	Noel Ainsworth Improving domestic avocado quality to lift Australian consumer confidence	
4.50 - 5.05	Francisco Mena Völker Effect of Uniconazole soil spray applications as a possible replacement of foliar applications in the production of Hass Avocados in Chile.		4.50 - 5.05	Brier O'Shea Avocado trends in the New Zealand retail market					4.50 - 5.05	John-Paul Praat Using existing information to add value throughout the supply chain	

5.10 onwards Poster session

Come along to view posters, speak with their authors and network
Check the congress app for location

Tuesday 4 April 2023 - Day 2

Kiri Te Kanawa Theatre			Hunua room 1			Waitakere room			Hunua room 3		
Times	Sustainability		Times	Soils and soil biology		Times	Propagation				
Chair	Wendy Petrie			Jonathan Cutting			Udi Haskelberg				
9.05 - 9.20	John McGuigan	Eng	9.05 - 9.20	Mamus Ferreira		9.05 - 9.20	Jayeni Hiti Bandaralage	Eng			
	The Avocado's Sustainability Story in the U.S.			Discussing the relationship between soil physical properties and the yield potential of avocado: commercial results from four continents.			Let's toast – Avocado tissue culture goes commercial				
							Sponsored by Mission Produce				
9.20 - 9.35	Francisco Gardiazabal		9.20 - 9.35	José Miguel Tapia-Gatica		9.20 - 9.35	Rodrigo Duarte				
	Ecological Sustainability of Avocados in Chile			Soil characterisation (biological, physical and chemical) of highly productive New Zealand avocado orchards.			Micro-cloning as a nursery propagation technique for a global avocado industry.				
9.35 - 9.50	Brad Siebert	Eng	9.35 - 9.50	Francisco Gardiazabal		9.35 - 9.50	Josette Tin	Eng			
	Sustainability from a New Zealand avocado sector perspective			Effect of Bioaminol and Serenade on the production of Hass Avocados in Chile.			Micropropagation of Avocados (<i>Persea spp.</i>) in California				
9.50 - 10.05	Carol Ward	Eng	9.50 - 10.05	Maria Manjarrez							
	Progressing the sustainability agenda – insights from the New Zealand kiwifruit industry			Can we use a portable NIR (near infra-red) scanner and machine learning (AI) to quantify soil microbiology in avocado orchards?							

10.05 - 10.45 Morning tea

Kiri Te Kanawa Theatre		
Times	Keynote speaker session - sponsored by Darling Group	
Chair	Wendy Petrie	
10.50 - 11.00	Recap of previous day	
11.00 - 11.30	Lain Jager	Eng
	The future of food	
11.30 - 12.00	Florence Van Dyke	Eng
	Sustainability from a commercial angle	
12.00 - 12.40	Panel discussion	Eng
	Sustainability	

12.40 - 1.55 Lunch

World Avocado Congress Committee meeting – Waihorotiu room

Kiri Te Kanawa Theatre			Hunua room 1			Waitakere room			Hunua room 3		
Times	Sustainability		Time	Country reports		Time	Post harvest		Time	Agritech	
Chair	Wendy Petrie			Ken Melban			Zelda van Rooyen			Phillip West	
2.00 - 2.15	Shreyasi Majumda	Eng	2.00 - 2.15	Derek Donkin	Eng	2.00 - 2.15	Claudio Zulueta	Spa	2.00 - 2.15	Jonathan Dixon	Eng
	Environmental Life Cycle Assessment of New Zealand Avocados			Country report South Africa			Effect of different pre-harvest technical management on Postharvest condition of Hass avocado fruits in the interior and coastal zones of Chile.			Use of high-resolution drone imagery for crop estimation, health and size of GEM® and 'Hass' avocado trees in New Zealand	
2.15 - 2.30	Maria Isabel Larragoiti Suarez	Spa	2.15 - 2.30	Jen Scoular	Eng	2.15 - 2.30	Danilo Arellano	Spa	2.15 - 2.30	Muhammad Moshir Rahman	Eng
	Sustainability, the guiding axis of the APEAM AC			Country report New Zealand			Characterization of the respiration rate of avocados exported from different countries and its relationship with carbon dioxide			Better predicting the irregular bearing of avocado crops using sentinel 2 derived time series enhanced vegetation index	
2.35 - 2.50	Tatiana Cantuarias-Avilés	Spa	2.35 - 2.50	John Tyas	Eng	2.35 - 2.50	Jem Burdon	Eng	2.35 - 2.50	Thai Sade	
	Current agroclimatic aptitude of different regions of Brazil for 'Hass' avocado production			Country report Australia			Physiological limits for the controlled atmosphere storage of 'Hass' avocado fruit			Pollination of avocado orchards using Crossbee an artificial pollination solution	
2.50 - 3.05	Maria Isabel Larragoiti Suarez	Spa	2.50 - 3.05	Udi Gaf		2.50 - 3.05	David Billing		2.50 - 3.05	Gonzalo Martinez-Hermosilla	
	Forest conservation, a collective action.			Country report Israel			Chilling damage in 'Hass' avocado fruit skin			Avocado counting using machine vision and machine learning	
3.10 - 3.25	Jerry Prendergast and Hans Maurer		3.10 - 3.25	Ernest Muthomi					3.10 - 3.25	Craig Shephard	Eng
	A global industry perspective on fresh produce sustainability standards			Country report Kenya						Industry meets innovation: Building the national avocado tree crop map in Australia and ensuring its ongoing maintenance through engagement with industry.	

3.25 - 3.55 Afternoon tea

Time	Fertiliser and mineral nutrition		Time	Postharvest		Time	Propagation				
Chair	Suzanne Young			Daryl Joyce			Neena Mitter				
4.00 - 4.15	Michelle Miedecke		4.00 - 4.15	Mary Lu Arpaia	Eng	4.00 - 4.15	Oshry Markovich	Eng			
	Exploring avocado root function and partitioning of 15N to major organs in the tree during the spring root flush.			Postharvest storage quality and eating quality of a new promising avocado variety			Avocado (<i>Persea americana</i>) Rootstocks propagation Via Tissue culture				
4.15 - 4.30	Fredy Monserrate	Eng	4.15 - 4.30	Jem Burdon	Eng	4.15 - 4.30	Chris O'Brien	Eng			
	Influence of different fertilization regimes on avocado fruit mineral composition in the Bay of Plenty, New Zealand			Fruit texture assessment and interpretation in 'Hass' avocado			Cryopreservation of avocado shoot tips for long term conservation.				
4.30 - 4.45	Claudio Zulueta	Eng	4.30 - 4.45	Donovan Lewis		4.30 - 4.45	Puthiyaparambil Josekutty				
	Use of DMP - Nitrobreak, to improve the Urea fertilization efficiency in Chile.			Protocol precision ensures good quality arrivals on Maluma and growth worldwide.			Genotype independent in vitro cloning of avocado (<i>Persea americana</i>)				
4.45 - 5.00	Braulio Alberto Lemus-Soriano	Spa	4.45 - 5.00	Giyora Marom		4.45 - 5.00	Marguerite Hyde	Eng			
	Foliar application of silicon on preventing sunburn in avocado fruit			The control of dry matter through the entire value chain aiming at reducing internal quality problems and adjusting ripening protocols			Clonal Rootstock Budwood Storage Procedures for South African Propagation Conditions				
5.00 - 5.15	Lucas Cano		5.00 - 5.15	Claudia Fassio	Spa						
	Effect of Rootstock/Scion Compatibility on Avocado cv. Hass Fruit and Foliar Mineral Composition			Relationship between dry matter content and post-harvest quality of "Hass" Avocado in Colombia							

Wednesday 5 April 2023 - Day 3

Kiri Te Kanawa Theatre		Hunua room 1		Waitakere room		Hunua room 3		
Time	Consumer marketing and nutrition	Time	Water management	Time	Integrated pest management	Time	Diseases	
Chair	Wendy Petrie		Tim Spann		Brad Siebert		Glenys Parton	
9.05 - 9.35	Nikki Ford The Science of why avocados are so healthy	Eng	9.05 - 9.20 Ali Montazar Developing tools and information on crop water use and effective irrigation management in California avocado production systems	Eng	9.05 - 9.20 Yonatan Maoz Israeli Avocado orchards - a case study in IPM	Eng	9.05 - 9.20 Elizabeth Dann Understanding the mode of action of phosphite in avocado for enhanced management of Phytophthora root rot	Eng
			9.20 - 9.35 Marcelo Brossi Santoro Are tensiometers the best tool for water management in subtropical Hass orchards?	Eng	9.20 - 9.35 Catherine Wilks A review of arthropod pests of New Zealand avocados	Eng	9.20 - 9.35 Braulio Alberto Lemus-Soriano Management of root rot caused by Phytophthora cinnamomi Rands with beneficial microorganisms	
9.35 - 9.50	Jongkyu Jang Avocado: from zero to hero in the Korean market. The success of avocado and Korean consumer psyche	Eng	9.35 - 9.50 Tatiana Cantuarias-Avilés Strategies for reducing winter water stress in rainfed avocado orchards under changing climatic conditions in Southwestern São Paulo State	Spa	9.35 - 9.50 Ian Newton Avocado pest management in Australia: the current and future research, technology and management challenges	Eng	9.35 - 9.50 Elize Jooste Avocado sunblotch viroid: the challenge of symptomless carrier trees in disease management	Eng
9.50 - 10.05	Yasmine Probst Association with avocado consumption and cardiometabolic risk: analysis of the 2011–2012 National Nutrition and Physical Activity Survey.	Eng	9.50 - 10.05 Luis Montgomery Irrigation management during harvest and its influence on the postharvest of 'Hass' avocado in the north Peruvian coast	Spa	9.50 - 10.05 Mark Hoddle Proactive Biocontrol and IPM of Potentially Invasive Avocado Fruit Feeding Pests	Eng	9.50 - 10.05 Andrew Geering Surveillance for avocado sunblotch viroid utilizing the European honeybee (<i>Apis mellifera</i> L.)	Eng
10.05 - 10.20	Gina Widjaja Leveraging nutrition science and communications to promote avocado consumption in the United States	Eng	10.05 - 10.20 Enrique Rebaza Managing salinity while boosting water efficiency for sustainable avocado production	Spa	10.05 - 10.20 Dalton Baker Biology and ecology of citrus blossom bug in avocado orchards.	Eng	10.05 - 10.20 Lara Pretorius Rapid Sample Preparation for High Throughput Diagnosis of Avocado Sunblotch Viroid	Eng
10.20 - 10.35	Alejandro Gavito The Hass Avocado Board's role in growing avocado demand in the U.S. The current market trends, opportunities, and challenges	Eng	10.20 - 10.35 Francisco Mena Völker Effect of soil applied Kelpak in two zones - one irrigated with saline water and one with good quality water - on the production of Hass Avocados in Chile.	Spa	10.20 - 10.35 Matt Dyck Keeping New Zealand Fruit fly free	Eng	10.20 - 10.35 Elizabeth Dann Investigating fungi associated with panicle blight and dieback in avocado	Eng

10.35 - 11.30 Morning tea

Time	Breeding	Times	Plant nutrient management	Time	Pests	Time	Fruit rots	
Chair	Mary Lu Arpaia		Jonathan Dixon		Matt Dyck		Elizabeth Dann	
11.35 - 11.50	Peggy Mauk Field evaluation of five rootstocks developed by the rootstock breeding program at the University of California, Riverside (UCR).		11.35 - 11.50 Luis Montgomery Nutrient standards by age of leaf in 'Hass' avocado (<i>Persea americana</i> Mill.) in the north coast of Peru	Spa	11.35 - 11.50 Christina Hoddle Oviposition Biology and Behavior of the Large Avocado Seed Weevil, <i>Heilipus lauri</i> (Coleoptera: Curculionidae)	Eng	11.35 - 11.50 Kerry Everett Temperature and seasonality of infection of 'Hass' avocados by fruit rot pathogens	Eng
11.55 - 12.10	Therese Bruwer Screening of cultivars for pre-harvest orchard cold tolerance	Eng	11.55 - 12.10 Marcelo Brossi Santoro Optimum leaf sample size for nutritional diagnosis of subtropical rainfed Hass orchards	Eng	11.55 - 12.10 Edith Estrada-Venegas Rearing the large avocado seed borer <i>Heilipus lauri</i> (Coleoptera:Curculionidae) in México.		11.55 - 12.10 Anita Boyum Evaluation of alternative spray programs for the control of Pre- and Post-harvest diseases on Fuerte and Hass in South Africa	Eng
12.15 - 12.30	Zander Ernst Breeding and selecting cultivars and rootstocks set for the future of the avocado industry.	Eng	12.15 - 12.30 Francisco Mena Völker Nitrogen distribution and it's effect on productivity in avocado trees var. Hass in Chile.	Spa	12.15 - 12.30 Maxwell Kibor Abundance and diversity of thrips (Thysanoptera) on avocados and macadamias in the Levubu region of Limpopo Province, South Africa	Eng	12.15 - 12.30 Philip Elmer Field testing bio-fungicides for efficacy against postharvest rots in New Zealand 'Hass' avocados	Eng
12.35 - 12.50	Juan Sebastián Arias García Hass avocado phenology in the andean tropics of Caldas, Colombia		12.35 - 12.50 Luis Montgomery Nutrient standards by reproductive stage development in 'Hass' avocado (<i>Persea americana</i> Mill.) in the north coast of Peru	Spa	12.35 - 12.50 Edith Estrada-Venegas Mites associated to ambrosia beetles (<i>Curculionidae: Scolytinae</i>) on avocado (<i>Persea americana</i>) in Mexico.		12.35 - 12.50 Lucia Ramos Romero The relationship between postharvest rots and orchard variables in 'Hass' avocado orchards in New Zealand: The Avovantage project.	Eng

12.55 - 1.45 Lunch

Time	Breeding	Time	Pollination/fruit set	Time	Pests	Time	Postharvest	
	Wendy Petrie		Jonathan Dixon		Brad Siebert		Jem Burdon	
1.50 - 2.05	Neena Mitter Innovating avocado - Lab to orchard and beyond	Eng	1.50 - 2.05 Andres Bascope Use of natural bioactive compounds to mitigate oxidative stress and increase fruit set in avocados.	Eng	1.50 - 2.05 Paul Pidakala Effect of ethyl formate and phosphine fumigant as a disinfestation treatment on 'Hass' avocado fruit quality and target pest mortality	Eng	1.50 - 2.05 Robert Valkenburg Comparison of methods for rapid non-destructive and destructive measurement of dry matter, firmness, and rots in Hass Avocados	Eng
2.05 - 2.20	Theo Bekker Westfalia launches two new co-owned avocado rootstocks from its breeding and selection program	Eng	2.05 - 2.20 Harley Smith Physiological basis of summer fruit abscission in avocado.	Eng	2.05 - 2.20 Armando Equihua-Martinez The avocado stem borer <i>Heilipus cruciatus</i> (Coleoptera:Curculionidae) in Veracruz México.		2.05 - 2.20 Ryan Fink Unlocking ripeness and category growth through advanced imaging, machine learning and smarter sorting	
2.20 - 2.35	Eric Focht Eating quality, sensory profile, volatile analysis, and postharvest evaluation of two early season Hass-like mutants: Flavia and Eugenin	Eng	2.20 - 2.35 Juan Sebastián Arias García Fruit retention in Hass avocado by cardinal point in two contrasting zones of the Andean tropics in Colombia	Spa			2.20 - 2.35 Gonzalo Martínez Hermosilla Prediction of packed avocado porosity and its application on rapid optimisation of packaging design	

2.35 - 3.05 Afternoon tea

Kiri Te Kanawa Theatre							
Closing ceremony							
Chairs	Wendy Petrie Jen Scoular						Eng
3.10 - 4.00	Vote for next host country Closing of the 10th World Avocado Congress						Eng