

# AUBEA2023 Conference

26 - 28 November 2023 | Massey University, Auckland, NZ

**AUBEA** Australasian Universities  
Building Education Association

TE KUNENGA | MASSEY  
KI PŪREHURUA | UNIVERSITY  
UNIVERSITY OF NEW ZEALAND  
SCHOOL  
OF BUILT  
ENVIRONMENT

Creating Capacity and Capability:  
Embracing advanced technologies  
and innovations for sustainable futures  
in building education and practice

## Sunday, 26 November

18.00 - 20.00	<b>Registrations and Welcome Reception</b> Venue: Grand Millennium Hotel, Auckland Sponsored by Naylor Love
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## Monday, 27 November

08.00 - ongoing	<b>Conference Registrations</b> Conference Venue: Grand Millennium Hotel, Auckland
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08.45 - 09.00	<b>Pōwhiri: Māori Welcome</b>
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09.00 - 09.15	<b>Welcome to AUBEA 2023 and International Research Week</b> <b>Dr Mostafa Jelodar</b> Conference Co-Chair School of Built Environment, Massey University
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09.00 - 09.15	<b>Conference Opening</b> <b>Professor Monty Sutrisna</b> Conference Chair, President of AUBEA Head of the School of Built Environment, Massey University Room: Millennium Ballroom
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09.15 - 09.45	<b>Keynote - Addressing the Construction Needs of Our Nation by Enhancing Capacity and Capability through Advanced Technologies, Innovation and Sustainability in Building and Construction Education and Practice</b> <b>Mr Rick Herd</b> Chief Executive Officer, Naylor Love, Auckland, New Zealand Room: Millennium Ballroom Sponsored by Naylor Love
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09.45 - 10.15	<b>Keynote - Construction 4.0 Technologies and the Future of the Construction Industry</b> <b>Professor Javier Irizarry</b> Georgia Institute of Technology, USA Room: Millennium Ballroom
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10.15 - 10.30	<b>Morning Tea/ Coffee</b>
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	CIB TG 124 Net Zero Carbon Forum	Stream 01 Building/ construction education & industry	Stream 03 Innovations in building/ construction	Stream 04 Advanced technologies and innovations in building/ construction	CIB Doctoral School Building/ construction education & industry
	Session Chair: Dr Niluka Domingo Massey University Room: Millennium Ballroom	Session Chair: Dr Don Samarasinghe Massey University Room: TUI 1	Session Chair: Dr. Chandana Siriwardana Massey University Room: TUI 2	Session Chair: Dr Vishal Kumar Massey University Room: Tasman 1	Session Chair: Dr Krisanthi Seneviratne Western Sydney University Room: Tasman 2

10.30 - 10.45	<b>Inauguration of the Net Zero Carbon Forum</b> Prof. Markarand Hastak Purdue University	ID 16 - Empowering Engineering and Built Environment Professionals: Exploring Education 5.0 and the Quintuple Helix Model of Innovation - Krystle Ontong - University of Cape Town, SA	ID 65 - Analysis of Safety and well-being factors related to the ageing construction workforce - Liyaning (Maggie) Tang - University of Newcastle, AU	ID 61 - Automated construction delay management mechanism (Earned Value) of Electrical and Instrument works with BIM, Ms Project and PowerBI - Kambiz Radman - Massey University, NZ	<b>Inauguration of the CIB Doctoral School</b> Prof. Srinath Perera Western Sydney University
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10.45 - 11.00	<b>Guest Speech: MBIE Building for Climate Change Programme</b> Antonia Reid Ministry of Business, Innovation & Employment	ID 21 - Informal worker's experience of accidents on construction sites - Samuel Adekunle - University of Johannesburg, SA	ID 81 - Examining Construction Contracting Innovation: Reality and Misconceptions - Linna Geng - Western Sydney University, AU	ID 139 - Exploring real estate's digital revolution: The impact of innovative technologies - Wajhat Ali - Massey University, NZ	ID 102 - Transforming the construction industry of Pakistan to Industry 4.0: What we have and what we need? - Fida Hussain Siddiqui - Swinburne University of Technology, AU
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11.00 - 11.15		ID122 - Exploring Job Crafting among Construction Managers in the Nigerian Construction Industry - Janet Mayowa Nwaogu - Hong Kong Polytechnic University	ID 68 (Online) - Making a case for Circular Economy principles in Modular Construction: Identifying Key Determinant Factors - Ayaz Khan - University of South Australia, AU	ID 166 (Online) - Artificial Intelligence to Improve Mental Health in Construction Industry: Emotion Detection Model for education and training programs - Ruwini Edirisinghe - RMIT University, AU	ID 177 - Practices and shortfalls in accurate public housing project cost estimate in New Zealand: an exploratory study - Jie Chen - Massey University, NZ
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11.15 - 11.30	ID 06 - High strength phase change material-incorporated recycled concrete for building applications - Vivian Tam - Western Sydney University, AU	ID 154 - Integrating women from culturally and linguistically diverse (CALD) backgrounds into construction workforce: A Review of literature - Buddhini Ginigaddara - University of Newcastle, AU	ID 189 (Online) - Subcontractor engagement in the Two-stage Early Contractor Involvement Procurement - Rehan Masood - Otago Polytechnic, NZ	ID 176 - Developing a statistical model for predicting the probability of projects' progress in the construction industry - Maryam Tagharobi - Massey University, NZ	ID 199 - A conceptual model to manage intragroup conflicts in construction projects: The role of stakeholder engagement - Nimmi Bhagya Senarath - Deakin University, AU
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11.30 - 11.45	ID 97 - Climate Change Resilience of Existing Buildings: Scientometric analysis of global research - Daniel Yamoah Agyemang - Hong Kong Metropolitan University	ID100 - Evolving Project Manager Competencies in the Dynamic Construction Industry: A Comprehensive Framework for Success - Omar Owais - Auckland University of Technology, NZ	ID 212 - Enhancing Construction Capacity with an Integrated Ontology-Driven Approach - Tirth Patel - University of Canterbury, NZ	ID 93 - Adoption of data visualisation and analytics environments in high-level construction portfolio management - Jaleh Sadeghi - Massey University, NZ	ID 205 - Building Capacity and Capability into Community Resilience to High-impact Weather Events: Factors Influencing Recovery in Two Case Study Communities in Auckland - Anna-key Spaulding-Agbenyegah - Massey University, NZ
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11.45 - 12.00	ID 88 - Net zero carbon buildings: progress and challenges in South Africa - Coralie Van Reenen - Council for Scientific and Industrial Research, SA	ID 207 (Online) - Career Development Challenges and Motivations for Female Construction Professionals in South Africa - Modupe Cecilia Mewomo - Durban University of Technology, SA	ID 145 - Performance Management in Team Projects: Preparing Work-ready Graduates - Rashika Sharma, Unitec, NZ	ID 114 - Evaluating the Use of Artificial Neural Networks for Capacity Forecasting in the Construction Industry - Azam Zavvari - Massey University, NZ	ID 152 - Exploring the influence of consultant selection process on consultant performance in the construction industry: A critical review - Mohammed Hummedi - Western Sydney University, AU
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12.00 - 13.00	<b>Lunch - Sponsored by Procure</b>				
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13.00 - 14.00	<b>Plenary Panel Discussion</b> <b>Embracing Advanced Technologies and Innovations for a Sustainable Future in Building Education and Practice</b> Panel Convenor - Rod Cameron - CanConstruct NZ, Massey University - MBIE, New Zealand Room: Millennium Ballroom				
	<b>Professor Javier Irizarry</b> - Georgia Institute of Technology, USA <b>Professor Makarand Hastak</b> - Purdue University, USA, CIB President <b>Professor Regan Potangaroa</b> - Massey University, New Zealand <b>Associate Professor Changxin Cynthia Wang</b> - University of South Wales, Australia		<b>Professor Suzanne Wilkinson</b> - Massey University, New Zealand <b>Mr Graham Burke</b> - Transformation Lead (People) Construction Sector Accord, NZ <b>Dr Chris Litten</b> - General Manager - Research at BRANZ, New Zealand		

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	<b>CIB TG 124 Net Zero Carbon Forum</b>	<b>Stream 01 Building/ construction education &amp; industry</b>	<b>Stream 03 Innovations in building/ construction</b>	<b>Stream 04 Advanced technologies and innovations in building/ construction</b>	<b>Stream 01 Building/ construction education &amp; industry</b>	
	Panel Convenor: Prof Suzanne Wilkinson Massey University	Session Chair: Dr Don Samarasinghe Massey University	Session Chair: Associate Prof. Linda Kestle Unitec Institute of Technology		Session Chair: Dr Brendan Kirkland Western Sydney University	
	Room: Millennium Ballroom	Room: TUI 1	Room: TUI 2	Room: Tasman 1	Room: Tasman 2	
14.00 - 14.15	<b>Panel Discussion</b> <b>The Role of Construction Stakeholder Collaboration and Engagement in the Transition to Net Zero Carbon</b>	ID 17 - Service Learning 4.0 - what knowledge and skills do students learn on workplace learning activities built into the curriculum, and how do these need to adapt for 4IR? - Mark Massyn - University of Cape Town, SA	ID 90 - Automatic identification of indoor movement pattern of older adults living alone at smart homes: rethinking in the post-COVID era - Fan Zhang - Hong Kong Polytechnic University	<b>Panel Discussion</b> <b>Integrating advanced technologies and modern methods into construction and built environment curriculum</b>	ID 34 - Creating a motivating environment for undergraduate university students in a technical course - Andries (Hennie) van Heerden - Massey University, NZ	
14.15 - 14.30	<b>Panel:</b> 1. <b>Antonia Reid</b> - MBIE, NZ 2. <b>Dr Casimir McGregor</b> - BRANZ, NZ 3. <b>Phoebe Moses</b> - BECA, NZ 4. <b>Matthew Cutler-Welsh</b> - NZGBC, NZ	ID 132 - Exploring Practitioner-Academic Potential in the Construction Management Discipline: A Case Study - Don Mason - Western Sydney University, AU	ID 4 (Online) - Harmonising aesthetics, functionality, stability, buildability, serviceability, maintainability and cost in infrastructure development - E Ogbefun University of Jos, Nigeria	<b>Panel:</b> 1. <b>Prof. Zora Vrcelj</b> - Head of Built Environment, Victoria University, AU 2. <b>Dr Yang Zou</b> - President BENZ, University of Auckland, NZ 3. <b>Dr Brian Gou</b> - Director of Postgraduate Studies, University of Canterbury, NZ 4. <b>Dr Zhenan Feng</b> - Digitalisation Research Group Lead, Massey University, NZ 5. <b>Dr Mostafa Jelodar</b> - Academic Lead and MOCABE Research Group Lead, Massey University, NZ	ID 58 (Online) - Relationship Between Cultural Practices and Ethics: The Case of Ghanaian Construction Industry - Matthew Ikuabe - University of Johannesburg, SA	
14.30 - 14.45	5. <b>Barry Lynch</b> - Logic Group, NZ 6. <b>Prof Srinath Perera</b> - Western Sydney University, AU	ID 144 - A contribution to the debate of establishing Construction Economics as an academic field: A bibliometric review - Rudzani Glen Muthelo - Tshwane University of Technology, SA	ID 170 - Collaborative risk management and dependency structure matrix in green building designs: a synthesis of three knowledge areas - Lungie Maseko-Biyela - University of the Witwatersrand, SA		ID 36 - Changing teaching and learning practices in university lectures due to COVID-19 - Gregory Chawynski - Massey University, NZ	
14.45 - 15.00		ID 147 - A Five-Year Review of The Impact of a First-Year Student Team Building Event - John Smallwood - Nelson Mandela University, SA	ID 195 (Online) - Safety Situation of Prefabricated Construction in New Zealand - Rehan Masood - Otago Polytechnic, NZ		ID 162 - Learner perceptions on the delivery of construction practical courses on virtual platforms during Covid 19 in Higher Education - Pride Ndlovu - University of the Witwatersrand, SA	
15.00 - 15.15	<b>Afternoon Tea/ Coffee</b>					
	<b>CIB TG 124 Net Zero Carbon Forum</b>	<b>Stream 02 Resilience &amp; sustainability in building/ construction</b>	<b>CIB Doctoral School Innovations in building/ construction</b>	<b>Stream 04 Advanced technologies and innovations in building/ construction</b>	<b>Stream 01 Building/ construction education &amp; industry</b>	<b>AUBEA Council Meeting</b>
	Session Chair: Dr Niluka Domingo Massey University	Session Chair: A/Prof Sepani Senaratne Western Sydney University	Session Chair: Dr Vishal Kumar Massey University	Session Chair: Dr Yang Zou University of Auckland	Session Chair: Prof. Vivian Tam Western Sydney University	
	Room: Millennium Ballroom	Room: TUI 1	Room: TUI 2	Room: TASMAN 1	Room: TASMAN 2	Room: Boardroom
15.15 - 15.30	ID 185 - Design Decisions Towards Minimising Construction Waste in Building Projects- Reasons for the Information Gap: An Interpretive Structural Modelling Approach - M.M.M.P. Mahinkanda - University of South Australia, AU	ID 02 - Challenges and opportunities of localising community participation in megaproject-induced internal displacement: An Australian case study - Shuang Zhang - University of Newcastle, AU	ID 64 - A Systematic Literature Review of the Previous Applications to the Systems Theoretic Accident Model and Process (STAMP) - Natalia Ortega - Massey University, NZ	ID 13 - Enhancing An Industrialised Building System Through Hybrid Information Technologies - Wei Zhou - Western Sydney University, NZ	ID 20 - Integrating digital tools with well-suited course design to enhance the effectiveness of online teaching for a construction planning course - Cynthia Changxin Wang - University of New South Wales, UK	
15.30 - 15.45	ID 26 - Potential of Blockchain for Connecting Stakeholders for Circular Economy in Construction - Navodana Rodrigo - University of Adelaide, AU	ID 18 - Investigating the impact of utilising modern methods of construction on the sustainability of affordable housing in Ghana - Alireza Moghayed - University of West of England, UK	ID 85 - Impact of covid-19 on supply chain management of the offsite construction sector in New Zealand - Sanaz Nesarmobari - Massey University, NZ	ID 73 - Application of Visual Computing and Deep Learning in the Construction Industry - Srinath Perera - Western Sydney University, AU	ID 89 - Transforming Construction Education: A Systematic Review of the Impact of Technology on Student Engagement, Learning Outcomes, and Employability - Amir Ghanbarpour - Bond University, AU	
15.45 - 16.00	ID 57 (Online) - The cost of Net-Zero waste: a contractors' perspective - HOFFIE CRUYWAGEN - University of Pretoria, SA	ID 41 - Enhancing Flood Resilience through Effective Land-use Planning Policies in New Zealand - Widi Aullagisni - Massey University, NZ	ID 107 (Online) - Exploring causes and mitigation strategies for variations in residential building projects in Sri Lanka - Charitha Herath - University of Vocational Technology, SL	ID 76 - Offsite Construction and BIM Integration Challenges in New Zealand Construction Industry: Stakeholder perspective - Nazarin Kordestani Ghalehnoei - Massey University, NZ	ID 133 - Design Principles for Effective Virtual Reality Simulations for Teaching Construction Management Courses: A Systematic Literature Review - Olabode Ogunmakinde - Bond University, AU	
16.00 - 16.15	ID 169 - Australia's Sustainable Construction Policies: A Federal Innovation Review - Alan Murray - University of Technology Sydney, AU	ID 62 - Enhancing supply chain sustainability and resilience: research and policy alignment in the Australian construction industry - Yingbin Feng - Western Sydney University, AU	ID 220 - Optimising contractor distribution process in a construction portfolio: A mathematical model based on historical data - Hamidreza Peivastehgar - Massey University, NZ	ID 158 - A conceptual framework to develop a digital twin of flexible pavement - Mohammad Odtallah - Swinburne University of Technology, AU	ID87 (Online) - Enhancing Student Engagement with Disruptive Pedagogy through Peer-to-Peer Learning: A Preliminary Quantitative Analysis - Nolwazi Qumbisa - Central University of Technology, SA	
16.15 - 16.30	ID 63 - Net Zero 2050: Analysing the proposed alternatives for building heating systems in the UK - Saad Shaikh - Oxford Brookes University, UK	ID 49 - Construction Sector Shocks & Stresses: An Introductory Scoping Review - Elrasheed Elkhidir - Massey University, NZ	ID 155 (Online) - Defining offsite construction: towards an innovative procurement strategy - Maheshi Tennakoon - University of South Australia, AU	ID 193 - Digital twinning of existing indoor space for improved indoor environmental quality monitoring and assessment - T.A.D.K. Jayasanka - Hong Kong Polytechnic University	ID 187 - Exploring the Integration of Technologies in Architectural Design Education and Practice: A Brazilian Case Study - Mozart Vidigal - Federal University of Minas Gerais, Brazil	
16.30 - 16.45	ID 35 - Existing Building Energy Efficiency Retrofit Policies: A Review and a Recommendation for Hong Kong - Amos Darko - The Hong Kong Polytechnic University	ID 143 - Drivers to the Adoption of Alternative Building Technologies for Housing Delivery in South Africa - Ntebo Ngcobo - University of Johannesburg, SA	ID 46 (Online) - Developing a Theoretical Model for Health, Safety, and Well-being (HSW) Practices at the Construction Procurement Stages - Faiza Kanwal - University of Newcastle, AU	ID 209 - Using Historic Building Information Modeling Tools to incorporate sustainable retrofitting practices for heritage buildings: A New Zealand Perspective - Mina Kakouei - Massey University, NZ	ID104 - Pedagogies for Digital Skills in Construction Education: A Systematic Literature Review - Fida Hussain Siddiqui - Swinburne University of Technology, AU	
16.45 - 17.00	ID 160 - Sustainable Soil Stabilisation for Roads: A Critical Review of Alkali-Activated Binders and Waste Glass - Sara Bayandor - Auckland University of Technology, NZ	ID 92 (Online) - Estimating manufacturing cost of M50 grade of recycled paver block for sustainable development using system dynamics model - Dilip Patel - SVNIT, India	ID 44 (Online) - Identifying factors influencing the productivity of mechanised track-laying process in the dedicated freight corridor project in India - M. R. Rajesh - SVNIT, India	ID 141 - Post-Adoption BIM Usage Drivers in the Indian Construction Industry - Anthony Mills - Deakin University, AU	ID 03 - Uncovering the Impact of COVID-19 on Quality of Life of Construction-Based Academics in New Zealand: A Perspective from Three Academic Organizations in Wellington and Auckland - Regan Potangaroa - Massey University, NZ	
16.45 - 17.15		ID 95 (Online) - Development of post-occupancy index (POI) for high-rise residential buildings - Dilip Patel - SVNIT, India				
18.30 - 22.00	<b>Conference Dinner: Venue: Sails Restaurant, Auckland (Transportation will be provided)</b> (To the restaurant, pick up time at 6pm at the registration table. To return from the restaurant to Grand Millennium hotel, pick up time at 10pm, at the entrance of the restaurant)					

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## Tuesday, 28 November

Tuesday, 28 November						
08.30 - ongoing	Conference registrations					
09.00 - 09.30	<p><b>Keynote - Digital Twins in Action: Enhancing Urban Resilience for the Challenges Ahead</b>  <b>Associate Professor Nan Li</b>                      Tsinghua University, China                      Room: Millennium Ballroom <b>Sponsored by NZIQS</b></p>					
	<p><b>Stream 02</b>                      Resilience &amp; sustainability in building/ construction                      Session Chair:                      Dr Ravindu Kahandawa                      Massey University                      Room: Millennium Ballroom</p>	<p><b>Stream 02</b>                      Resilience &amp; sustainability in building/ construction                      Session Chair:                      Dr An Le                      Massey University                      Room: TUI 1</p>	<p><b>CIB Doctoral School</b>                      Resilience &amp; sustainability in building/ construction                      Session Chair:                      Dr Krisanthi Seneviratne                      Western Sydney University                      Room: TUI 2</p>	<p><b>Stream 04</b>                      Advanced technologies and innovations in building/ construction                      Session Chair:                      Dr Daniel Paes                      Massey University                      Room: TASMAN 1</p>	<p><b>Stream 01</b>                      Building/ construction education &amp; industry                      Session Chair:                      Chinthaka Atapattu                      Massey University                      Room: TASMAN 2</p>	
09.30 - 09.45	ID 210 - Evaluating acoustic and thermal performance of low carbon binder Australian Hempcrete - Siddharth Girish Nair - University of Technology Sydney, AU	ID 196 - Green Construction Education: A Comprehensive Literature Review and Future Directions - Qimin Lu - University of Canberra, AU	ID 137 - Research Proposal: Designing and Implementation of a Decision Support System--- Sustainable Supply Chain Management of 3D Printing Construction in New Zealand - Jiayue Ma - Massey University, NZ	ID 30 - A conceptual workflow for live updating construction schedules by collecting and classifying data using a four-legged autonomous robot - Javier Izarray - Georgia Institute of Technology, USA	ID 78 - Construction Workforce Profiling and Skill Gaps in Regional NSW: Situational Awareness and Strategic Directions - Temitope Egbelakin - University of Newcastle, AU	
09.45 - 10.00	ID 208 (Online) - Retrofitting existing buildings for thermal comfort and energy efficiency in developing countries: A systematic review Modupe Cecilia Mewomo Durban University of Technology, SA	ID 157 (Online) - Smart retrofitting decision-making criteria for buildings: shortlisting via a questionnaire survey Sanduni Peiris - Hong Kong Polytechnic University	ID 130 - Understanding and readiness of the building construction industry in designing for circularity: a comparison with manufacturing industries - Kaveesha Gihani Dewagoda - University of Hong Kong	ID 60 (Online) - Towards the Use of Smart Wearables for Construction Project Delivery: An Aftermath Assessment of the South African COVID-19 Experience - Matthew Ikuabe - University of Johannesburg, SA	ID 168 (Online) - Women in Construction: An Investigation of Pipeline Leaks - Ruwini Edirisinghe - RMIT University, AU	
10.00 - 10.15	ID 53 - Improving Environmental Sustainability in Construction: Nature-Based Solutions and Products with Recycled Content - Moein Behzad - RMIT University, AU	ID 96 - Post-disaster temporary housing in Iran: A study of processes and technologies - Alireza Shamloo - Massey University, NZ	ID 47 - Investigation of Insulation Properties Impact on the Thermal Load of Residential Buildings - Mikael Gilbert - University of New South Wales, AU	ID 140 (Online) - Smart mobile crane modelling strategy for erection sequence generation in precast concrete low-rise buildings - Wei Zhou - Western Sydney University, AU	ID 173 (Online) - Government policies in the construction industry: awareness, application and effects - Chukwudi Okonkwo - University of Lagos, Nigeria	
10.15 - 10.30	ID 54 - Review of Challenges to Energy Efficiency Retrofitting of Existing Building Stock - Linyan Chen - Hong Kong Polytechnic University	ID 77 - Exploring the Impact of Emotion-Focused Coping Strategies, Including Humour, on Organisational Resilience: A Systematic Literature Review of the New Zealand Construction Industry - Mitansha - Massey University, NZ	ID 10 - Adaptability and Implementation of Climate-Resilient Retrofit Toolkits for Older People - Shuang Wu - Western Sydney University, AU	ID 197 - 3D printing technology as an innovative solution for sustainable construction in New Zealand's housing sector - Asad Ur Rehman Bajwa - Massey University, NZ	ID 178 - Improving student engagement in learning and assessment activities using peer-to-peer feedback - Paulo Vaz-Serra - University of Melbourne, AU	
10.30 - 10.45	ID 08 - Constraints to net zero carbon buildings development and strategies to enhance implementation: An international perspective - Eric Ohene - Hong Kong Polytechnic University	ID 70 - Methodological review of behavioural studies associated with compliance with building requirements - Yi Lu - Deakin University, AU	ID 11 - Operations Research as a Sustainability Enabler for Construction Logistics: A Transport Perspective - Kamal Dhawan - Auckland University of Technology, NZ	ID 42 - Towards an Innovative Low-Cost Instrument to Measure Outdoor Light at Night - Susan Mander - Massey University, NZ	ID 184 - The Quintuple Helix Model view of South Africa, its Built Environment and technological transformation: laying the foundation for a bespoke educational framework - Karen Le Jeune - University of Cape Town, SA	
10.45 - 11.00	ID 190 (Online) - The Climate of Crime and Urban Heat: Exploring the Relationship Between Urban Heat Islands Behaviour - Emil Jonescu - Harnes Sharley, AU	ID 171 (Online) - Sustainable Strategic Management for the Construction Industry: A Systematic Literature Review - Mpho Maiwashe - University of Johannesburg, SA	ID 163 - The Retentions Regime - A Toothless Tiger: Will it gain some teeth? - Margaret Stefanitsis - Massey University, NZ	ID 211 - What are the government's efforts to transform the construction industry? Comparing the digital transformation roadmaps from the UK, Singapore, and New Zealand - Vishal Kumar - Massey University, NZ	ID 84 - A Prediction Model for the Future Construction Demands of the Education Sector in Auckland Region - Eirashaid Elkhiir - Massey University, NZ	
11.00 - 11.15	Morning Tea/ Coffee					
	<p><b>Stream 02</b>                      Resilience &amp; sustainability in building/ construction                      Session Chair:                      Dr Navodana Rodrigo                      University of Adelaide                      Room: Millennium Ballroom</p>		<p><b>Stream 02</b>                      Resilience &amp; sustainability in building/ construction                      Session Chair:                      Dr Ravindu Kahandawa                      Massey University                      Room: TUI 2</p>	<p><b>CIB Doctoral School</b>                      Advanced technologies and innovations in building/ construction                      Session Chair:                      Dr Zhenan Feng                      Massey University                      Room: Tasman 2</p>	<p><b>Stream 01</b>                      Building/ construction education &amp; industry                      Session Chair:                      Prof. Regan Potangaroa                      Massey University                      Room: Tasman 2</p>	
11.15 - 11.30	ID 48 - Measuring key influential factors of recycled concrete price based on PLS-SEM model - Mingxue Ma - Western Sydney University, AU		ID 142 - Towards a holistic assessment of circular economy strategies: Introducing the 9R index and closed-loop index - Santiago Muñoz - Deakin University, AU	ID 72 (Online) - Application of Virtual Reality to mitigate the onsite assembly risks of Modular Construction: training and assessment scenarios - Ayaz Khan - University of South Australia, AU	ID 134 - Imperfect and Late Information: The Greatest Risks for Construction Contractors - Linna Geng - Western Sydney University, AU	
11.30 - 11.45	ID 51 - Advances in applications of machine learning in life cycle assessment of buildings - Yijun Zhou - Western Sydney University, AU		ID 175 - Life cycle energy consumption in China's urban residential building sector through 2035: A dynamic scenario simulation - Lei Liu - Western Sydney University, AU	ID 40 - Ayaz Khan (Presenting) ayaz.khan@mymail.unisa.edu.au University of South Australia - Hesam Khorrami Shad - Massey University, NZ	ID 186 - Identifying the long-term effects of construction safety training methods: A systematic literature review - Abdollah Baghaei Daemei - Massey University, NZ	
11.45 - 12.00	ID 19 - Evaluating the Impact of Modern Methods of Construction on the Life Cycle Cost of Affordable Housing Projects - Alireza Moghayeddi - University of West England, UK		ID 201 - A conceptual framework for implementing circular economy to minimise construction and demolition waste generation: engagement of project stakeholders - Yuchen She - Deakin University, AU	ID 66 - Augmented Reality for Offsite Construction: A Suitability Study - Zhidong Xu - Massey University, NZ	ID 200 (Online) - Defects in Reinforced Concrete Drainage Culverts: Developing Classification Systems for Defects, their causes and rectification techniques - Tan Hoang Bao Nguyen - Deakin University, AU	
12.00 - 12.15	ID 174 (Online) - Investigating the application and impact of concrete admixtures in construction projects - Chuwudi Okonkwo - University of Lagos, Nigeria		ID 167 (online) - Comparative Analysis of G+20 RC Building Utilizing Static and Dynamic Analysis as Per Eurocode 8-2004 Standards - Mistreselasie Abate - Engineering Institute of Technology, AU	ID 146 - How BIM and immersive technologies have been integrated into the mainstream construction management research - Bao Pham Van - RMIT University, AU	ID 216 - Evaluating the Effectiveness of Design-Build Project Delivery Method in Commercial Interior Design and Fit-Out Projects - Zechen Guan - Massey University, NZ	
12.15 - 12.30	Closing of AUBEA 2023, the announcement of the AUBEA 2024 Venue and Vote of Thanks Professor Monty Sutrisna Conference Chair & Head of the School of Built Environment, Massey University					
12.30 - 13.30	Lunch - Sponsored by AIQS					
13.30 - 17.00	Massey University visit and Site visits (Transportation will be provided. Pick up time at 01.30 pm, at the registration table) Sponsored by NZCBIA					

The construction industry  
is responsible for **47%** of  
global CO<sup>2</sup> emissions.

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