

Whaowhia te kete mātauranga – Fill the basket of knowledge

UNITEC RESEARCH SYMPOSIUM 2018 PROGRAMME

Thursday 11 October, Building 23, Mt Albert Campus.

Proudly hosted by Tūāpapa Rangahau; Partnering Research and Enterprise

Time	Event	Location
8:30am - 8:55am	Registration Opens – Coffee, Tea and light snacks will be available	B23 - Foyer
9:00am - 9:10am	Research Symposium Opening Marcus Williams, Dean of Research & Enterprise	B23 – 1016
9:10am - 9:40am	Guest Presentations MC: Marcus Williams, Dean Research & Enterprise Merran Davis – Unitec Interim Chief Executive Dion Sheppard – Forensic Research & Development Programme Manager Environmental Science & Research, Ltd (ESR). Reuben Smiler – National Science Challenge (Te Paea Marae)	B23 - 1016
9:40am – 11:00am	Research with Impact Award Finalist Presentations MC: Marcus Williams, Dean Research & Enterprise Nominees: <ul style="list-style-type: none"> Geoff Bridgman, Social Practice <i>“I’ll be happy and smiling all the time” The impact of safety and relational learning for 9-12-year-old children.</i> Glenn Aguilar, Environmental & Animal Sciences <i>Drone acquired imagery for characterising ecological restoration areas in Northland.</i> Shannon Wallis, Engineering <i>The Effect of Ventilation on Volatile Organic Compounds Produced in Residential Buildings Under Simulated Occupancy.</i> Paula Buckley, Creative Industries <i>Water Drone 6 year product design project.</i> Judging Panel: <ul style="list-style-type: none"> Merran Davis (Head Judge) – Unitec Interim Chief Executive Kerry Francis – Academic Leader Architecture Denisa Hebblethwaite – Academic Leader Business Practice 	B23 -1016
11:00am – 11:10am	Short Break	Foyer
11:10am – 12:30pm Parallel Sessions	Stream 1 (Yellow) – The Birds & the Bees – Our Natural Environment Chair: Nick Kearns, Business Practice <ul style="list-style-type: none"> Mel Galbraith, Environmental & Animal Sciences <i>The black-backed gull in northern New Zealand: evidence of changing diet from stable isotope analysis of bone and feathers.</i> Andrew Veale, Environmental & Animal Sciences <i>Genomics detects unappreciated ocean-basin and island-scale structure in a circumpolar seabird: the white-chinned petrel.</i> 	B23 - 1009

	<ul style="list-style-type: none"> ○ Rui Peng, Environmental & Animal Sciences <i>Health Monitoring of Beehives based on Intelligent Sound Processing.</i> ○ Diane Fraser, Environmental & Animal Sciences <i>Climate change and the threat of the invasive house crow (<i>Corvus splendens</i>) to New Zealand.</i> 	
	<p>Stream 2 (Red) – Taking Care of Us – Health & Wellbeing Chair: Tennille Stone, Research Partner</p> <ul style="list-style-type: none"> ○ Alan Lockyer, Business Practice (presented by James Prescott) <i>Is New Zealand's community water supply safe to drink?</i> ○ Trevor Meiklejohn, Community Development <i>How can governance design options be developed for new and emerging sports? The case of Stand Up Paddling in New Zealand.</i> ○ Vimlesh Shukla, Healthcare <i>Qualitative Approach to Improve cardiovascular health and Kava use Amongst Fijian Indians living in Auckland.</i> ○ Samantha Heath, Healthcare <i>Factors influencing nurses' engagement with PDRP: Clues for transforming future outcomes.</i> 	B23 - 1016
	<p>Stream 3 (Green) – Creative Solutions to Real World Problems Chair: Gregor Steinhorn, Research Partner</p> <ul style="list-style-type: none"> ○ Paul Woodruffe, Creative Industries <i>The Piki Project, progress and potential.</i> ○ Joseph Aziz, Medical Imaging <i>Drawing as an effective method in anatomy learning among medical imaging students.</i> ○ Nadesa Goundar, Business Practice (presented by James Prescott) <i>Rent to Buy – Solution to Housing affordability – Is it Really?</i> 	B23 - 1008
	<p>Stream 4 (Blue) – Early Career Research Chair: Christian Probst, High Tech Transdisciplinary Research Network</p> <ul style="list-style-type: none"> ○ Ray Jauny, Healthcare <i>What is the Lived Experience of Older Migrants with Mild Cognitive Impairment? A Proposed Phenomenological Study.</i> ○ Nikki Hurst, Community Development <i>Fruits of the Fig-Tree. A Counsellor's Role in Assisting Gifted and Talented Adolescents to Address Their Multipotentiality.</i> ○ Kristie Cameron, Environmental & Animal Sciences <i>A global dog ownership problem: 'Training' owners to know their dogs.</i> ○ Tui Matelau, Bridging Education <i>Exploring the identity of Māori and Pacific female creative practitioners: A study of life stories using vertical layers of discourse.</i> 	B23 - 1020
12:30pm – 1:10pm	LUNCH	Foyer
1:20pm – 2:30pm Parallel Sessions	<p>Postgraduate 3 Minute Thesis (3MT) Competition MC: Falaniko Tominiko, Director Pacific Success Judging Panel:</p> <ul style="list-style-type: none"> ○ David Glover (Head Judge), ED Partnerships, Business Development & Marketing ○ Vanessa Byrnes, Head of Creative Industries ○ Curtis Bristowe, Pou Huritao Mātauranga Maori <p>Competitors:</p>	B23 – 1016

	<ul style="list-style-type: none"> ○ Favsta Fernandez (Masters in Osteopathy) <i>An exploration of whanau/family perspectives on a mobile application (app) for post-stroke care.</i> ○ Beenal Kanji (Masters in Architecture) <i>The space between: Defining the space between urban and rural.</i> ○ Sianne Smith (Masters in Architecture) <i>Architecture of Perception.</i> ○ Xavier Francis (Masters in Computing) <i>Predicting Wear Patterns on Footwear Outsoles.</i> ○ Soheil Varastehpour (Doctorate Computer Science) <i>Vein Pattern Recognition based on Deep Learning Algorithms for Forensic Investigation.</i> ○ Emily Bowerman (Masters in Landscape Architecture) <i>Reflecting Maori relationships with water in waterscape planning and landscape architecture.</i> ○ Kashyap Venkatesh Subramany (Masters in Computing) <i>Distinguishability of people in an ambient assisted living environment.</i> <p>The 3MT Competition features students from Unitec's postgraduate programmes. The students present their research in 3 minutes using one slide, with the best presentations being awarded prizes at the Symposium Prize giving event. There will be an informal panel discussion facilitated by Marcus Williams at the end of the competition.</p>	
	<p>Undergraduate Research Competition MC: Alistair Kirk, General Manager - Marketing Judging Panel:</p> <ul style="list-style-type: none"> ○ Melanie Ooi (Head Judge), Head of Engineering ○ Mary Johnston, ED People & Safety ○ Lee Baglow, Academic Leader Vehicle Systems & Materials <p>Competitors:</p> <ul style="list-style-type: none"> ○ Rory Carter, Bachelor of Construction <i>Analysis of the implementation of modular construction in the New Zealand construction industry.</i> ○ Zainab Almubarak, Bachelor of Animal Management & Welfare <i>Attitudes towards cats? A comparison between Saudi Arabia & New Zealand</i> ○ Aiona Pamela Suliafu, ECE Bachelor of Teaching <i>The heart that LISTENS is also HEARD.</i> ○ Kayla Rench & Phoebe Andrews, Bachelor of Applied Science <i>Dissemination of biosecurity information and compliance of ferry passengers travelling to selected islands in the Hauraki Gulf.</i> ○ Danyon Robertson, Bachelor of Landscape Architecture <i>A Martian ecology? The role of ecosystem design in the shaping human habitat on Earth and Mars.</i> <p>The Undergraduate Research Competition features students from Unitec's Bachelor's programmes. The students present their research using up to 3 slides and in 10 minutes, with the best presentation being awarded a prize at the Symposium Prize Giving.</p>	B23 - 1008
2:35pm – 4:25pm Parallel Sessions	<p>Stream 1 (Yellow) – Transforming Policy & Governance Chair: Asher Lewis, Research Administrator</p> <ul style="list-style-type: none"> ○ Leslie Kistan, Healthcare <i>Emergency Nurse Attrition Understanding the Emergency Nurse: A mixed methods study planned for Waitemata District Health Board(WDHB) Northshore Emergency Department to address Emergency Nurse Attrition,</i> 	B23 - 1016

	<ul style="list-style-type: none"> ○ Nick Kearns, Business Practice <i>A Model for understanding Third Age entrepreneurship (3AE) in New Zealand.</i> ○ Pauline Bishop & John Stansfield, Social Practice <i>"Not just nice ladies" challenging assumptions about early childhood teachers.</i> ○ Jennifer Huri, Healthcare <i>The views of undergraduate student nurses to the proposed End of Life Choice legislation in New Zealand.</i> ○ John Stansfield, Social Practice <i>Establishing guidance in an empowering profession.</i> 	
	<p>Stream 2 (Red) – Living in the Matrix – High Technology Chair: Roger Birchmore, Building & Construction Services</p> <ul style="list-style-type: none"> ○ Mohammad Waqas, Computer Science <i>Adaptive noise cancelation of audio recording drones.</i> ○ Shamim Shaikh & Madhusudan Vyas, Healthcare <i>Zebra app – an educational and screening tool to identify individuals at high risk of developing gastrointestinal neuroendocrine tumours (NETs).</i> ○ Carsten Kudra, Creative Industries <i>Looking Through the Eyes of Others: An exploration of Presence within 360-degree filmmaking.</i> ○ Mirjana Bogosanovic, Engineering <i>SIGFOX at Unitec: IoT implementation using dedicated LPWAN.</i> ○ Clemens Zeidler, Computer Science <i>LogSpider: A Distributed, Privacy-preserving and Tamper Resistant Backup System for Data Streams.</i> 	B23 - 1020
	<p>Stream 3 (Green) – Planning for our Future – Sustainable Development Chair: Ray Jauny, Healthcare</p> <ul style="list-style-type: none"> ○ Dan Blanchon, Environment & Animal Sciences <i>The effect of commercial composting on Moth plant (Araujia hortorum) seed viability.</i> ○ Shannon Wallis, Engineering <i>Challenging Global Waste Management: Bioremediation to Detoxify Asbestos.</i> ○ Dave Phillips, Engineering <i>Sustainable Surfing Tourism in Fiji.</i> ○ Magdalena Garbarczyk, Architecture <i>From the Waste Up: Creating a shift in perception.</i> ○ Aziz Ahmad, Engineering <i>A platform to analyze controllers for solar hot water systems.</i> 	B23 - 1008
	<p>Stream 4 (Blue) – Teaching our Tamariki – Youth & Education Chair: Sinead Hart, Senior Legal Counsel</p> <ul style="list-style-type: none"> ○ Jayne Mercier, Community Development <i>Using the Five C's model of positive youth development as a programme evaluation tool in a New Zealand context.</i> ○ Sylvia Hach, Community Development <i>A mood self-assessment tool for youth: First results.</i> ○ Hoa Nguyen, Social Practice <i>Formative Evaluation of the Financial Literacy Program for Youth in West Auckland.</i> ○ Taija Puolitaival, Building Construction & Services <i>Competence development through continuous professional learning in construction management in the era of fast paced digitalisation.</i> 	B23 - 1009

	<ul style="list-style-type: none"> ○ Patrick Dodd & Maryam Mirzaei, Business Practice <i>Effectiveness of cross-disciplinary authentic assessment.</i> 	
4:30pm – 6:00pm	<p>Research Symposium Prize Giving MC: Marcus Williams, Dean Research & Enterprise</p> <ul style="list-style-type: none"> ○ Research with Impact prize giving ○ Early Career Researcher prize giving ○ 3MT prize giving ○ Undergraduate Research Competition prize giving ○ Dean's Research Award ceremony ○ Drinks, Nibbles & Networking! 	B23 – 1016 Foyer