

Griffith Sciences WIL Expo T1 2023 - Engineering Schedule 08/06/2023

Session 1 Link to session				
Time	Name	Partner	Title	Assessor
9.00am - 12.00pm	Madison Hamono	Alluvium	Design and Construction of Portable Wave Tank for Community Engagement to Demonstrate Coastal Protection Strategies	Ali el Hanandeh
	Yihan Li	Centre for Planetary Health and Food Security	Climate smart and biochar-based innovative technologies on soil nitrogen transformations for sustainable viticulture in southeast Queensland (Honours)	Ali el Hanandeh
	Emma Luggie	E2Designlab	Integrating Multifunctional Benefits in Constructed Wetland Design - The Development of a Design Framework	Ali el Hanandeh
	Presto Thomas Elavanal Elavanal	School of Engineering and Built Environment	An Experimental Investigation on PFOS degradation using Vortex Fluidic Device under UV irradiation.	Jimmy Yu
	Georgy George	School of Engineering and Built Environment	Emission Trading Systems: A Global Comparative Analysis of Performance and Implementation Strategies	Jimmy Yu
Kwong Wai Yee Levia	SMEC Australia	A review on circular economy: the transition process and assessment of measuring indicators for organisations	Jimmy Yu	
James Orr	GHD	Comparison of Rainfall-Runoff Models to Improve Sewer Network Model Performance	Sunil Herat	
Kazi Fahad Qudus	School of Engineering and Built Environment	Dust Activities Due to Wind Erosion and Bush Fire. A Case Study of South East Queensland in 2019-20	Sunil Herat	
Anieka Van Twuiver	Jacobs		Sunil Herat	
Session 2 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.40am	Umair Agha	Quintas	Optimization and Integration of data download process from SCADA systems.	Andrew Busch
	Ethan Bolton	EVOLUT	Design and Implementation of a Full-Stack Web Content Management System for Evolut's Proposal Creation Page	Andrew Busch
	Chi Tak Yeung	School of Engineering and Built Environment	Sending IMU data wirelessly to a browser for display	Andrew Busch
	Quang Dang (Derek) Huynh	IIS, GUST	Segmenting the Human Body in Athletic Movements Using Deep Learning	Andrew Busch
	Quang Hien Le	School of Engineering and Built Environment	4-bit Floating Point Arithmetic Logic Unit	Andrew Busch
Abishek Jothi Michael Suresh Xavier Prak	LCI Consultants	Emergency Lighting Automation	Andrew Busch	
Benjamin (Ben) Wearing	GCORE	GUI Development for a Spinal Cord Rehabilitation System	Andrew Busch	
Dominic Campbell	Certify Network	Select App - A Progressive Web Application	Andrew Busch	
Session 3 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.40am	Wing Yee (Whitney) Chow	School of Engineering and Built Environment	Driveway and vehicle crossover design in geometrically challenging environments	Anisur Rahman
	Angela Dunn	Roesner and Hamilton	Comparative analysis of the new and historical Austroads roadside risk assessment processes	Anisur Rahman
	Jacob Knuth	School of Engineering and Built Environment		Anisur Rahman
	Tejas Pawar	School of Engineering and Built Environment	Systematic Literature Review on Embedding Environmental Values in Construction Sites.	Anisur Rahman
	Adam Puetter	Shadforth	Investigating the Design and Maintenance Standards of Bioretention Basins in Australia and Their Ability to Remove Pollutants	Anisur Rahman
Rakesh Wagh	School of Engineering and Built Environment	Systematic Literature Review Of The Policies For Effective Water Management In Smart Cities.	Anisur Rahman	
Bartosz (Bartek) Wus	ADCO Constructions	Enhancing Construction Risk Management at ADCO Constructions through the Implementation of a Risk Prioritisation Model	Anisur Rahman	
Kethmi Hiyare Pallege	Department of Transport and Main Roads (TMR)	Concept of Operations Framework between Parallel Motorways	Anisur Rahman	
Session 4 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.40am	Jiahui Gong	Pier & Pile Consulting Engineers	Research of Precast Screw Pile Capacity under vertical and Lateral loads	Dominic Ong
	Zhaoqi Hou	Pier & Pile Consulting Engineers	Review of Concrete Pavement Design Requirements for Bus Bays	Dominic Ong
	Ni lang	Brisbane City Council	Uplift Capacity of Blade Pile Foundation and FEM Simulation	Dominic Ong
	Wei Song	Pier & Pile Consulting Engineers		Dominic Ong
	Yan Xu	Pier & Pile Consulting Engineers	Compressive capacity of screw blade piles and FEM simulation	Dominic Ong
Zeping Yang	Pier & Pile Consulting Engineers	Correlation between the compressive capacity of blade pile and installation torque	Dominic Ong	
Yupeng Zhang	Pier & Pile Consulting Engineers		Dominic Ong	
Priodeep Chowdhury	PCA Ground Engineering	Investigation of Relationship of Grout Cube Density to Grout Cube Test Results for Soil Nails, Micropiles and Ground Anchors.	Dominic Ong	
Session 5 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.20am	Bryce Daly	Airport consulting group	Creating Sustainable, Effective & Equitable Airport Infrastructure: A Case Study of Darwin International Airport	Dong-Sheng Jeng
	Aung Myat (Andrew) Htoo Shwe	School of Engineering and Built Environment	Validation of friction development on soil-structure interactions using FEM	Dong-Sheng Jeng
	Jahanzeb Zia Niazi	RPQ Group	The Impact of Tonerplas additive on Basic and Advanced Parameters of different Asphalt Mixtures: An Analytical Investigation	Dong-Sheng Jeng
	Raymond Radomes	PCA Ground Engineering	Fibreglass Reinforced Polymer bars load capabilities on Compression and Shear	Dong-Sheng Jeng
	Cruise Ten	RPQ Group	The Impact of Asphalt Concrete Temperature on PQJ 380 Non-Nuclear Asphalt Density Gauge Readings: An Analysis	Dong-Sheng Jeng
Victoria Belmont	Anglo American Steelmaking Coal	Evaluation of Roof Bolt Performance in Underground Coal Mines Using Short Encapsulation Pull Tests	Dong-Sheng Jeng	
Jakob Beck	Construction Sciences		Dong-Sheng Jeng	
Session 6 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 10.00am	Maxwell PATANE	Haald Engineering	Analysing the Feasibility of Battery Powered Refuse Collection Trucks	Huaizhong Li
	Daniel Ross	School of Engineering and Built Environment	Comparing Exposure Time and Power Variations on Selective Laser Melted Ti-6Al-4V Mechanical Properties with Constant Energy Density	Huaizhong Li
Thomas Storey	Sicame Australia	Design of Two-Stage Cold Forming Tools to Optimize Manufacture of House Service Connector Fasteners	Huaizhong Li	
Session 7 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.20am	Lochlan Blake	Globe Consulting	Case Study of Existing Steel Composite Carpark Structure Design using Current Standards and Industry Research	Hassan Karampour
	Emine Busra (Hazel) Cetin	Globe Consulting	Comparison of Reinforced and Prestressed Concrete Diaphragms to Australian and International Standards	Hassan Karampour
	James Hardy	SMEC	An Investigation of Tension Stiffening Effects In FRP Reinforced Grout Using Numerical Modelling	Hassan Karampour
	Shuying Wang	School of Engineering and Built Environment	Finite element Analysis Model for Structural Health Monitoring: Griffith University Footbridge Case Study	Hassan Karampour
	Alex Whitehead	School of Engineering and Built Environment	Shear Performance Investigation of Timber-Steel Composites Exposed to Accelerated Aging Conditions	Hassan Karampour
Yuze WU	School of Engineering and Built Environment	Grillage Analysis Model for Structural Health Monitoring: Griffith University Footbridge Case Study	Hassan Karampour	
Sebastian Schubert Arriaza	SMEC GC	Application of the Digital Twin Methodology to Bridge Asset Management Operations	Hassan Karampour	
Session 8 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.20am	Cesar Alejandro Jofre Perez	Buldcheck QLD	Corrosion protection methods in harsh environments applied to the Ocean Park Tower residential building	Hong Guan
	Josh Said	OSKA Consulting Group	Application of cracked stiffness modifiers in finite element modelling in accordance with Australian Standards	Hong Guan
	Paige Starr	Group6	The Implementation of Modular Construction Techniques at Pallara State School	Hong Guan
	Cao Dat Truong	Edge Consulting Engineers	Numerical Analysis of the Effects of Staircases on Core Walls in Reinforced Concrete Buildings	Hong Guan
	Lancelot Zatyko	G.James Glass and Aluminium Pty Ltd	Structural Behaviour and Design of Aluminium Sub-heads in Façade Systems	Hong Guan
Yaoyuan Zhang	School of Engineering and Built Environment		Hong Guan	
Riley Bender	Geleon Consulting	Review of Australian Standard Design Vehicle Characteristics	Hong Guan	
Session 9 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.40am	Mayank Bansal	School of Engineering and Built Environment	A Comparative Assessment of HEC-HMS and AWBM for Hydrological Modelling Simulation	Hong Zhang
	Bingjun (Sam) Deng	School of Engineering and Built Environment	Investigating the Burleigh Beach Shoreline Response to Beach Nourishment	Hong Zhang
	Michael Dinh	City of Gold Coast		Hong Zhang
	Yifei Ma	Cities Research Institute	A comprehensive review of flood risk reduction strategies: Factors influencing their effectiveness and implications for practice	Hong Zhang
	Supreet Singh Sethi	School of Engineering and Built Environment	A hydrologic analysis of Talbeudgera Creek catchment, Gold Coast Australia: Climate change effects	Hong Zhang
Fu Zhiyu	Cities Research Institute	Factors Affecting Flood Risk Assessment	Hong Zhang	
Zihao (Howie) Liao	City of Gold Coast	Evaluation and optimisation of hydraulic design options for the Gold Coast Highway, Flat Rock Creek crossing	Hong Zhang	
James Rutherford	Aurecon	Flood Modelling of the Grandchester Rail Portal	Hong Zhang	
Session 10 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.00am	Jeremy McGahey	Antero	Automated Short-Answer Filtering and Plagiarism Detection using Natural Language Processing Methods.	Hugo Espinosa
	Micaela Piacenza	School of Engineering and Built Environment		Hugo Espinosa
	Li Wei	ARC Research Hub	Automated Sugarcane Billet Detection and Quality Assessment System in Machine Vision	Hugo Espinosa
	Rawan Yousif	School of Engineering and Built Environment		Hugo Espinosa
	Amanjot (Aman) Singh	Solar Prime	Design and Installation of Solar Energy Systems	Hugo Espinosa
Joshua (Josh) Bradbrook	Mater Group	Planning, Development, and Testing of a Patient Management App for Mater Refugee Services	Hugo Espinosa	
Session 11 Link to session				
Time	Name	Partner	Title	Assessor
9.00 - 11.40am	Lachlan Vine	Superior walls and ceilings	Superior Walls and Ceiling Diffusion of Innovations: A comparison of BIM Technology and Conventional Methods in Tier 1 Subcontracting	Kelly Bertolaccini
	Tatum White	Icon Co	Understanding the effects of poor quality management and the cost impacts this has on Queensland construction projects, with an aim of preventing poor quality management	Kelly Bertolaccini
	Samuel Wilkinson	Shadforth	Behaviour of Retaining Walls Under Lateral Loading Induced by Soil Movement	Kelly Bertolaccini
	Ziqi Zhang	Pier & Pile Consulting Engineers	Onsite blade pile capacity and FEM simulation	Kelly Bertolaccini
	Zhiyu Zhang	School of Engineering and Built Environment	Decarbonization opportunities for civil construction earthwork and transportation activity	Kelly Bertolaccini
Zifan Zhu	Pier & Pile Consulting Engineers	capacity improvement of compressive loaded pile capacity with blade application	Kelly Bertolaccini	
Isis Marr	BHP	Investigating Accurate Standoff Locations Below Active Tip Heads Within BMA Open-Cut Coal Mines	Kelly Bertolaccini	
Clayton Seeto	Bureau Veritas	Design Verification of Mobile Elevating Work Platform to Australian Standards	Kelly Bertolaccini	
Session 12 Link to session				
Time	Name	Partner	Title	Assessor
11.00am - 1.40pm	Chenyu Bian	Pier & Pile Consulting Engineers	Research of enlarged pile end capacity for local residential building	Nick Cartwright
	Ahmad Kamal	School of Engineering and Built Environment	Analysing the Rainfall Erosivity in South East Queensland.	Nick Cartwright
	Tianli Ni	School of Engineering and Built Environment	Research and application of random wave	Nick Cartwright
	Dhruvi Pendor	School of Engineering and Built Environment	Exploiting the Occurrence and Management of PFAS Contamination in Australia: A Comparative Study with Global Perspectives	Nick Cartwright
	Devinder Singh	City of Gold Coast	Reuse of wastewater in construction	Nick Cartwright
Yifei Xiao	Pier & Pile Consulting Engineers	Numerical Simulation and onsite test of Motor Blade Pile Group	Nick Cartwright	
Christopher Zolezzi	Michael Bale & Associates	Optimisation of Stormwater Quality Treatment Systems	Nick Cartwright	
Francois Du Toit	Aurecon Group	Finite Element Modelling of Synthetic Mooring Line Snapback Failures	Nick Cartwright	
Session 13 Link to session				
Time	Name	Partner	Title	Assessor
11.00am - 1.20pm	Samuel (Sam) Dalton	Korea Maritime and Ocean University	Investigation of Geopolymer Concrete Behaviour With Partial Replacement of Glass Powder	Sanaul Chowdhury
	Ali Hassaan	School of Engineering and Built Environment	Mechanical Properties of Aluminium Alloy At Elevated Temperatures	Sanaul Chowdhury
	Bodhi James	Group 6	Analysis and Redesign of Patriot Campers' Production Facility For Improved Manufacture	Sanaul Chowdhury
	Zhongyuan Ren	ALCOA Australia and EnviroSand companies	Comparison of fly ash and thermal-pretreated red mud on their replacement of ground granulated blast furnace slag as aluminosilicate precursors for alkali-activated materials production	Sanaul Chowdhury
	Heath Sargeant	Korea Maritime and Ocean University	Experimental Study on the Strength Behaviour of Geopolymer Concrete using Recycled Glass Cullet with Ground Granulated Blast-Furnace Slag	Sanaul Chowdhury
Juncai Wang	ALCOA Australia and EnviroSand companies	Investigation on the role of thermal pretreatment in enhancing the mechanical performance of fly ash-red mud geopolymer composites	Sanaul Chowdhury	
.Mohammad Fahimuddin	GreenTec Consulting	Enhancing Quality Assurance Control by an assessment of Landfill Construction including Geomembrane system	Qin Li	

Session 14				
Time	Name	Partner	Title	Assessor
11.00am - 1.00pm	Nykalah Doyle Krystal Moore Minh Tam Nguyen	School of Engineering and Built Environment Tungsten Steel Structure Dai Dung Corporation	Tiny Homes, Temporary Accommodation for Homelessness Structural Design of Warehouse Cladding to Wind Actions: A comparison between 2011 and 2021 standards. Fibre reinforced concrete solutions: Prevention of cracks and reduction of construction costs	Shanmuganathan Gunalan Shanmuganathan Gunalan Shanmuganathan Gunalan
	Chenyang Zhang Haozhang Zheng Benjamin Browne	School of Engineering and Built Environment Department of Agriculture and Fisheries EDGE	Structural behaviour of differently assembled timber-steel composite connections subject to various atmosphere moisture content The Performance of Post-Tensioning in a Non-Cementitious Slab	Shanmuganathan Gunalan Shanmuganathan Gunalan Shanmuganathan Gunalan
Session 15				
Time	Name	Partner	Title	Assessor
11.00am - 1.20pm	Yashar Ghorbanoghli Joshua (Josh) Koning	School of Engineering and Built Environment School of Engineering and Built Environment	Investigating and Analyzing the Use of the Last Planner System (LPS) and Building Information Modeling (BIM) in Construction Projects Based on Project Management	Sherif Mostafa Sherif Mostafa
	Sheryar Raja Saba Shadvar Dikshant Shrestha Adam Christensen Darshan Praveen Lad	School of Engineering and Built Environment School of Engineering and Built Environment School of Engineering and Built Environment 5 Point Projects Amalgamated Group	Evaluation of risk and uncertainties during construction of large projects: Case studies of project construction delay. Performance Evaluation of Off-Grid Solar System for Critical Medical Instruments based on Project Management Evaluate The Implementation of Agile Project Management Strategy in Building Construction in Australia Project Management Processes Influence on Performance Outcomes Advancing and Promoting Health and Safety Management in Painting Industry: The Case of Amalgamated Group.	Sherif Mostafa Sherif Mostafa Sherif Mostafa Sherif Mostafa Sherif Mostafa
Session 16				
Time	Name	Partner	Title	Assessor
11.00am - 12.20pm	Wallace Elias Mohammed Ismail Predrag Zlatovic Joel Donnelly	School of Engineering and Built Environment Department of Agriculture and Fisheries ADaPT ADaPT	The design and performance analysis of a water-jet propulsion device Vibrational Serviceability of Long Span Timber Floor Evaluating the Effectiveness of 3D Printed Orthotics for Improving Gait Impact Tolerant Coupling for Hydrogen Pressure Vessels on Sea-Going Yachts	Shoujin Sun Shoujin Sun Shoujin Sun Shoujin Sun
Session 17				
Time	Name	Partner	Title	Assessor
11.00am - 12.40pm	Mazin Al Jadeedi Brendan Connolly Breezy Forrest Chiu Chi (Francis) Tsang	Department of Agriculture and Fisheries SCODY School of Engineering and Built Environment ADaPT	Developing technologies of fabric piece handling (pick and place) using robotic arm manipulators A Comparative Study: Hatch and Border Processing Parameter Effects on Ti6Al4V by Selective Laser Melting Advanced Manufacturing of Anatomical Bone Models	Peter Woodfield Peter Woodfield Peter Woodfield Peter Woodfield
Session 18				
Time	Name	Partner	Title	Assessor
11.00am - 12.00pm	Jessy Barber Wan Lum Isaac Timothy Mallett	School of Engineering and Built Environment Powerlink Cromarty	Structural Health Monitoring of the Griffith Footbridge Using LoRaWAN Technology Capacitor Can Replacement Investigation Cable-Driven Parallel Robot Simulation for Industrial Packing Automation	Stephen So Stephen So Stephen So
Session 19				
Time	Name	Partner	Title	Assessor
11.00am - 1.40pm	Mohammed Ali	UBS Unique Building Services	Streamlining cost estimation of water damaged properties Implementing and Tracking Greenstar and Sustainability Initiatives in a Build-to-Rent Development: A Case Study of Exhibition Quarter Residential One (EQ-R1)	Tingting Liu Tingting Liu
	Xavier Trovato Joseph Holt Samuel (Sam) Knuth Ella Callinan Hudson Makin Jordan Brunt Lachlan Box	Hutchinson Builders Alder Constructions School of Engineering and Built Environment Golding Holyoake by price McNab Richard Crookes Construction	Outcomes of Variations on Project Program and Budget (Thesis) BIM Proactive Construction Safety Management Thesis Sustainable Concrete Substitution in South East Queensland Urban Construction: Performance Assessment, Feasibility Analysis and Application Evaluation Acoustic Louvre Performance, Classification and Suitability as a Cladding Element	Tingting Liu Tingting Liu Tingting Liu Tingting Liu
Session 20				
Time	Name	Partner	Title	Assessor
11.00am - 12.00pm	Nathan Brennan Luke Gillies Cooper Woolley	Anglo Kinaroad ADaPT	Design and Development of an Alignment Tool for Use During Haul Truck Body Installation Design of an End Effector for Robotic Surfboard Manufacturing Exploring the Mechano-Acoustic Properties of Hyperelastic Silicones for Soft Tissue Replicas	Van Dau Van Dau Van Dau
Session 21				
Time	Name	Partner	Title	Assessor
11.00am - 1.40pm	Xi Chen Chao (Andy) Gao Yibo Gao Jaxon Lennox Yudi Liu	School of Engineering and Built Environment School of Engineering and Built Environment School of Engineering and Built Environment Mint Construct Cities Research Institute	Construction Management During Disasters Good Practice for Safety Management of Temporary Works in Construction Digital Earth Construction Project Initial Cost & Scheduling Management of Construction Projects	Ying Hong Ying Hong Ying Hong Ying Hong Ying Hong
	Michael Vukoja Jai Waters John James	Hutchinson Builders Department of Transport and Main Roads (TMR) BMD Constructions	An analysis on aluminium glazing and its effects on sustainability, cost and the supply chain within the Australian construction sector. Management of vehicle speeds through key koala habitat areas to reduce road related koala mortality rates Evaluation of BMD Quality Management System	Ying Hong Ying Hong Ying Hong