



New Zealand Institute of Architects Incorporated



# BACK TO THE FUTURE: THE NEXT 50 YEARS

51st International Conference of the Architectural Science Association (ANZAScA)  
Victoria University of Wellington, New Zealand

**29 Nov - 2 Dec 2017**  
**Program Schedule**

51th International Conference of the Architectural Science Association Wellington, 29 November -2 December 2017			
TUESDAY, 28 NOV			
TIME			
15:00-17:30	Registration Opens-Faculty Office-Te Aro		
18:00 - 20:00	Welcoming Drinks- Southern Cross Restaurant, Te Aro		

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Wellington, 29 November -2 December 2017

WEDNESDAY, 29 NOV

MARAĒ - KELBURN CAMPUS				
8:50	Welcome / Opening Assemble at Waharoa (Carved Gateway)- Timely meet requested			
9:00	Pōwhiri			
9:20	Kōrero on Whareniui			
9:30	Keynote 1- Jerome Partington			
10:30	Morning Tea Break			
10:50	Bus to Te Aro Campus			
	Registration-Te Aro Campuss			
	LT1		LT2	
Session	Architectural Science (I)		Context (I)	
	Session Chair - Nigel Isaacs		Session Chair - Morten Gjerde	
11:20-11:40	Relationship between indoor and outdoor fluorescent biological aerosol particles	Jin Zhou	The impacts of social and physical context on neighbourhood satisfaction in the suburbs	Zainab Abass
11:40-12:00	Ventilation for Reduced Heat Stress in Apartments	Christopher Jensen	Looking ahead: Investigating performance art with schoolchildren as a catalyst for urban redesign	Susan J. Wake
12:00-12:20	The Influence of indoor environmental quality in schools – a systematic literature review	Aniebietabas i Ackley	Moisture Production and Extraction in New Zealand Homes	Priyanka Bisht
12:20-12:40	Biomimicry as Innovation: A Systematic Review	Marzieh Imani	Reverberations: Architectural Practice through the Lens of Multiscale Dynamical Fractal Systems Theory	Cliff Kerr
12:40-13:00	End of Life Care in an Australian Hospital: The Role of the Built Environment in End of Life Nursing	Amelia Head	Identifying a Model Urban Precinct : Impact Of Built Mass for Thermally Comfortable Living in Tropics	Malthi Rajapaksha
13:00-14:00	Lunch @ Atrium			
Session	Architectural Science (II)		Context (II)	
	Session Chair - Marc Aurel Schnabel		Session Chair- Susan J. Wake	
14:00-14:20	The Impact of Thermal Comfort Criterial on Energy Consumption of Residential Buildings	Zhengen Ren	What makes a city 'biophilic'? Observations and experiences from the Wellington Nature Map project	Maibritt Pedersen Zari
14:20-14:40	Example of Medical Information on Asbestos: Transdisciplinary Research in Architectural Science	Emina Kristina Petrovic	Coastal retreat: future implications for architecture in New Zealand's coastal hazard zones	Chris Murphy
14:40-15:00	Fisherman Settlement and Housing Innovation based on Bioclimatic Design in Surabaya	Adinda Sih P.R. Utami	Bedroom and Room Standards and Large Housing in New Zealand	Iman Khajehzadeh
15:00-15:20	Soundscapes in Public Libraries - A case study	Jin Woo	Developing Culturally Appropriate Spatial Standards for Dwellings in New Zealand	Jacob Rhodes-Robinson
15:20-15:40	A Review of IAQ Standards and Guidelines for Australian and New Zealand School Classrooms	Joey Ys Loh	Dry Under the Floor – Development of NZ Sub-Floor Ventilation Requirements	Nigel Isaacs
15:40-16:00	Afternoon Tea Break @ Atrium			
Session	Culture		Design (I)	
	Session Chair - Chris Murphy		Session Chair- Guy Marriage	
16:00-16:20	Agricultural By-products for the Production of Building Insulation in New Zealand – A first Look	Zahra Balado	Settlement	Mark Southcombe
16:20-16:40	Reclaiming Heritage by Retelling 'The Thing' in Virtual Reality: Decoding Walled City of Lahore	Serdar Aydin	Improvisations in Polyhythmic Spatiality	Jeremy J. Ham
16:40-17:00	A visual consultation method for understanding spatial use in remote Aboriginal housing	Holly Farley	Enabling Automated Compliance Audit of Architectural Design	Robert Amor
17:00-17:20	Between Architecture and Construction: A Site of Integrated Learning	Kerry Francis	Sharing Space and Older New Zealanders: Preferences for the Conversion of Existing Houses	Fatemeh Yavari
17:40	Bus to Kelburn			
18:00-20:30	Welcome Reception - Adam Gallery-Gate 3, Victoria University,, Kelburn Parade, Kelburn, Wellington			



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THURSDAY, 30 NOV				
TIME	LT1		LT2	
9:00	Registration Open			
9:30	Keynote 2 Russell Loveridge			
10:30	Morning Tea Break @ Atrium			
Session	Architectural Science (III)		Vision	
	Session Chair- Michael Donn		Session Chair- Guy Marriage	
11:20-11:40	Public engagement in urban microclimate research- an overview of a citizen science project	Priyadarsini Rajagopalan	Regenerative development: what is it, how does it support innovation in the built environment and how can it lead to a sustainable and thriving future	Dominique Hes
11:40-12:00	Field Study of Auckland Housing Winter Indoor Health Conditions Associated with Insulation, Heating and Energy	Bin Su	Whither Design Theory and Methods?	John Gero
12:00-12:20	Less and More in Aotearoa New Zealand: More Houses and Less CO <sub>2</sub> Emissions	Min Hall	Sensory pleasure of interiority: finding transdisciplinary research language for complex indoor environment quality	Linda Pearce
12:20-12:40	Primitive Attitudes and Traditional Practices: Looking back for sustainable solutions to future flood disasters	Brenda Vale	Apartment Assessment Platform: A model for capturing and comparing apartment designs	Ben Coorey
12:40-13:00	Responsive Systems and Electronic Spatial Interfaces: Outcomes in Architectural Design Studios	Robert Cameron	Always New Performance Based Design: Ise Shrines as a Model for Future Architecture	Kirill de Lancastre
13:00-14:00	Lunch @ Atrium			
Session	Simulation (I)		Design (II)	
	Session Chair- Michael Donn		Session Chair- Brenda Vale	
14:00-14:20	Speculations on the Representation of Architecture in Virtual Reality: How can we (continue to) simulate the unseen?	Anders Hermund	Advancing collaboration between students of architecture and engineering	Guy Marriage
14:20-14:40	A Virtual Reality Experiment to Investigate Optimum High-Density Apartment Parameters	Llewelyn Griffiths	Biological Systems: Outcomes in Architectural Design Studios	Devon Ward
14:40-15:00	How Important is Thermal Insulation in the Modern Office Building?	Brittany Grieve	Explore a Combination of Materials in Building Sustainable Construction Practices	Paulo Vaz-Serra
15:00-15:20	Generating Urban Codes for Neighborhoods	Shuva Chowdhury	Stripping Back Kitchen Joinery	Christina Mackay
15:20-15:40	Acoustic Design for an Auditorium Project: Using building performance simulation to enhance architectural quality	Zhonghua Gou	Design that Builds Industry Skill and Capacity	Gregory Nolan
15:40-16:00	Afternoon Tea Break @ Atrium			
Session	Simulation (II)		Theory	
	Session Chair- Emina Kristina Petrovic		Session Chair- Mark Olweny	
16:00-16:20	Optimization of Complex Fenestration Systems using an Artificial Neural Networkce of office buildings	Sergio Vera	Exploration of indoor tracking systems as an architectural research tool for the study on the housing for the elderly	Yukiko Kuboshima
16:20-16:40	House retrofits and comfort measures to reduce heat stress and carbon in a warmer future	John Shiel	Gateway Pavillion: Returning to Conventional Practice	Adrian Janus
16:40-17:00	A Workflow of Data Integrating and Parametric Modelling in Urban Design Regulation	Yingyi Zhang	Facilitating Transformative Experiences: Case Studies for School Design	Lara Mackintosh
17:00-17:20	Building Performance Modelling: Parametric Study of Energy Optimization for Office Retrofit in the Tropics	Runddy Ramilo	Boyer's pedagogy of discomfort: examining a turn of the century idea for contemporary architectural education	Rebecca McLaughlan
17:20-17:40				
18:00	Bus to Dinner			
18:15-20:30	Conference Dinner @ Wharewaka Function Centre, Frank Kitts Lagoon, 2 Taranaki Street, Odins Square			

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FRIDAY, 1 DEC				
TIME	LT1		LT2	
8:30	Registration Open			
Session	Architectural Science (IV)		Modes of Production (I)	
	Session Chair- Christopher Jensen		Session Chair- Min Hall	
9:00-9:20	A Comprehensive Review of Literature on the Importance of Windowscapes	Leila Mirza	Potential for Prefabrication to Enhance the New Zealand Construction Industry	Milad Moradibistouni
9:20-9:40	A Pilot Study of Design Evaluation of Three Memory Support Residential Facilities in Victoria	Hing-Wah Chau	Towards the Development of Pre-Occupancy Evaluation Framework in New Zealand	Jisun Mo
9:40-10:00	Outdoor Wind Environment Study of High-rise Residential Buildings in Urban Areas: A Literature Review	Yi He	Thick and Thin: The Future for Walls as Solid Masses or Delicate Layers	Guy Marriage
10:00-10:20	Implications for the Design of Rental Housing for the Elderly that Improves their Quality of Life	Yukiko Kuboshima	Information Visualization for Multivariate Schematic Design	Chris Beorkrem
10:20-10:40	The Role of HVAC Filter in Building Operation and Maintenance	Jin Zhou	Estimating the Floor Area of a House Knowing its Number of Rooms and how these are named	Iman Khajehzadeh
10:40-11:00	Architectural Technology: Technology of Architecture	Gillian Armstrong	Thermal Comfort Analyses of Elementary School Students in the Tropical Region	Baharuddin Hamzah
11:00	Morning Tea @ Atrium			
Session	Practice, Education & Profession		Modes of Production (II)	
	Session Chair- Morten Gjerde		Session Chair- Priyadarsini Rajagopalan	
11:30-11:50	BIM is Easier Said than Done: Calibrating Architectural Education in New Zealand to the Opportunities of BIM	Rohan Bailey	A possible future for building Codes	John Gelder
11:50-12:10	Embodied Energy of the Common Wood Fired Brick	Mark Olweny	An intelligent system for actuating windows of naturally ventilated residential houses	M. K. Pokhrel
12:10-12:30	Looking Back To A Job Well Done?: Measuring Success in the Integration of Teaching and Learning across Multiple Modes of Delivery	Lara Mackintosh	Timber 4.0: A Computer-Vision Approach for Visual Grading Low-Grade Plantation Hardwood	Peter Booth
12:30-12:50	Design-Build An Organisation to Deliver: learning from a project management studio	Andrea Yunyan Jia	Timber Frame Construction for a Circular Materials Economy; Alternative Framing Methods and Post-Use Certification	Gerard Finch
12:50-13:10	<del>Space syntax in design curriculum: opportunities and challenges</del>	Peiman Amini Behbahani	Barriers and strategies to streamline an efficient BIM workflow within the New Zealand Construction Industry	Nelson Chan
13:10-14:10	Lunch @ Atrium			
14:10	Keynote 3			
	Anica Landreneau			
15:10	AGM, Awards & Closing			
15:30	Afternoon Tea @ Atrium			



### Wifi Connection

General visitor access is provided on campus. Just connect to the Victoria network using the instructions below. You will need an email address (this can be any email address).

1. Connect to 'Victoria' Wi-Fi
  2. Open a web browser and navigate to the internet
  3. Upon redirection to the Victoria Wireless Portal page, press 'Don't have an account?'
  4. Enter your email address and after reading the terms and conditions, tick the 'agree' box
  5. Press 'Register', and then 'Sign On' to complete the sign in process.
- The wireless access may time out after inactivity. Access is re-established after logging in again.

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